

# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

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ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: CONFIDENTIAL—NOT FOR PUBLICATION. :: ::

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**RECEIVED**

SEP 6 - 1930

PRESS RELATIONS DEPARTMENT  
G. W. JOHNSTONE

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No. 365

## HEARINGS ARE RESUMED

Hearings on applications for new stations and for modification of station licenses were resumed September 2nd by the Federal Radio Commission. Approximately 350 such cases are on the docket to be heard this Fall. This month's calendar lists 115 cases.

The new plan of having examiners conduct hearings was inaugurated with Ellis A. Yost, Chief Examiner, at the helm. Examiner Elmer W. Pratt took charge of the first case. After the hearings the examiners will brief the cases and make their report to the Commission for its consideration.

Under this procedure the Commission will have more time to devote to the study of important radio problems including careful consideration of new developments such as television and complicated communication problems.

The Commission has adopted a new program which is designed to enable the members to keep posted on all of the activities of the various divisions.

On Monday mornings the Commission will consider reports by the General Counsel, the Chief Engineer and The Secretary. On Tuesday morning applications on routine matters will be considered, and on Tuesday afternoons the Examiners' reports will be considered.

On Wednesday the Commission will be free to take up emergency matters and to confer with callers. On Thursday, new and miscellaneous business will be taken up and on Friday the schedule of Tuesday will be duplicated.

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## STOKOWSKI HAS MYSTERY INVENTION

Leopold Stokowski, conductor of the Philadelphia Orchestra, has perfected a mysterious new device which is said to remedy tone deficiencies in broadcasting. The device will be given its initial try-out on Sunday, Oct. 12, during the first of a series of nationwide radio concerts by the Philadelphia Orchestra, sponsored by the Philadelphia Storage Battery Company, makers of Philco radios.

For nearly a score of years an outstanding figure in the world of music, Stokowski will take a leading place in the field of radio development if the apparatus he has designed accomplishes all that is claimed for it. No details of the invention have been made public.

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## UNIT MEASUREMENT IS ASSAILED

The quota figures on the distribution of broadcasting facilities, adopted recently by the Federal Radio Commission on the basis of a unit measurement, are assailed in a brief filed September 2nd in the District Court of Appeals over the Commission's refusal to issue a construction permit for a 1,000 watts station on 550 kilocycles at Abilene, Texas.

Abilene, it is pointed out, is a city of 32,000 population, located in western Texas, in a section principally devoted to stock raising and agriculture and, as such, is the largest city and the principal trade and commercial center for a relatively large and scattered population of approximately 250,000 people.

The appellant does not contend for a new interpretation of "public interest, convenience or necessity", but states that, since there is not now any sufficient regular service in west Texas, there is a public and economic demand, and if he is in a position, financially, technically and otherwise, to render that service, and the service will not interfere with other stations, there being a frequency assignment legally and technically available to him, he is in law entitled to his construction permit.

The decision of the Commission, it is explained, relied upon the construction of the Davis amendment. These findings, it is claimed, were based upon an "abtruse mathematical demonstration, which, viewed by itself, is utterly incomprehensible."

In that amendment, it is pointed out, the particular facilities to be dealt with in the distribution of frequencies among zones were (1) licenses, (2) frequencies, (3) hours of operation, and (4) power. The means of determining the "quota figures" used by the Commission are claimed to "possess certain elements of mystery, because in no rule, regulation, or general order have they been definitely adopted by the Commission, nor have the methods of their calculation been made entirely public."

It is alleged that these figures disregard all the facilities above mentioned. A newer system of reckoning, adopted in June, abandoned the former quota idea, it is alleged. This system, it is contended, is not based on "assignments", as are the figures, nor on frequencies, licenses, power or hours, but upon a new factor known as "units."

These figures, it is said, "require but the briefest examination to discover that they bear no relationship to equalization, but are nugatory in fact."

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## RADIOTELEPHONE TO SIAM

Radiotelephone communication with Bangkok, Siam, and with several important Japanese cities will be inaugurated shortly by the German Federal Postal Ministry, according to a dispatch received in the Department of Commerce from Assistant Trade Commissioner A. Douglas Cook at Berlin.

The following list shows those countries with whom Germany now has radio telephonic communication, as well as the date of opening of the services: Oct. 2, 1928, United States, Canada, Cuba, Mexico - cable to London, thence radio; Oct. 12, 1928, Argentina - radio direct; Dec. 27, 1929, Dutch East Indies - radio direct; March 16, 1930, Brazil - radio direct; May 19, 1930, Australia - cable to London, thence radio; August 1, 1930, French Indo-China - cable to Paris, thence radio.

Germany maintains cable telephonic service with all European countries except Turkey, Greece, Rumania, Bulgaria and Albania.

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## BRITISH COMMUNICATION RECEIPTS DROP OFF

A decline in traffic receipts for the first half of the current year is shown in the estimates just released by Imperial & International Communications (ltd.), the communications operating company formed by the British cable-radio merger. According to the announced returns of this company, as forwarded by Trade Commissioner William L. Kilcoin, London, the estimated receipts for the six months amounted to 2,807,723 pounds - a drop of 300,426 pounds, or 9.7 per cent, as compared with the similar period of 1929.

The fall in traffic has been accentuated as the year advanced, dropping from 519,485 Pounds in January (or 8.2 per cent less than in January, 1929) to 460,052 Pounds in February (8.2 per cent less than in February, 1929), to 492,316 Pounds in March (8.6 per cent less than in March, 1929), to 456,120 in April (11.6 per cent less than in April, 1929), to 466,279 Pounds in May (7.2 per cent less than in May, 1929), to 413,471 Pounds in June (14.6 per cent less than in June, 1929). In view of the general trade depression, this decline was in a manner, expected locally.

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## LAFOUNT LAUDS POLICE RADIO

Declaring that police radio equipment has passed the experimental stage, Radio Commissioner Harold A. Lafount in a statement September 3 said that it is now recognized as a necessary adjunct to any well equipped Police Department.

"Practically all of the larger cities have installed radio systems for their police forces", he said, "and in all instances it has been found that such a system is indispensable and is the best method police have of getting information from the stations to the men as they patrol the cities in automobiles.

"During the year 1929 in Detroit, where radio is used by the police, there was a total of 22,598 messages sent out to radio-equipped cars. Of that number, 8,288 were actual emergencies, and as a result of these messages 1,325 arrests were made, very often the criminal being apprehended at the scene of his crime. The record shows these arrests have been made on an average of less than two minutes each."

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## COLLEGE TO GIVE RADIO CREDITS

College credit will be given for a series of musical radio programs to be sponsored by the Central Missouri State Teachers College at Warrensburg, Mo., during the Fall and Winter, according to information received by Armstrong Perry, of the Office of Education.

The series of programs, to be known as the "Music Appreciation Hour", will be broadcast over Station WOS, Jefferson City, Mo., every Wednesday night from October 8th to March 11th, inclusive, with the exception of November 26th, December 24th and December 31st.

The programs will be devoted to various types of music, such as Negro spirituals, operas, symphonies, folk songs of many nations, and religious music. They are to be arranged by Paul R. Utt, Director of Music at the college. The course gives one and one-quarter hours' credit and is listed in the catalogue as Music3B.

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: BUSINESS LETTER BRIEFS :  
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Combination broadcast and short wave radio receivers are predicted for production this Fall and Winter. At least one manufacturer is said to have scheduled such a receiver, and others are expected to follow his example.

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Decisions in the 31 cases involving radio law, now pending in the United States Supreme Court, the Court of Appeals of the District of Columbia, and the United States District Courts are expected to serve as an outline for the policy of the Federal Radio Commission in disposing of other cases around which the litigation revolves, according to Col. Thad H. Grown, General Counsel.

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An electrically charged aerial, caused by a short circuit in the receiving set, seriously burned Mrs. Ernest Waymire and her 3-year-old child, Norma Jean, at Brazil, Ind., recently. The child had picked up a loose end of the aerial, and her mother had attempted to rescue her.

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The \$5,000,000 Ward liner, "Morro Castle" newest pride of the American Merchant Marine, has been wired with the most advanced radio apparatus by the RCA Victor Company. A central receiving station of the newest super-heterodyne type, together with an electric phonograph, has been installed on one of the decks and is able to pick up programs from numerous stations for distribution throughout the vessel. Electro-dynamic reproducers are concealed in the smoking room, the main salon, and the tourists' lounge.

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Silver-Marshall, Inc., licensee of RCA, has announced a superheterodyne receiver that is said to be the result of seven years of manufacturing and engineering experience. It is a nine tube set, employing five '24 type screen-grid tubes, one '27 oscillator tube, two '45 power tubes, and an '80 rectifier, and has a dynamic speaker.

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## BRITISH APPROVE MARCONI PLANE RADIO

The new Marconi radio set type AD6m has been approved for use in civil aircraft by the British Air Ministry, according to British information received by the Communications Section, Department of Commerce.

The set incorporates a transmitter of 150 watts power suitable for the transmission of both telegraph and telephone signals. The improvements include a new type of receiver which is particularly selective and stable, employing a screened-grid high-frequency amplifying valve of the latest type, a detector valve operating on the grid-leak method of rectification and provided with capacity reaction, and a transformer-coupled low-frequency magnifying valve; for maximum efficiency of high-frequency selection, an aperiodic aerial system is coupled to a closed tuning circuit. The model is adjustable to any wavelength between the approximate limits of 550 and 1550 meters on machines having normal electrical capacity.

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## APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

August 28 - WAAM, Inc., Port Newark, Newark, N. J., C. P. to change equipment and increase power from 2 KW day and 1 KW night to 2½ KW day and 1 KW night, on 1250 kc; WCAH, Commercial Radio Service Co., Columbus, Ohio, modification of license to increase power from 500 W. to 1 KW, day and 500 W. night, on 1430 kc.; WHAT, Independence Broadcasting Co., Philadelphia, Pennsylvania, C. P. to install new equipment, change frequency from 1310 kc. to 610 kc., increase power from 100 w. to 500 w., and operate part time, station now shares with WFKD; KONO, Mission Broadcasting Company, San Antonio, Texas, request for authority to install automatic frequency control; KTAP, Alamo Broadcasting Co., Inc., San Antonio, Texas, license to cover C. P. issued 6/30/30 to rebuild transmitter and move transmitter locally; WDBO, Orlando Broadcasting Co., Inc., Orlando, Florida, C. P. to make changes in equipment and increase modulation; KFSD, Airfan Radio Corporation, Ltd., San Diego, Calif., request for authority to install automatic frequency control.

August 29 - WLBW, Radio-Wire Program Corporation of America, Oil City, Pennsylvania, amendment filed to C. P. to request authority to erect an additional transmitter at Nicholson Heights, Erie, Penn., to synchronize with present transmitter, experimentally, instead of to move present transmitter to just outside of Oil City, Penna.; KFIO, Spokane Broadcasting Corporation, Spokane, Wash., license to cover C. P. issued 7/18/30, to move studio and transmitter locally; O. O. Black, Approximate location: 3500 16th St., Birmingham, Alabama, amendment made to C. P. for new station to request 1010 kc., instead of 1200 kc., with 500 watts power day and 250 w. night.

August 30 - WOPI, Radiophone Broadcasting Station WOPI, Inc., Bristol, Tenn., license to cover C. P. issued 6/2/30, to install new equipment; Utah Poultry Producers' Cooperative Association, Clyde C. Edmunds, Manager, Salt Lake City, Utah, C. P. to erect a new station to use 1200 kc., 100 w. and unlimited hours; Kirby Lee Horton & Leo Colvin McConnell, Clovis, New Mexico, C. P. to erect a new station to use 1110 kc., 7½ watts, and hours up to 8:30 P. M.

September 2 - WHDL, Tupper Lake Broadcasting Co., Inc., Tupper Lake, N. Y., amendment filed to C. P. application to request increase in power from 10w. to 100 w. and unlimited hours in the name of Tupper Lake Broadcasting Co., Inc., instead of George F. Bissell; WDAG, National Radio & Broadcasting Corporation, Amarillo, Texas (C. P. for West of Amarillo), modification of C. P. to request an extension of time on C. P. to September 27, 1930; KFYR, Meyer Broadcasting Company, Bismarck, North Dakota, modification of C. P. to request an extension of time on C. P. to October 15, 1930; Marion Carter Greear, Orlando, Florida, C. P. to erect a new station to use 1420 kc., 10 watts, and daytime hours with 4 evening hours on Sundays; First Baptist Church, by R. S. Beal, Pastor, Tucson, Arizona, C. P. to erect a new station to use 1030 kc. 15 W., and unlimited hours.

September 3 - WSBT, The South Bend Tribune, South Bend, Indiana, C. P. to move transmitter to 4½ miles west on U. S. 20, South Bend, Ind., install new equipment, and operate more hours, station shares with WFBM on 1230 kc.; KSMR, Santa Maria Valley Railroad Co., Santa Maria, California, request for authority to voluntarily assign license to the Santa Maria Radio; KSL, Radio Service Corp. of Utah, West of Salt Lake City, Utah, C. P. to move main studio locally, install a new transmitter, and increase power from 5 KW to 50 KW on 1130 kc., unlimited.

#### Applications Other Than Broadcasting

W9XAM, Elgin National Watch Co., Elgin, Ill., renewal of experimental license for 4795 kc., 500 watts; WLOXAC, Atlantic Broadcasting Corp., New York, N. Y., license for experimental service on 2473 kc., 7½ watts for special use as rebroadcast pick up transmitter at various points subject to approval of F.R.C., feed chain; KJV, Radiomarine Corp. of America, Baytown, Texas, modification of coastal license for change in hours of operation from 8 A. M. to 5 P. M. local standard time; WPA, Radiomarine Corp. of America, Port Arthur, Texas, modification of marine relay license to communicate with Galveston and Baytown, Texas; KKB, Globe Wireless, Ltd., Sherwood, Oregon, license to cover C.P. for 500, 460 kc., 1500 watts, coastal service; WSXM, University of California, Berkeley, Calif., renewal of experimental license for 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 1 KW; W2XB0, United Research Corp, Long Island, N. Y., modification of C. P. for extension of completion date to 6/30/30; Pan American Airways, Inc.; KHFEV, Airplane NC-147-H, KHFHS, Airplane NC-812-H,



and KHFFU, Airplane NC-811-H, renewal of licenses for aircraft on 333, 414, 500, 2662, 3070, 3106, 5690, 8015 kc., 12 watts.

September 2 - KPS, Radiomarine Corp. of America, Lazy Bay, Alaska, license to cover C. P. for 500, 425, 222, 252, 268 kc., 200 watts LP & PG service; KFA, Radiomarine Corp. of America, Annette Island, Alaska, license to cover C. P. for 500, 425, 256, 274 kc., 200 watts LP & PG service; KWR, Radiomarine Corp. of America, Port Moller, Alaska, license to cover C. P. for 500, 425, 222, 252 kc., 200 watts, LP & PG service; KGTC, Aeronautical Radio, Inc., outside of City limits, Kansas City, Mo., C. P. for new transmitter on 3070, 3082, 5510, 5540 kc., 400 watts; also, C. P. for new transmitter on 393, 400, 414, 420 kc., 400 watts; also, C. P. for new transmitter on 3460, 6350, 6365, 3458, 8015, 12180 kc., 400 watts; City of Oklahoma, Oklahoma City, Okla., C. P. for new station on 2470 kc., 75 watts, limited commercial service; W2XDA, Atlantic Broadcasting Corp., portable, N.Y.C., license for 1544 kc., 50 watts, to be used for special news events, subject to approval of Commission.

September 3 - W3XAJ, RCA Victor Co., Inc., Camden, N.J., license to cover C. P. for 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 250 watts, experimental service; Loren W. Mendell, Aircraft R-331-E, "Pride of Hollywood", new license for aircraft on 3106 kc., 50 watts (to be used for endurance flight); KFO, Boeing Air Transport, Inc., Oakland, Calif., assignment of license to Aeronautical Radio, Inc.; KGX, Globe Wireless, Ltd., Los Angeles, Calif., license to cover C. P. for 7430, 7437.5, 7445, 9410, 10930, 14860, 14875, 14890, 18820, 22660 kc., 1500 watts; WQY, RCA Communications, Inc., Rocky Point, N. Y., modification of license for additional transmitter on 20100 kc., 80 KW, limited public service; WKO, RCA Communications, Inc., Rocky Point, N. Y., modification of license for additional transmitter on 15970 kc., 80 KW, limited public service; WSL, Mackay Radio & Telegraph Co., Sayville, N. Y., license for marine relay service on 109, 8670, 13060 kc., 30 KW, 75 KW, 5 KW (4 transmitters); W2XBS, National Broadcasting Co., Inc., portable, New York, N. Y., modification of license for change in frequency from 2100 to 2200 kc., to 2000 to 2100 kc.

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#### DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission granted the following applications on August 29th:

WEMC, Emmanuel Missionary College, Berrien Springs, Mich., consent to voluntary assignment of license to WKZO, Inc.; KTUE, Harris County Broadcast Co., Houston, Texas, C. P. to move studio from Texas State Hotel to Fannin and Rusk Sts., Houston, and transmitter from Texas and Travis Sts., to Main and Rusk Sts., Houston; and install new transmitter; KWWG, City of Brownsville, Chamber of Commerce (G. C. Richardson, Manager), Brownsville, Texas, consent

voluntary assignment of license to the Brownsville Herald Publishing Co.; WFBL, Onondaga Radio Broadcasting Corp., Syracuse, N. Y., modification of license to change location of transmitter from Minoa to Collamer, N. Y., extend commencement date, and extend completion date to Dec. 1, 1930; WNRC, Wayne M. Nelson, Greensboro, N. C., consent to voluntary assignment of license to North Carolina Broadcasting Co.; KELW, Union Bank & Trust Co., of Los Angeles, (guardian of Estate of Earl L. White), Burbank, Cal., involuntary assignment of license from Earl L. White to Union Bank and Trust Co. of Los Angeles; WOD, Station WOD, Beaumont, Texas, extension of license to October 31, 1930; WLAP, American Broadcasting Corp. of Ky., Louisville, Ky., license to cover C. P. 1200 kc., 250 watts day and 100 watts night, unlimited time; KGOV, Radiomarine Corp. of America, "Morro Castle", New York, temporary authority to operate pending receipt of application Calling 143, 500 kc., A1 emission; A1, A2 and B emission. Working 151, 153, 157, 159, 160, 400, 410, 425, 454, 468 kc., A1 and A2 emission, radio compass 375 kc., 750 watts main transmitter, 50 watts auxiliary transmitter.

Also, Interstate Geophysical Exploration Co., Portable, La. and Tex., 6 new C. P. 8s on frequencies 1600, 1652, 1664, 1680, 1704 kc., 10 watts; W8XL, General Motors Radio Corp., Dayton, Ohio, modification of C. P. covering extension of time to Oct. 2, 1930; KNW, Mackay Radio & Telegraph Co., Palo Alto, Cal., renewal of license for public point to point service, frequency 52 as listed on application 2 transmitters 5 KW each; A1 and A2 emission, to communicate with Hawaiian Islands, Midway Island, Manila and other stations with which Mackay Co. is licensed to communicate with, after Dec. 31st, exact frequency must be specified; KNN, Same Co., near Honolulu, T. H., renewal of license for point to point service; KSM, Globe Wireless, Ltd., Los Angeles, Cal., modification of C. P. extending completion date to Dec. 31, 1930; WAA, Radio Corp. of America, Ohio Co., Detour, Mich., modification of C. P. to change hours of operation, also modification of license to cover same.

Also, For New Stations: Don Lee, Inc., Los Angeles, Cal., C. P. amateur band frequencies, 500 w.; Radiomarine Corp. of America, portable in San Francisco Bay & vicinity, C. P. 375 kc., 10 watts, to be used for transmissions in connection with calibration of direction finders, at such times and under such conditions as will cause no interference with operation of other stations; American Telephone and Telegraph Co., near Sacramento, Cal., C. P. 6755, 9170, 9870, 14590, 19830, 31060 kc., 20 KW; Elgin National Watch Co., Elgin, Ill., C. P. in amateur band, 500 w.; Westinghouse Electric and Manufacturing Co., Saxonburg, Pa., C. P. for experimental experiment to operate on KDKA's frequency 980 kc., with varying power of from 50 to 400 KW, between hours of 1 and 6 A. M. daily, only; Bell Telephone Laboratories, Inc., portable on truck to be used principally in New Jersey, C. P. for portable transmitter frequencies 1604, 2398, 3256, 4795, 6425 kc., 400 watts; Department of Airport, City of Cleveland, Ohio, C. P. for 90 days transmitter to be operated only when airplane is actually landing under its guidance and watch be maintained on 3106 kc., during all periods of operation of transmitter 10 watts; Sun Oil Co., Dallas, Texas, C. P. 1604 kc., 1 KW; City of Portland, Oregon, Bureau of Police, C. P. for 10 days, frequency 2452 kc., 25 watts power for experiments.

## Applications Set For Hearing

For New Stations: Corner Drug Store, Inc., Carlsbad, N.M., asks for C. P. 1420 kc., 25 watts daytime; A. B. Harris & Helen Anderson, d/b as Estes-Park Broadcasting Co., Estes Park, Colo., asks for C. P. 1370 kc., 100 watts, unlimited time; R. S. McEwan, Clovis, N. M., asks for C. P. 1000 kc., 100 watts, daytime; Oliver W. Frey, d/b as Frey Motor Service, Cheyenne, Wyoming, asks for C. P. 1440 kc., 100 watts, 8 hrs. daily (day and night); Shermon D. Bracken, Portales, N. M., asks for C. P. 960 kc., 10 watts, 3 hrs. day and 1 hr. night, also portable to test for location; George Wm. Sullivan, Hardin, Mont., asks for C. P. 600 kc., 10 watts, Sat. and Sunday; C. M. Schaap, Ft. Collins, Colo., asks for C. P. 1370 kc., 15 watts, daytime; J. G. Burbank and Jno. A. Dalton, d/b as Burbank & Dalton, Rocky Springs, Wyo., asks for C. P. 1450 kc., 100 watts, unlimited time; Montgomery Broadcasting Co., Inc., Montgomery, Ala., asks for C. P. 1370 kc., 100 watts, unlimited time.

Also, For New Stations: Julian E. Roberts, Owner, The Key Broadcasting Co., Sterline, Colo., asks for C. P. 1220 kc., 150 watts, week days 6 to 11 A. M., 3:30 to 7 P. M., Sundays to 3 to 7 P. M.; Fred W. Christian, Jr., Portable in 6th Dist., asks for C. P. experimental frequencies 1 KW; Lakeland Broadcasting Co., Lakeland, Fla., asks for C. P. 1310 kc., 100 watts, unlimited time; also to use portable; E. M. Pace, d/b as Pace's Radio Service, Vicksburg, Miss., asks for C. P. 1420 kc., 10 watts, daytime; George J. Ber and Hillman Bailey, d/b as Ber-Bailey Broadcasting Co., Rayne, La., asks for C. P. 1120 kc., 5 watts, daytime; also to use portable; Dr. James H. Atherton, Guthrie, Okla., asks for C. P. 600 kc., 75 watts, unlimited time; Lynn Dickerson & C. A. Nietert, d/b as The Edison Shop, Brownsville, Texas, asks for C. P. 1330 kc., 15 watts, unlimited time; Lester J. Berry, Newark, Ohio, asks for C. P. 1240 kc., 50 watts, unlimited time; The State Journal Co., Lansing, Mich., asks for C. P. 880 kc., 100 watts, unlimited time; Edwin W. Kruse, New Castle, Pa., asks for C. P. 1210 kc., 50 watts, 9 to 12 hours daily; WBOK, Inc., Kalamazoo, Mich., asks for C. P. 1450 kc., 1 KW, unlimited time; Claude Lee Umberger, Harlan, Ky., asks for C. P. 1420 kc., 100 watts, daytime.

Also, WMAN, The Columbus Broadcasting Corp., Columbus, O., asks for modification of license to change frequency from 1210 to 1310 kc., and operate on this frequency experimentally; KELW, Union Bank & Trust Co. of Los Angeles, Burbank, Cal., requests consent to voluntary assignment of license to California Broadcasting Co., Ltd.; KTM, Pickwick Broadcasting Corp., Los Angeles, Cal., asks for modification of license to change hours of operation from sharing with KELW to unlimited; WRJN, Racine Broadcasting Corp., Racine, Wis., asks for C. P. to install new equipment with maximum power of 250 watts, and increase in daytime power from 100 to 250 watts, 100 w. night; WCLO, WCLO Radio Corp., Janesville, Wis., asks for C. P. to install new equipment with maximum power of 250 watts, and increase power from 100 to 250 w. day and 100 w. night; KLGB, Chas. Lel Lintzenich, Blytheville, Ark., asks for modification of license to increase power from 50 to 100 w. and operate unlimited hours.

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# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: CONFIDENTIAL—NOT FOR PUBLICATION. :: ::

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PRESS RELATIONS DEPARTMENT  
G. W. JOHNSTONE

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No. 365

BRIEF FILED IN KOMO-KJR CASE

A lengthy brief of arguments as to why the Federal Radio Commission should grant the application of Fisher's Blend Station, Inc., of Seattle, Wash., for permission to operate KOMO on 970 kilocycles with 15,000 watts has just been filed with the Commission by Littlepage & Littlepage, Washington attorneys, and Donald G. Graham, of Seattle.

The original application of KOMO was granted by the Commission last Fall despite the objections of KJR, of Seattle, which operates on the same frequency with 5,000 watts. KJR appealed, however, and obtained a Stay Order. By consent of the counsel of both stations, the appeal and stay order were dismissed and a rehearing was held at Seattle by Judge E. O. Sykes on July 10-14. The Commission has not yet announced its decision.

The document takes up the comparative financial standing, public service, and programs of the respective stations and contends that KOMO is superior in every particular.

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USE RADIO SETS IN U. S. FOREST

Nine portable radio sets weighing, with batteries, about 50 pounds each, are being tried out this Summer on the Columbia National Forest, Wash., as a means of keeping trail-construction camps in communication with forest headquarters.

Back of this experiment is nearly three years' study by D. L. Beatty, of the Missoula, Mont., office of the Forest Service, of the possibilities of radio as a means of forest protection.

Because trail-construction crews move camp frequently they are often beyond the reach of telephones when needed for emergency duty on the fire line. These portable radio sets, light enough to be packed on a horse, promise important service in making trail-construction crews and other detached units readily available when trained fire fighters are needed.

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## AIRCRAFT RADIO REGULATIONS PROPOSED

Regulations covering the type, installation, and operation of radio and auxiliary communication equipment to be used in conjunction with licensed aircraft have been proposed by the Aeronautics Branch of the Department of Commerce.

They will be considered at a conference of representatives of the industry with officials of the branch in Washington the latter part of this month.

Minimum requirements for aircraft engine ignition shielding equipment and for installation are stated in the proposed draft.

Under the regulations, manufacturers of radio equipment and apparatus auxiliary to radio in quantities and of exact similarity may, at their own option, make application for an approved-type certificate for their products. An approved-type certificate may be issued upon receipt of a properly executed application and a finding by the Department that the apparatus successfully meets the minimum requirements of the code.

The installation of approved-type radio and auxiliary equipment shall successfully meet the minimum requirements as to installation, and no licensed aircraft shall be flown so equipped until the installation has been inspected and approved by an inspector for the Department of Commerce.

The current "Air Commerce Bulletin" carries the text of the regulations in full. This may be obtained from the Department of Commerce, Aeronautics Branch.

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## WBEN RADIO STAFF APPOINTED

Six members of the Buffalo Evening News staff have been assigned to the daily's new radio station, WBEN, by A. H. Kirchhofer, Managing Editor. The station will start broadcasting about September 1st.

W. Nelson Wilkinson, Financial Editor prior to his appointment to WBEN, will be director of the broadcasting station. Clifford M. Taylor, of the Advertising Department, has been appointed manager of the commercial broadcast department. Roy W. Nagle prominent in Buffalo sales and advertising work, who started his career in 1911 as a member of the staff of the Buffalo Courier will be a member of Mr. Taylor's department. William G. Cook

of the editorial staff, formerly announcer and program director for one of the Buffalo radio stations, has been assigned to WBEN as special announcer. Merwin C. Morrison, staff lecturer, also will be a special announcer. David E. Peugeot, Jr., of the promotion department, also has been assigned to the station's staff.

The studios of WBEN will be located on the 18th floor of Hotel Statler.

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### BRITISH THEATERS SEEK TELEVISION

The following report on the progress of television in Great Britain, especially for installation in the theaters, has just been made by the American Trade Commissioner, George R. Canty, to the Department of Commerce:

"The advent of television is being awaited with interest by certain interests in Great Britain, and it is expected to make much progress in that country in the near future. It is reported that a London West End theater has contracted for the installation of a television set, the wiring to be done by the Baird Co., which is perfecting and exploiting the Baird television system.

"It may be noted that the first set is to be installed in a legitimate theater and not in a motion-picture theater. Apparently, it is felt in legitimate theater circles that the broadcasting of stage plays will be an excellent asset for the theater at a period when it has so much to suffer from screen competition.

"Officials of the Baird Co. are reported to have stated that over 20 offers had been received by their concern for the installation of sets in theaters and motion-picture theaters and that the sums offered would have been more than sufficient to justify installation of apparatus. These offers have, however, been declined, as the Baird Co. intended to adhere to its original plan of running a short season in the one theater that is to be wired and then withdrawing the apparatus for some months in order to allow technical improvements to be made.

"One of the improvements under consideration is a bigger screen. At present the Baird Co. has an arrangement with the B.B.C. (British Broadcasting Corporation) for the broadcasting of their subjects. The B.B.C. allows it three and a half hours a week in which to develop their invention, leaving entirely to the Baird Co. the choice of subjects to be broadcast or the decision as to the manner in which this time is to be employed.

"A further indication of the progress made in Great Britain is the fact that a television society has just been registered in London as a company limited by guaranty without share capital. It is to promote information on television and other scientific subjects by lectures and discussions.

"It is evident that further development of television depends on the possibility of perfecting the system now in use, but there is sufficient public interest to insure important commercial applications as soon as technical conditions make this practical, as witnessed by the offers of London theaters, mentioned above. It would seem that developments on these lines in Great Britain need very careful watching."

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#### RADIO NEWS PERMITS GRANTED

The fifth construction permit was granted the American News Radio on Sept. 5 by the Federal Radio Commission for operation of a radio telegraph service on a low frequency to be used by receiving printers at Denver, Colorado.

The corporation, established in 1922, is controlled by William Randolph Hearst, but the system, if placed in operation on regular news service schedules, will be available to all press associations, according to W. G. H. Finch, developer and secretary of the organization.

Stations have already been installed at New York, Chicago, Atlanta, and San Francisco. Each sending station is capable of serving a zone of 250 to 500 miles. The transmitting apparatus is to be hooked directly to press association main trunk wires from New York to the Pacific Coast and to the South, and these wires will automatically operate the sending device. This in turn will throw out radio signals to be intercepted by the individual receiving sets in the newspaper offices that have installed the appropriate receiving painters.

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#### TWO BIG RMA SHOWS PLANNED

Two of the biggest radio shows ever held are planned this Fall by the Radio Manufacturers' Show Association despite the business depression. The Seventh Annual Radio World's Fair will be held at the new Madison Square Garden, New York City on Sept. 22-27, while the Ninth Annual Chicago Radio Show will be held at the Coliseum on October 20-26.

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: BUSINESS LETTER BRIEFS :  
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The radio is bringing the Indians who live in pueblos a broader vision and is enabling the youngsters to learn to understand and speak English correctly, Commissioner Harold A. Lafount said in a statement of his findings in the Western States.

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Says Alfred H. Grebe, pioneer in radio research, broadcasting, and manufacturing: "With a decade, through higher development of aviation and radio, an airplane will encircle the earth and the voices as well as the code messages of the pilots will be carried to every country and there is a probability, too, that millions of people may see the speaker through television direct from the craft in flight, even though thousands of miles away."

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The connection of one of the members of the Board of Public Utility Commissioners, Harry Bacharach, with the Atlantic Broadcasting Company, subsidiary of the Columbia System, is "too mixed to permit him to give impartial consideration to the company's application for permission to locate a 50,000 watt station in Passaic County, N. J.," it is asserted in a brief filed September 5th with the Board by Attorney General Duane E. Minard.

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Radio broadcasting in Czechoslovakia is controlled by the government, no field being left for private enterprise, according to the Department of Commerce. Six stations are now in operation. The seventh and most powerful one is being constructed at Cesky Brod and is expected to permit practically everyone in the republic to listen to its programs on crystal sets.

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### HARBORD IN POLITICAL ARENA

The following is from "Dial Flashes" in the Washington Post by Robert D. Heintz:

"The selection of Gen. James G. Harbord, Chairman of the New York County Republican Advisory Committee, to make a speech in New York attacking Tammany and, indirectly, former Governor Al Smith, the 1928 Presidential aspirant, brings with it the suggestion that the General himself may be a dark horse Presidential or Vice-Presidential possibility in case President Hoover does not desire a second term."

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## SENATOR REED MONOPOLY SPEECH RECORDS DISTRIBUTED

One hundred and eighteen stations are expected to broadcast a record of the speech of Former Senator James A. Reed on the "March of Monopoly" and the Radio Trust, according to Oswald F. Schuette, Executive Secretary of the Radio Protective Association. The broadcast is expected to be the largest "hook-up" of its kind that has ever been made.

When Former Senator Reed broadcast his monopoly speech last summer, an SOS closed down the Atlantic Coast stations. The SOS came at the moment when Senator Reed had reached the section of his speech devoted to the so-called Radio Trust. A record was thereupon made of this section of his speech by the Radio Protective Association and offered to independent broadcasting stations throughout the country.

According to Mr. Schuette, the requests for the record came from forty-one States, from New Hampshire to California, as well as from Alaska and Hawaii. The largest number of requests came from Texas where nine stations are broadcasting the address. Seven responses came from Washington, Pennsylvania, and Illinois; five each from Indiana and Ohio, and four each from Florida, Iowa, Michigan and Wisconsin.

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## SUE ON RADIO PATENTS

In two suits which were filed September 6th in New Haven, Conn., in the Federal Court, Majestic Distributors, Inc., is alleged to have infringed on patent rights in the manufacture of radio and vacuum tubes by the Radio Corporation of America, the American Telephone and Telegraph Company and the General Electric Company.

The bill of complaint states that all of the officers of the defendant corporation are officers or directions of the Grigsby-Grunow Company, of Chicago, which agreed on October 3, 1929, to pay \$60,000 for past infringement of rights of the Radio Corporation.

Temporary and permanent injunctions restraining the defendant from continuing to manufacture and sell the tubes in question are asked for.

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## STATION MANAGER SEEKS POSITION

There is available on short notice, a man who has had four and a half years' experience in radio work. He is 27; a university graduate. He has had two years' experience as Manager of a 1000 watt Middle Western radio station - the largest in the State. He built up the programs of this station so that it became the most popular in the State from the viewpoint of listeners. He built up the business so that from a great loss, it showed a pleasing profit. He has had four and a half years' experience as radio editor (the last two of which he was also manager of the radio station) of the State's largest newspaper.

He can capably manage and direct the business of a station. He knows music, artists. He can develop, build and take charge of producing successful commercial and sustaining programs. He can write - continuities, news, publicity. He has a knowledge of the likes and dislikes of listeners, gained through years of contact with the radio public.

If you want to know more about him, write R. D. Heinl, 405 Insurance Building, Washington, D. C.

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## ATWATER KENT ADDS MANY EMPLOYEES DAILY

The Atwater Kent Manufacturing Company, manufacturers of radios, is adding hundreds of employees to its force daily, according to an announcement by the company.

It was stated that the demand for new receivers indicates a present buying power surpassing that of a year ago. The announcement said:

"Since the introduction of the new Atwater Kent line one month ago, the demand has been so much greater than was anticipated that the factory is finding it difficult to keep pace with orders.

"Production now approximates 4000 sets a day, and the company's schedule calls for still further increases."

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HEARINGS SCHEDULED BY RADIO COMMISSION

Monday, September 22: - WWJ, The Evening News Association, Detroit, Michigan, C. P.; WRVA, Larus & Bro. Co., Inc., Richmond, Va., C. P.; WHAS, The Courier-Journal Co. & The Louisville Times Co., Louisville, Ky., C. P.; WCAU, Universal Broadcasting Co., Philadelphia, Pa., C. P. - All the above are applications from the 2nd Zone for 50 KW Power.

Broadcasting - KWKH, Heool World Broadcasting Corp., Shreveport, La., modification of license and C. P.; WDSU, Joseph H. Uhalt (2 applications), New Orleans, La., C. P. and modification of license; For New Stations: Veterans of Foreign Wars, Universal City, Cal., C. P. 850 kc., 1 KW, unlimited time; William Harrison Callender, Deadwood, South Dakota, C. P., 850 kc., 25 watts, daytime hours.

Tuesday, September 23: WISN, Evening Wisconsin Co., Milwaukee, Wis., modification of license, 1120 kc., 250 watts, full time; For New Stations: Rupert C. Wright, Paragould, Ark., C. P., 1310 kc., 50 watts, unlimited time; Robert L. Gay, Smackover, Ark., C. P., 1500 kc., 15 watts, 1 hour daily; E. R. Bennett, El Dorado, Ark. (applicant has indicated desire to be heard), C. P., 1200 kc., 20 watts, daytime hours only; Business Men's Club, McGehee, Ark., C. P. 1310 kc., 100 watts, 5 hours daily; G. J. Bensberg, Bensberg's Music Shop, El Dorado, Ark., 1500 kc., 100 watts, daytime hours; T. E. Story, Lepanto, Ark., C. P. 1310 kc., daytime hours, 7½ watts; Agricultural & Mechanical College Broadcasting Co., Jonesboro, Ark., C. P., 1120 kc., 500 watts, unlimited time.

Wednesday, September 24 - For New Stations: The High Point Enterprise, Inc., High Point, N. C. C. P., 750 kc., 5 KW, unlimited time; R. G. Hendrix, A.B. Robinson, Jr., L. A. Barrow, High Point Broadcasting Co., High Point, N. C., 1500 kc., unlimited time, 100 w.; Wayne M. Nelson, High Point, N. C., C. P., 1200 kc., 100 w., unlimited time; The Hutchens Co., Huntsville, Ala., C. P. 1200 kc., 100 w., unlimited time; John R. Wade, G. H. Choate, Gibson County Broadcasting Co., Trenton, Tenn., C. P. 1200 kc., unlimited time, 75 w.; J. S. Lamb Piano Co., Cairo, Ill., C. P., 1200 kc., 50 w., unlimited time; George P. Sowell, Kosciusko, Miss., C. P., 1200 kc., 100 w., 250 LS, 3 hrs. daily.

Thursday, September 25: WFJC, W. F. Jones Broadcasting, Inc., Akron, Ohio, C. P., 900 kc., 1 KW, unlimited time; WBCM, James E. Davidson, Bay City, Mich., modification of license, 920 kc., 1 KW; unlimited time; WVAE, Hammond-Calumet Broadcasting Corp., Hammond, Ind., C. P., 920 kc., 5 KW, unlimited time; WLBC, Donald A. Burton, Muncie, Ind., C. P., 1010 kc., 500 w., unlimited time; For New Stations: W. Clyde Martin, Palmyra, Ind., C. P., 900 kc., 1 KW, unlimited time; Jed W. Pearson, French Lick, Ind., C. P., 900 kc., 500 watts, unlimited time; E. R., J. R. & S. J. Donald, Donald Drug Co., Honea Path, S. C., C. P. 1150 kc., 5 w., daytime hours; Pierce M. Huff, Piedmont, S. C., C. P., 1350 kc., 7½ w; William H. Plyler, Columbia, S. C., C. P. 1010 kc., 1 KW, unlimited time; Chester W. Kean, Ft. Wayne, Ind., C. P., 1210 kc., 100 watts unlimited time; Huntington Broadcast Co., Inc., Huntington, Ind., C. P., 1240 kc., 500 w., limited time

Friday, September 26, 1930: KGKL, KGKL, Inc., San Angelo, Texas, C. P., 1280 kc., 500 w., unlimited time; KRGV, Valley Radio Electric Corp., Harlingen, Texas, C. P., 1260 kc., 1 KW to divide with KWWG; KGFG, Faith Tabernacle Association, Inc., Oklahoma City, Okla., voluntary assignment of license, 1370 kc., 100 w.; For New Stations: S. T. Cooper, Plainview Broadcasting Co., Plainview, Texas, C. P., 1340 kc., 250 w., unlimited time; A. E. Huepers & Chas. A. Jensen, Gulf Coast Radio Station, Alvin, Texas, C. P., 820 kc., 15 w., unlimited time; Searcy L. McFadin & John H. White, Borger, Texas, C. P., 1250 kc., 50 w., unlimited time.

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#### APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 4 - WMBQ, Paul J. Gollhofer, Brooklyn, N. Y., C. P. to make changes in equipment; KGCR, Cutler's Radio Broadcasting Service, Inc., Watertown, S. D., request for authority to voluntarily assign license to The Greater Kampeska Radio Corporation; KUSD, University of South Dakota, University Campus, Vermillion, South Dakota, modification of license to move main studio locally on campus; WRJN, Racine Broadcasting Corporation, Racine, Wisconsin, C. P. to make changes in equipment; For New Stations: Thomas Arnath, Linden, N. J., C. P. to erect a new station to use 1180 kc., 75 W., and 6 hours per day; Herschel W. Ward, Parma, Missouri, C. P. to erect a new station to use 1370 kc., 50 watts; and daytime hours; Bruce Dennis, owner of Evening Herald & Morning News, Klamath Falls, Oregon, C. P. to erect a new station to use 1390 kc., 100 watts, and 8 hours per day.

September 5 - KDKA, Westinghouse Electric & Manufacturing Company, 1.2 miles from Saxonburg, Penna., modification of license to operate old KDKA equipment at old location, Wilkins Twp., as an auxiliary transmitter when the new KDKA equipment at Saxonburg is being used as an experimental station; WJAY, Cleveland Radio Broadcasting Corp., Cleveland, Ohio, C. P. to move studio and transmitter locations in Cleveland (exact sites not yet determined) install new equipment, change frequency from 610 kc., to 590 kc., increase power from 500 watts to 1 KW, and change hours from daytime to unlimited; WMBR, F. J. Reynolds, Tampa, Fla., amendment filed to application for C. P. to request 1460 kc., instead of 1000 kc., with 5 KW, 10 miles S.E. of Tampa; KWK, Greater St. Louis Broadcasting Corp., St. Louis, Missouri, C. P. to change location of transmitter to Kirkwood, Missouri, and install new equipment; Pierce M. Huff, Piedmont, S. C., amendment filed to C. P. for new station to request 100 w. and daytime hours on 1350 kc., instead of 7½ w. and one hour daily.

September 6 - WELL, Enquirer-News Company, Battle Creek, Michigan, modification of C. P. to install present equipment at new location instead of new equipment and reduce power authorized from 100 W. to 50 W. on C. P. issued 4/19/30; WFKD, Foulkrod Radio Engineering Co., Philadelphia, Pennsylvania, C. P. to make changes in equipment and increase power from 50 W. to 100 W. on 1310 kc.; KFJR, Ashley C. Dixon, trading as Ashley C. Dixon & Son, Portland, Oregon, C. P. to make changes in equipment; For New Stations: Ron L. Wollard, Newark, Ohio, C. P. to erect a new station to use 1310 kc., 50 W., and unlimited hours; Midwest Radio Broadcasting Association, T. W. Tizzard, Jr., Vice-President, Bloomington, Illinois, C. P. to erect a new station to use 1310 kc., 100 w., and unlimited hours.

#### Applications Other Than Broadcasting

Ohio

WAEA, Indianapolis, Ind., and WAEB, Columbus, Aeronautical Radio, Inc., C. P. for new Point to Point Aeronautical station on 3468, 6365, 8015, 12180, kc., 400 watts; also for same stations, C. P. for new Aeronautical and Point to Point Aeronautical station on 3082 kc., anytime and 5540 kc., daylight, 400 watts; KGTR, Robertson, Mo., and KGTO, Springfield, Mo., Aeronautical Radio, Inc., C. P. for new Aeronautical station on 393, 400, 414, 420 kc., 100 watts; also for same stations, C. P. for new Point to Point Aeronautical station on 3468 anytime, 6365, 8015, 12180 kc., 400 watts; also for same stations, C. P. for new Aeronautical and Point to Point Aeronautical station on 3082 night, 5540 kc., day 400 watts; WQX, RCA Communications, Inc., Rocky Point, N. Y., modification of limited public license for additional transmitter on 20180 kc., 80 KW; W9XV, Ozark Radio Corp. of Cartersville, Mo., Cartersville, Mo., renewal of license for 1804, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 100 watts, experimental service; WCU, Continental Oil Co., Portable #2, Ponca City, Okla., modification of license for increase in power to 50 watts, geo-physical service; WBF, Tropical Radio Telegraph Co., 1 Federal St., Boston, Mass., license to cover C. P. for 6770, 10450, 12940, 17580 kc., 1 KW, limited public service.

September 5 - KGTI, Aeronautical Radio, Inc., Los Angeles, Calif., C. P. for new transmitter on 3070, 3460, 6350, 8015, 12180, 400 watts, aeronautical and point to point aeronautical; KGSE, Aeronautical Radio, Inc., Amarillo, Texas, C. P. for new transmitter on 3070, 3460, 6350, 8015, 12180 kc., 15 and 500 watts; KGTD, Wichita, Kansas, KGSD, Albuquerque, N. Mexico, KG TJ, Las Vegas, Nevada, and KGTH, Salt Lake City, Utah, C. P. for new transmitter on 3070, 3460, 6350, 7015, 12180 kc., 400 watts; WEB, RCA Communications, Inc., Rocky Point, N. Y., modification of license for additional transmitter on 6935 kc., 80 KW, limited public service; WIY, RCA Communications, Inc., Rocky Point, N. Y.,

modification of license for additional transmitter on 13870 kc., 80 KW, limited public service; WQV, RCA Communications, Inc., Rocky Point, N. Y., modification of license for additional transmitter on 14800 kc., 80 KW, limited public service; WBU, RCA Communications, Inc., Rocky Point, N. Y., modification of license for additional transmitter on 21260 kc., 80 KW, limited public service; W2XBI, RCA Communications, Inc., Rocky Point, N. Y., modification of license for change in frequency to 51400, 60000, 400000, and above 401000 kc., experimental service; W2XS, RCA Communications, Inc., Rocky Point, N. Y., modification of license for change in frequency to 34600, 60000, 400000 and above 401,000 kc., experimental service; W2XBB, Radio Corporation of America, Brooklyn, N. Y., modification of license for change in frequency to 25700, 34600, 60000, 400000, and 401000 kc., experimental service.

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# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: CONFIDENTIAL—NOT FOR PUBLICATION. :: ::

RECEIVED  
SEP 12 1930  
PRESS RELATIONS DEPARTMENT  
& W. JOHNSTONE

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No. 367



## CROSLEY PLANNING SPECIAL SERVICE

While no official announcement has been made, authoritative reports around the offices of the Federal Radio Commission have it that the Crosley Radio Corporation, owner of Stations WLW and WSAI, of Cincinnati, is planning to apply for a short wave channel to pick up special programs in Washington and rebroadcast them from the Queen City stations.

The plan includes the establishment of a studio in the Capital for the use of Cabinet officers, members of the Radio Commission, and other Government officials. The addresses will be rebroadcast, it is said, especially for the numerous land grant colleges in the Middle West.

Because of the extent of the use of radio by the public schools in Ohio, it is not considered unlikely that special programs will be relayed for children of High School age.

No application has as yet been filed with the Radio Commission, but feelers have been sent out, and it is expected that the request will be made formally very soon.

The Crosley Corporation already has applied for permission to erect a high frequency radio station to be used for rebroadcasting programs from foreign nations and for transmitting domestic programs abroad. The station would operate with 10,000 watts on 6,060 kilocycles. It would cost \$30,000 to build.

The Cincinnati organization also has a hookup with a chain that includes WOR, Newark, N. J.; WMAQ, Chicago; and WMBF, of Binghamton, N. Y. It appears that the Crosley interests are slowly working out plans for a miniature chain that may acquire the State chains now in operation in such States as California, Texas, and Virginia. If such an organization were effected, Crosley would be a leader of a third chain that could offer serious competition to the National Broadcasting Company and the Columbia Broadcasting System.

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## HEARING FORM IS CHALLENGED

The authority of the Federal Radio Commission to delegate an examiner to conduct a full hearing was challenged for the first time September 8th by the counsel for Arthur Faske and the Faske Engineering Co., of Brooklyn, N. Y.

The new procedure of turning virtually all the hearings over to two examiners went into effect September 2nd because of the great amount of time the work required.

Joseph S. Byrns, attorney for the applicant contended that the law specifically requires the full Commission to hear all cases.

In reply, Attorney Ralph Walker for the Commission, read that section of the Act which gives authority to the Commission to appoint examiners. Mr. Byrns, however, said that provision of the Act is not broad enough to provide for the delegation of the Commission's administrative powers.

Elmer W. Pratt, in charge of the case, overruled the protest of Mr. Byrns, and an exception was noted.

Mr. Byrns objected to the ruling of the examiner which excluded an affidavit of Representative Celler (Dem.), of Brooklyn, N. Y., in support of testimony by Arthur Faske, which the applicant made in April, 1928.

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#### RAPID STRIDES IN INTERNATIONAL TELEPHONY

The United States now has telephone communication with approximately 87 per cent of the telephones of the world, according to the Department of Commerce. They reach most European countries, South America, Canada, Mexico, and Cuba.

Indications of the rapid growth of international telephony are shown in the large increases in trans-Atlantic telephone calls from the United States during the short three years that this service has existed. Started first in 1927, trans-Atlantic telephone calls in that year numbered 2,500; in 1928, they increased to 11,800, and in 1929, the total was 19,000 calls.

The first international telephone directory was published in 1929 and included about 12,000 names from 38 countries. The new 1930 directory published in July listed 50,000 names. The United States now has direct telephonic connections with 29 different countries and also has radio-telephone service with four large passenger ships.

Great Britain leads the world in international telephone communications, having connections with 37 countries; France is connected with 36 countries; Germany 34, Switzerland 35; Sweden 33, while the small country of Latvia has 21. The extensive country of Russia has telephone connections with only about six other countries, while China and Japan have no international telephone connections at present.

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## NO BAN ON WET BROADCASTS

Frederick Van Vechten, Manager of WHEC, Rochester, N. Y., is "all wet" on his fear that the Federal Radio Commission might cancel his license if he had let speakers at a wet rally in Rochester September 10th be heard over his station.

Maj. Gen. Charles McK. Saltzman, Chairman of the Commission, said September 11th that in his opinion the Commission had no authority to censor such a broadcast and consequently the station would have been in no danger if the addresses had been carried.

"The Commission always observes the law", he said, "and the law does not give us any censorship authority."

Station WHEC barred the speeches of former Senator James W. Wadsworth, Jr., and Mrs. Charles H. Sabin, prominent New York society woman, at a rally of the Crusaders Association Against the Prohibition Amendment and the Women's Organization for Prohibition Reform.

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## INDIANAPOLIS STATIONS OPPOSE PLEA

Counsel for Stations WFBM and WKBF, both of Indianapolis, Ind., appeared at a hearing September 9th on the applications of the Hoosier Broadcasting Company for permission to erect a new station in Indianapolis. The granting of such a license, the objectors contended, would injure their chances of obtaining favorable action on pending applications for better facilities.

Thomas and John Littlepage, of Washington, appeared for Station WFBM, and Everett Walker, of Indianapolis, appeared for Station WKBF.

Arthur Cook, of Washington, counsel for the applicant, contended that Indianapolis needed another station. The request was for the 950 kilocycle channel with unlimited time on 250 watts at night and 500 watts during the day.

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## COMMISSION TO HOLD RADIO SCHOOL

Taking a cue from the Prohibition Bureau, the Federal Radio Commission is conducting a radio school for its employees, according to announcement by James W. Baldwin, Secretary. The lectures will be held weekly after working hours - from 4:30 to 5 P.M. in the hearing room. It will not be compulsory for the employees to attend. Officials of the Commission and other authorities on radio matters will make the talks.

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## WHITE AND COUZENS AID TO RADIO

With the election of Wallace H. White, Jr., to the Senate from Maine and the renomination (which means reelection) of Senator James Couzens of Michigan, the Senate is assured of two of the foremost authorities on radio legislation and the industry is assured of two friends.

Mr. White, it will be remembered, was Chairman of the House Committee on Merchant Marine and Fisheries while a Representative and was also author of the bill intended to remedy some of the major defects in the 1927 Radio Law, of which he was co-author. The bill passed the House but was still in the hands of the Senate Committee on Interstate Commerce when Congress adjourned.

Senator Couzens was, of course, one of the leaders in the communications inquiry which brought about the Department of Justice suit against the Radio Corporation of America and its associates and is author of the bill for the creation of a general Communications Commission to replace the Radio Commission.

It is likely that the Michigan Senator will be retained as Chairman of the Senate Interstate Commerce Committee and that Mr. White will get a place on the Committee, especially in view of Senator Harry Hawes' decision not to run again.

Representative Frederick L. Lehlbach, of New Jersey, is ranking member of the House Committee on Merchant Marine and Fisheries and will probably succeed Mr. White, though Judge Ewin Davis, of Tennessee, might get the job because of his prominent part in the drafting of early radio legislation.

Mr. White won his election by a 30,000 vote margin and led his ticket. Senator Couzens obtained a good majority over Governor Chase S. Osborne.

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### U. S. - RCA SUIT POSTPONED

A continuance was granted in the suit of the Government against the Radio Corporation of America and associates by Judge John P. Neields at the opening of the September term of the Federal Court at Wilmington, Del., September 9th, according to the Associated Press. The continuance was granted on the application of Charles S. Curley, counsel for the defendants, who said his clients were taking depositions.

Leonard E. Wales, District Attorney, said it was likely that the cases would go in trial at the December term of court.

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: BUSINESS LETTER BRIEFS :  
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Massachusetts has taken to the radio as a means of "telling the world" of the recreational, industrial, and agricultural opportunities of the State. The Massachusetts Industrial Commission is sponsoring a series of broadcasts advertising the State.

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The United States Office of Education has announced that it now has a great deal of data on education by radio available for inspection by interested persons. The data includes the files of the Advisory Committee on Education by Radio, which have just been accumulated and placed in one office.

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The Engineering Division of the Federal Radio Commission is skeptical of the experiments in radio reception on moving railroad trains. Many passengers object to the continual radio programs, it is contended, and the reception, even with earphones, is said not to be entirely satisfactory.

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Station WMBI, owned and operated by the Moody Bible Institute of Chicago, has installed a greatly enlarged studio at 152 Institute Place, Chicago. The old studio will be retained, however, for use of speakers and small organizations. The new studio is up-to-the-minute in equipment.

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Technical objections that Station WODX, of Mobile, had not filed with the Federal Radio Commission, prior to the hearing, an adequate statement, were raised by counsel for Station WOW, Omaha, Nebr., at a hearing on the former's application this week.

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The first college course in the business of radio broadcasting will be offered this year by the College of the City of New York. Frank A. Arnold, Director of Development of NBC, has been engaged to deliver a series of lectures on radio broadcast advertising. The course, which will be open to men and women, will begin September 29th.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 8 - WTFI, Toccoa Falls Institute, Toccoa, Georgia, C. P. to move studio and transmitter to Cox College, College Park, Ga., and make a few changes in equipment; WRBU, A. J. Kirby Music Co., (A. J. Kirby, owner), Gastonia, N. C., C. P. to move studio and transmitter locally in Gastonia, install new equipment, change frequency from 1210 kc. to 620 kc., and increase power from 100 W. to 1 KW, with unlimited hours; WSMB, Saenger Theatres, Inc & Maison Blanche Company, New Orleans, La., C. P. to move transmitter to about 7 miles from present location and install new equipment; KGNO, Melvin A. McCollom, near Dodge City, Kansas, request for authority to voluntarily assign license to the Dodge City Broadcasting Company; WISJ, Wisconsin State Journal Broadcasting Company, Beloit, Wisconsin, license to cover C. P. issued 4/13/30 to move transmitter to S.W. of South Madison, erect a studio at Main & Monona Sts., Madison, install new equipment, change frequency from 560 kc. to 780 kc., power from 500 W. to 500 W. day and 250 W. night, and hours from sharing with WIBO and WPGC to unlimited; WLBC, Donald A. Burton, Muncie, Ind., modification of license to move studio locally in Muncie; J. C. Johnson & Everett M. Peck, Jackson, Mississippi, C. P. to erect a new station to use 1230 kc., 250 W. and unlimited hours.

September 9 - WCDA, Italian Educational Broadcasting Co., Cliffside, N. J., modification of license to change hours of operation from sharing with WKBQ, WMSG, and WBNY to unlimited on 1350 kc.; WRAX, Berachah Church, Inc., Philadelphia, Pennsylvania, request for authority to voluntarily assign license to WRAX Broadcasting Co.; KRMD, Robert M. Dean, Shreveport, La., license to cover C. P. issued 8/15/30 to move studio and transmitter locally; KGFI, Eagle Broadcasting Co., Inc., Corpus Christi, Texas, license to cover C. P. issued 4/2/30 to install new equipment and increase power from 100 w. to 250 w. day and 100 watts night, on 1500 kc.; WLBC, Donald A. Burton, Muncie, Indiana, C. P. to install new equipment, change frequency from 1310 kc., to 1420 kc., increase power from 50 W. to 125 W. day and 100 w. night, and change hours from sharing with WJAK to unlimited.

Applications Other Than Broadcasting

September 8 - Aeronautical Radio, Inc.: KGSI, Phoenix, Ariz., KGSP, Denver, Colo., KGTL, Kingman, Ariz., KGTA, Holbrook, Ariz., renewal of licenses for 3070, 3460, 6350, 8015, 12180 kc., 400 watts; Also, WAED, Harrisburg, Pa., WAEF, Newark, N. J., WAEE, and WAEC, Pittsburgh, Pa., new C. P.s for Pt. to Pt. Aeronautical stations on 3468, 6365, 8015, 12180 kc., 400 watts, and new C. P.s for aeronautical and point to point Aeronautical stations on 3082, 5540 kc., 400 watts; W6XV, Federal Telegraph Co., Palo Alto, Calif., modification of experimental license to 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc.

September 9 - W2XCZ, National Broadcasting Co., Inc., Portable, New York City, renewal of special license for 2392 kc., 7.5 watts, to be used for special pick up program; W2XR, Radio Pictures,

Inc., Long Island City, N. Y., renewal of television license for 2100 to 2200 kc. and 2850 to 2950 kc., 500 watts; W2XAR, Radio Pictures, Inc., Long Island City, N. Y., renewal of experimental license for 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 500 watts; WPDE, City of Louisville, Police Dept., Louisville, Ky., license to cover C. P. for 2440 kc., 200 watts, limited commercial police service; W2XAB, RCA Victor Co., Inc., Camden, N. J., modification of C. P. for change in frequencies to 17300, 25700, 34600, 51400, 60000, 400000 kc., experimental service; W7XA, Globe Wireless, Ltd., Portland, initial location, Portland, Oregon, license to cover C. P. for 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 1 KW, experimental service; KSA, Globe Wireless, Ltd., Edmonds, Wash., modification of C. P. for extension of completion date to 1/4/31.

September 10 - KSF, Continental Oil Co., Ponca City, Okla., renewal of geophysical license for 1600, 1652, 1664, 1580, 1704 kc., 100 watts; WPDP, Bureau of Police, Dept. of Public Safety, Philadelphia, Pa., modification of C. P. for extension of completion date to 11/1/30; KSW, Berkeley Police Dept., Berkeley, Calif., license to cover C. P. for 1712 kc., 500 watts, limited commercial police service; W3XAD, RCA Victor Co., Inc., Camden, N. J., modification of experimental television license for change in frequency to 2000-2100 kc., and renewal of license for 2850 to 2950 kc., 500 watts, experimental television service; WLXT, Tropical Radio Telegraph Co., Boston, Mass., C. P. to move transmitter to Hingham, Mass.; KJV, Radiomarine Corp. of America, Baytown, Texas, license to cover new service (Marine Relay); WMR, Mackay Radio & Telegraph Co., near West Palm Beach, Fla., license to cover new service (marine relay); American Rolling Mill Co., Ashland, Ky., new C. P. for one frequency within 2250-2800 kc., band, 50 watts, limited commercial service; American Rolling Mill Co., on locomotive, Ashland, Ky., new license to cover transmitter on locomotive for 2440 kc., 50 watts, limited commercial service.

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#### LAFOUNT SEES BILLION IN TRADE

The total turnover in all branches of the radio industry this year should reach \$1,000,000,000 in the opinion of Radio Commissioner Harold A. Lafount despite the general business depression. The export trade is helping offset any slump in the domestic market, he said. Even the political unrest in South America is not likely to damage the exports into this profitable field.

Argentina is the best South American customer of the United States in radio exports, according to statistical information of the Department of Commerce, Mr. Lafount pointed out. Last year it bought \$1,776,000 worth of American radio products, embracing transmitting and receiving sets, tubes, loud speakers and other accessories.

World exports from the United States in 1929 were \$23,122,000, of which nearly \$3,000,000 went to the countries of South America. In July, radio exports to Argentina amounted to \$153,152, whereas during the entire year of 1928, exports to that country were \$1,512,000.

The industry, according to the Commissioner, is looking to the sale this year of some 3,500,000 receiving sets, with an estimated value of approximately \$400,000,000.

Discussing general radio conditions, Mr. Lafount said that the industry expects an annual turnover in radio tubes alone of more than \$200,000,000 this year. For radio receiving set tubes the income is estimated at \$187,000,000, while broadcast and industrial tube sales are expected to reach \$30,000,000, he said. A turnover of \$1,142,000,000 is foreseen as the average annual electronics market, which is founded on radio, he said. Besides basic broadcasting apparatus, this field embraces sound pictures, audio equipment, communications and industrial appliances.

Sound pictures are represented as a \$150,000,000 market in 22,000 theaters and 90 sound recording studios in the United States, Mr. Lafount declared. The audio equipment market should realize \$130,000,000, the communications market \$90,000,000, and industrial applications, such as miscellaneous machine control, X-Ray, elevator leveling, alarm systems, neon and glow tubes, a \$150,000,000 market.

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#### BRITISHER PREFERS GOVERNMENT CONTROL

The following observations on the comparative radio problems of this country and the British Isles were made by Lieut. Col. A. G. Lee, Engineer-in-Chief of the British Post Office Department, who is also Vice Chairman of the Radio Research Board and the Institute of Radio Engineers in his country, upon the occasion of his call at the offices of the Federal Radio Commission:

"Probably one of the reasons why England turned over the control of radio broadcasting to the government instead of following a system similar to that which is used in this country is the fact that the British are more used to government control than the people of this Nation.

"Although the British created a body known as the British Broadcasting Corporation for the purpose of controlling radio broadcasting, the Postmaster General of England speaks in the House of Commons for that body. The Post Office Department has the duty of solving interference problems and has charge of a number of radio services.

"Programs in England seem to be much freer from distraction because, since there is government control, there is no advertising to clutter up the programs as there is in this country.



## Programs Similar

"Essentially the programs of the two countries are of about the same nature, as there is about an equal amount of talent in each country, and probably a comparatively equal number of talks and speeches. Those are the bases on which programs should be judged - namely, the quality of entertainment and talks.

"Under the British system three chains broadcast throughout the country. These programs can be heard in all parts of London, and one is broadcast over a long-wave station so that it can be heard in the rural communities.

"There are also local stations at various points and although these are controlled by the British Broadcasting Corporation, at times they are given permission to cut in for the purpose of presenting local talent. There are less than 20 of these local stations.

"No attempt is made to arrange programs to suit the likings of particular parts of the British Isles, except that occasionally stations in Wales and Scotland are given permission to broadcast a program designed for the benefit of their sections.

"Naturally, problems confront the British relative to radio broadcasting, the most important of which is that of reducing the number of small stations. It is the desire of the government to reduce the number of local stations and that step is now being taken.

"The purpose of this reduction is to give better service. It is hoped to remove the local stations and leave the broadcasting field entirely to the chains, which probably would be increased to five. Many of the stations now are running on the same frequency, which can be accomplished due to the fact that the stations in England are well scattered while some of them are synchronized.

"Another of the problems which the British are attempting to solve is that of interference from street cars, the violet ray and oscillation.

"In the British Isles each person with a receiving set must pay a 'tax' of 10 shillings (about \$2.50) annually for the purpose of paying the expenses of the British Broadcasting Corporation in arranging the programs. The British have found this system extremely satisfactory.

"Since the radio audience has to pay this 'tax', it is only right that they should have the privilege of criticising the programs and this privilege is granted. The British Broadcasting Corporation invites the people to write in their criticisms and the programs are arranged as far as possible to suit the popular demands. The British Broadcasting Corporation, through this system, can gauge the popular taste and in case the desires of the people are not met by the broadcasting corporation, there is the alternative of taking their complaints to Parliament.

"The British find that their system works well and are satisfied with it."

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# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

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ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: CONFIDENTIAL—NOT FOR PUBLICATION. :: ::

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**RECEIVED**

SEP 16 1930

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G. W. JOHNSTONE

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No. 368

## WILL PUT CLAMP ON LICENSE TRANSFERS

All requests for assignment of radio broadcasting licenses are being most carefully scrutinized by the Commission, and its various divisions, to determine the financial responsibility of the new applicant for a license, his standing in the community and the necessity, if any, for continuing the station.

So many applications for change of ownership of stations have been filed recently that it appears trafficking in radio licenses is a new form of speculation developing in this country.

Section 12 of the Radio Act provides that no station license shall be transferred or assigned either voluntarily or involuntarily without the consent in writing of the licensing authority.

Emphasis is placed on the fact that all privileges granted under a license expire at the end of a license period, that the license is a franchise which cannot be sold.

Another apparent effort to take advantage of the Commission is the fact that numerous stations licensed to broadcast daily for short periods for the benefit of schools and churches are making application for the assignment of their licenses to commercial corporations. In most cases the request is accompanied by an appeal for more time on the air.

It is common knowledge that the Commission, in its desire to promote educational features and to carry church programs to the homes of the people, have been most liberal in granting licenses to those groups of applicants.

A few stations licensed to conduct charitable and altruistic work have been commercialized and now insist on more time to take care of advertisers.

All applications for assignment of such licenses will be carefully studied by the Commission and its investigators, and a real necessity for a commercial station must exist before such transfers are authorized.

It is likely that the Commission, in many cases, will find it advisable to cancel these licenses, rather than add to the overloaded channels. It would be a fine, patriotic service for these licensees to retire voluntarily from the field, if there is no longer any need of radio in their service, thus aiding the Commission in relieving some of the congestion in the air.

The Commission has just authorized an investigation of reports that the harmonics emitted by some broadcasting stations are causing much interference with reception on some frequencies used largely by commercial stations.

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## MIDGET RADIOS ON THE MARKET

The midget is the thing this season in sports and automobiles, and now the radio industry has reduced its receiving set cabinet to meet the demands of miniature golf course players and drivers of baby cars.

Forty-four manufacturers are placing some 58 models of midget receivers on the market this Fall, the current issue of Radio Retailing reveals. A variety of shapes, but all small enough to place on console tables or mantelpieces, are on display.

Some of them have the shapes of clocks and even have small timepieces in the center of the cabinets, making the illusion more realistic.

They range in size from  $14\frac{1}{2}$  x  $13\frac{1}{2}$  x 9 inches to 20 x  $13\frac{1}{2}$  x 7 inches. Prices run from \$59.50 (with tubes) to \$75, and the weights of the whole cabinet and speaker range from 18 to 40 pounds.

Some of their names are as characteristic as those attached to the one-lot golf courses. For instance, there is the Tom Thumb, several Juniors, Home Pal, and a few Mantels.

Several of the midget sets even include a phonograph.

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## SHORT WAVE CASE OCT. 13

Oral arguments in the continental short wave litigation involving the claims of four appellants for radio frequencies with which to create domestic radio telegraphic networks, will be heard by the Court of Appeals of the District of Columbia on October 13th.

Parties to the case are the Radio Corporation of America, the Mackay Radio and Telegraph Company, the Intercity Radio Telegraph Company, for which a receiver has been appointed, and the Wireless Telegraph and Communications Company, which appealed jointly with Intercity.

The status of the case has been altered by virtue of the receiverships of the Intercity and Universal companies, and the Court will be formally apprised of these conditions.

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## N. J. RADIO PLANTS EMPLOY 25,000

By Sept. 19, Camden, N. J., will have 25,000 workmen engaged in the manufacture and distribution of radio sets, Senator Baird (Rep.), of New Jersey told President Hoover on September 12th.

A concentration of manufacturing and distributing activities of the Radio Corporation of America, the Victor Company, the General Electric, Westinghouse, and Graybar companies, already has 18,000 men working in Camden, the New Jersey Senator said. Mr. Baird is endeavoring to secure the Secretary of Commerce, Robert P. Lamont, for an address to the employees on September 19th when the plants will be formally opened. They will have a capacity of 10,000 sets a day, he said.

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## BETTER RADIO SALES SEEN IN BRAZIL

Following are excerpts of a report on Brazil as a radio market, prepared by Trade Commissioner David S. Green at Sao Paulo for the Department of Commerce:

"While popular favor at present leans toward cheap low-powered sets, projected improvements in the quality and diversification of programs will undoubtedly be reflected substantially in the sales volume of more expensive equipment. During the year 1929, exports of radio apparatus from the United States to Brazil amounted to \$550,037 in value, according to United States export statistics. Of this amount \$171,973 was accounted for by complete receiving sets and \$128,422, was for receiving set components. Radio tubes exported to Brazil during that year amounted to \$90,248. United States export statistics for the first six months of 1930 show that the value of radio apparatus destined for Brazil amounted to \$250,656. Stocks are low, however, and a substantial increase in orders is anticipated before the end of the Summer.

"The location of the City of Sao Paulo and most of the State on a plateau, with mountains, separating it from Rio de Janeiro, seriously impairs the reception of distant broadcasting, with the exception of several very powerful short-wave stations in the United States which are heard in Brazil very well by those people possessing the proper type of receiver.

### Only Two Stations

"At present there are only two stations operating in the City of Sao Paulo, one of these having been in operation for six years and offering an excellent program. It is equipped with crystal control, and its power is 1 kilowatt. Another broadcasting station is to be placed in operation from the top of the 24-story Martinelli

building in Sao Paulo. This station is to be backed financially by an agent for several well-known American lines. The wave length of this station has not yet been determined.

"Several foreign radio groups are giving serious thought to the erection of stations to pick up short wave programs from the United States and Europe, planning to rebroadcast them over a wave within the range of the more popular receiving sets. The accomplishment of such a project would cause a decided increase in radio popularity.

"The Sao Paulo district is generally regarded as the most important one in Brazil from the standpoint of radio sales. Trade estimates have placed the number of receiving sets in operation in the State of Sao Paulo at 40,000. Of this total, probably 25,000 are crystal sets, 9,000 battery-operated sets, and 6,000 electrically operated sets. Of the 9,000 battery-operated sets, it is estimated that 5,000 were imported assembled and 4,000 made up locally largely of imported parts. At least 90 per cent of the electric sets are believed to have been imported in one or another stage of assembly.

#### No Local Industry

"Local manufacture of complete radio sets has ceased on an industrial scale, with the failure last year of Radio Industrial Brasileira. This firm imported very few of its parts and, perhaps largely for this reason, its sets did not give satisfaction for very long. There are, however, a number of radio enthusiasts who have developed into specialists and who construct sets, largely of imported parts. Servicing facilities are comparatively good, at least in the city of Sao Paulo. Special servicing departments are now maintained by the outstanding distributors.

"At present the demand for short-wave receivers is limited only by their relatively high cost. Theoretically this should be a good market, owing to the relatively small time differential between Brazil and the United States or Europe. Reception from these points is comparatively good under favorable weather conditions. Many potential customers, however, are holding off in the expectation of early establishment of a Brazilian station to relay and rebroadcast short-wave programs from distant points.

"European manufacturers, particularly the Netherland firm Phillipa, are giving very strong competition in the sale of tubes. This firm is reported to be doing well in the Sao Paulo market with its new line of alternating-current tubes and with special battery tubes."

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: BUSINESS LETTER BRIEFS :  
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The Hazeltine Corporation of Jersey City filed an equity suit in Federal Court at Newark, September 10th for patent infringement against the Radio Frequency Laboratories, Inc., of Boonton, N.J. The defendants are charged with making profits exceeding \$500,000 by infringing on a radio invention of Louis A. Hazeltine. Judge William N. Runyon signed an order directing the defendants to show cause on September 22nd why a preliminary injunction should not be issued.

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Despite the advance in the radio art, carrier pigeons are still being used as supplemental to wire and wireless communication in the Army although they have been virtually abandoned by the Navy. The Army still has about 700 pigeons, some 450 of which are at Fort Monmouth, N. J.

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As was predicted in a recent Business Letter, the Crosley Radio Corporation has announced that a large number of land grant college and university stations throughout the United States are going to rebroadcast educational programs picked up from the Crosley short wave station, W8XAL. For the present programs from the Ohio Department of Education will be relayed, but it is rumored this service will be later extended to include addresses directly from Washington.

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The radiotelephone was used to great advantage by the New York Times and press associations in covering the Argentine revolution after a censorship had been clamped on the cables. The telephone was used for communications for several days before the Argentine government officials awoke to the leak and put a censorship on its use also.

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Said Prof. Henry Bailey Rathbone, of New York University, at a recent meeting of the New York State Publishers' Association: "Radio is becoming a dangerous competitor for newspaper advertising. Where the newspaper is reaching its hundreds of thousands, or its thousands, or merely its hundreds, the radio is claiming an audience of millions for its advertising messages."

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American radio engineers have organized for the International Radio Consultative Conference at Copenhagen next year. Dr. C. B. Jolliffe, Chief Engineer of the Radio Commission, is Executive Chairman, and Gerald C. Gross, short wave engineer on the Commission, is Secretary. Four Committees have been named.

Capt. S. C. Hooper, Director of Naval Communications, is Chairman of the Committee considering stability of transmitters; Hardan Pratt, Chief Engineer of Mackay Radio & Telegraph Co., is Vice Chairman; and Lieut. Commdr. Redman, U.S.N., is Secretary. William D. Terrell, Chief of the Commerce Department Radio Division, is Chairman of the Committee to study the reduction of short wave interference, with Lloyd A. Briggs, of RCA, as Vice Chairman, and Laurens E. Whittemore, of the American Tel. & Tel., Secretary.

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Marconi, in the inaugural address at the second meeting of the Italian Society for Advancement of Science September 11th, expressed belief that radio waves may travel long distances, even millions of miles beyond the earth's atmospheric layer, according to the Associated Press.

He said he did not see any reason why, as some scientists maintain, waves produced on the earth should not travel such a distance, since light and heat waves reach us from the sun, penetrating the atmospheric layer.

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The Operadio Manufacturing Co., of St. Charles, Ill., which installed the public address equipment at the National Air Races in Glenview, Ill., submits the following sidelights on the equipment used:

The speakers used weighed approximately eight tons; approximately ten miles of wire were used in the installation; over \$30,000 worth of equipment was installed; approximately 345 watts of undistorted output was used; the installation was so designed that it could be controlled from a remote position; approximately one mile of grand stands and parking area were covered with sound.

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Government radio stations which have been operated by the Radio Corporation of the Philippines were turned over to the Phillipine Bureau of Posts on September 16, the Department of Commerce has been informed. The Governor General stated that "this is a temporary measure and not designed as a permanent solution of the problem."

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## APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 11 - WGR, Radio Station WGR, Inc., Amherst, N.Y., request for authority to voluntarily assign license to Buffalo Broadcasting Corp.; WMAK, WMAK Broadcasting System, Inc., Grand Island, N. Y., request for authority to voluntarily assign license to Buffalo Broadcasting Corp.; WILL, University of Illinois, Urbana, Ill., request for authority to install automatic frequency control, application supersedes construction permit application dated 8/16/30; For New Stations: Chas. Smuck, Springfield, Miss., C. P. to erect a new station to use 1500 kc., 100 W., and unlimited hours; F. E. Garvin, M. R. Wagner, and Hoke Jones, d/b as Garvin Furniture Company, Newton, N. C., C. P. to erect a new station to use 1370 kc., 100 w. and unlimited hours; Roy Rhodes, LaGrange, Indiana, C. P. to erect a new station to use 1500 kc., 15 watts, and an average of 10 hours per day.

September 12, 1930 - WRDO, Albert S. Woodman, Augusta, Maine, modification of C. P. to extend completion date on c.p. to 12.9.30; WIBM, C. L. Carrell, near Jackson, Michigan, request for authority to voluntarily assign license to WIBM, Inc.; KFJF, National Radio Manufacturing Co., 9 miles east of Oklahoma City, Oklahoam, modification of C. P. to extend completion date on C. P. to 9/26/30; KJBS, Julius Brunton & Sons Co., San Francisco, Cal., license to cover C. P. issued 8/9/30 to make changes in equipment; KFIO, Spokane Broadcasting Corp., Spokane, Wash., modification of license to request authority to operate from midnight to local sunset, P.S.T., station now operates daytime hours only; Starret Construction Company, Detroit, Michigan, C. P. to erect a new station to use 1480 kc., 100 W., and unlimited hours.

### Applications Other Than Broadcasting

September 11 - WBF, Tropical Radio Telegraph Co., Hingham, Mass., C. P. for change in location and change in equipment, 6770, 10450, 12940, 17580 kc., (2 transmitters) 1 KW each, public coastal service; also, C. P. for change in location, change in equipment and one additional transmitter, 147, 436, 500, 4172, 8550, 12370, 22400, plus calling frequencies (3 transmitters) 1 KW, 750 watts, 20 KW (new), Coastal service; WAG, Mackay Radio & Telegraph Co., near Rockland, Maine, license for new service (Marine Relay), 109 kc., 5 KW; RCA Communications, Inc.; WET, Rocky Point, N. Y., renewal of limited public license for 9470 kc., 80 KW; WAZ, New Brunswick, N. J., renewal of limited public license for 7415, 14920, 17860, kc., 80 KW; WQH, Rocky Point, N. Y., renewal of limited public license for 18880 kc., 80 KW; WQS, Rocky Point, N. Y., renewal of limited public license for 13915 kc., 80 KW; WQC, Rocky Point, N. Y., renewal of limited public license for 15040 kc., 80 KW; KTK, Globe Wireless, Ltd., Mussel Rock, Calif., modification of coastal license for new transmitter on 5525, 11050, 16580, 22100, 4116, 6515, 8630, 11020, 16900, 22160 kc., 500 watts; K7XF, A.A. McCue, on M/S "Kiska" in vicinity of Boc de Quadra, Alaska,

license to cover C. P. for 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 50 watts, experimental service; American Radio News Corp., Carlstadt, Bergen Co., N. J., modification of C. P. for change in location of transmitter to Carlstadt, N. J.; J. Carroll Melton, Norfolk, Va., new C. P. for 6080 kc., 500 watts, experimental service.

September 12 - Pan American Airways, Inc.: KHFQJ, Airplane NC-146 M, KHFSH, Airplane NC-304-N, KHFWD, Airplane NC-945-M, KHASH, Airplane NC-9107; KHFKP, Airplane NC-75-K; KHFOL, Airplane NC-144-M; KHAPK, Airplane NC-8044, KHATQ, Airplane NC-9151, KHAKP, Airplane NC-8000, KHFRI, Airplane NC-300-N, KHABY, Airplane NC-9776, KHAHZ, Airplane NC-9775, modification of Aircraft licenses for additional frequency of 8650 kc.

September 13 - WPDH, City of Richmond, Police Dept., Richmond, Ind., modification of C. P. for change in location of transmitter; also license to cover C.P. for 2416 kc., 50 watts, limited commercial police service; Pan-American Airways, Inc., KHFAZ, Plane NC-9137; KHFNM, Plane NC-142-M, KHFVE, Plane NC-309-N, KHFUF, Plane NC-306-N, KHAVE, Plane NC-8020, modification of aircraft licenses for additional frequency of 8650 kc.

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#### DECISIONS OF THE FEDERAL RADIO COMMISSION

September 12 - The Commission granted the following applications:

KKB, Globe Wireless, Ltd., Sherwood, Oregon, license, frequency 500 kc., calling, 460 kc. working, 1500 watts; KJV, Radiomarine Corp. of America, Baytown, Texas, modification of license to read as follows: "hours of operation from 8 A. M. to 5 P. M., local standard time"; WDA, RCA Communications, Inc., Rocky Point, N. Y., license frequency 9480 kc., 80 KW, A1, A2, A3, Emission, to communicate with Curacao, Paramaribo, S. Martin and any other stations of RCA; WDB, RCA Communications, Inc., Rocky Point, N. Y., license frequency 6717.5 kc., 80 KW, A1, A2 and A3 emission, to communicate with Manaqua, Tokio and any other stations with which other RCA stations are licensed to communicate; Mutual Telephone Co., Honolulu, T. H., C. P. to install high frequency point to point equipment to carry on inter-island telephone service, general coastal telephone service, frequency 164 kc., 50 watts; Aeronautical Radio, Inc., frequency 5540 kc., to be used for period not to exceed 60 days on Blue Chain; KHILO, Crosley Radio Corp., Plane NR-49 6-M, permission to use 457 kc., as a broadcast pickup frequency during period of National Reliability Tour, September 11th to 27th; WMAQ, WMAQ, Inc., Chicago, Ill., permission to use frequency 1584 kc., in lieu of 1564 kc., for test program from yacht on Lake Michigan; Loren W. Mendell, Airplane "Pride of Hollywood", license 3106 kc., calling and working frequency for itinerant aircraft (Not to be used for rebroadcast purposes) 2368 kc for transmission to be rebroadcast, not to be used for other purposes; 50 watts, A3 emission; KGJE and KRM, Federal State Marketing

Service, Sacramento, Cal., C. P. to erect 100 watt station at Santa Maria, Cal., frequ. 3250, 4244, 5365 kc., also granted license for Station KRM at Sacramento, 100 watts, frequency as above (these applications were heard in Los Angeles, July 17th, 1930. The Commission desired to go fully into question of what use was being made by this service of these frequencies).

Also, KIDO, Frank L. Hill & C. G. Phillips, d/b as Boise Broadcast Station, Boise, Idaho, modification of C. P. to make changes in equipment and install automatic frequency control, and change hours of operation to unlimited until other assignment on 1250 kc.; KFIO, Spokane Broadcasting Corp., Spokane, Wash., license on 1120 kc., 100 watts, daytime; KFQU, W. E. Riker, Holy City, Cal., license on 1420 kc., 100 watts, sharing with KGGC; KOOS, H. H. Hanseth, Inc., Marshfield, Ore., C. P. to move transmitter and studio locally in Marshfield; KWWG, City of Brownsville, Chamber of Commerce, Brownsville, Texas, C. P. to make changes in equipment; WISN, The Evening Wisconsin Co., Milwaukee, Wis., C. P. to install new equipment, maximum power of 500 watts, and automatic frequency control.

In addition to the above there was granted Ship Licenses as follows: 7 renewals; 5 new and 2 modifications.

#### Set For Hearing

WQDX, Stevens Luke, Thomasville, Ga., asks for C. P. to move studio locally in Thomasville, change frequency from 1210 to 1340 kc., increase power from 50 to 500 watts and change equipment; Robert J. Boudreau & Joshua A. Trotti, Lake Charles, La., asks for C. P. for new station, 1000 kc., 5 KW, unlimited time, also to use portable to test for location; WCDA, Italian Educational Broadcasting Co., New York City, asks for C. P. to install new equipment and increase power from 250 watts to 1 KW; WIOD-WMBF, Isle of Dreams Broadcasting Corp., Miami Beach, Fla., asks for C. P. to install new equipment and increase day power from 1 to 2½ KW (retain 500 w. night with additional 500 w. experimentally, unlimited time, and 1300 kc.). This application, which originally requested increase in power from 1 KW to 2½ KW day and night was set for hearing in Minutes of June 30th, request was amended to increase day power only as above; Atlantic Broadcasting Corp., Portable, Los Angeles, asks for C. P. to construct and use a transmitter in connection with the direction of motion picture filming, 4795 kc., 15 watts, unlimited time.

#### Applications Dismissed

The following were set for hearing but applicants advise they do not desire to be heard: WHP, Pennsylvania Broadcasting Co., Harrisburg, Pa., requested modification of license 930 kc., unlimited time, 250 watts, 500 w. LS.; KTSM, W. S. Bledsoe & W. T. Blackwell, El Paso, Texas, requested modification of license 1210 kc., 100 watts, unlimited time; Clement Finch and Ervin H. Knapp, Maysville, Ky., requested C. P. for new station 750 kc., 100 watts, unlimited time.

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## HIGH POWER HEARINGS BEGIN

Hearings on applications of stations operating on cleared channels for permission to use 50,000 watts got under way Monday morning before the Federal Radio Commission with the case of Station WHAM, Rochester, N. Y., the first to be heard. The applications, which will be heard in the order of Zones, are confined to the First Zone this week.

Four applicants are to be heard, and in addition seven cleared channel stations, affected in one way or another, are attending upon invitation of the Commission and will probably testify.

R. McCann, President of the Stromberg-Carlson Manufacturing Co., operation of Station WHAM, was the first witness.

Ellis Yost, Chief Examiner, is presiding at the hearing, and Commissioner William D. L. Starbuck sat in Monday. It is expected that the several Commissioners will pay particular attention to their respective zones though they are not required to attend the hearings. Ben S. Fisher is the Commission's attorney.

Other applications scheduled this week are those of Stations WBZ, Boston, Mass.; WOR, Newark, N. J., and WJZ, New York City. Stations notified are WEAJ, New York City; WABC, New York City; WBAL, Baltimore; WPG, Atlantic City; WLWL, New York City; WOWO, Fort Wayne, Ind.; and WWVA, Wheeling, West Va.

A more complete account of the hearings will be carried in the Thursday Business Letter.

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## CANADA TO USE ARMY-NAVY CHANNELS

In an effort to expand its broadcasting facilities with the least possible inconvenience to the United States, Canada has notified the State Department that it henceforth will use three long-wave channels which are outside the broadcast band internationally agreed upon and are now utilized by the Army and Navy of this country for aeronautical communication.

The Canadian problem has been a disturbing one for some time, but the United States has guarded jealously its large majority of broadcasting facilities. Out of the 96 kilocycles allotted to the North American continent, Canada has only six exclusive channels and shares eleven others with this country.

Upon receiving the information from Canada, William R. Castle, Assistant Secretary of State, immediately called a conference of the Federal Radio Commission, the Radio Division of the Department of Commerce and radio executives of the Army and Navy on September 12th.

While the details of the plan were not available, it was presumed that the Dominion intended to use the three designated channels for low power stations in the interior of the country. If such is the case, the chances are 99 out of 100, it was said, that no interference will be caused the Army and Navy.

According to the rules adopted by the International Radiotelegraph Convention in 1927, a Nation may use any channel provided no interference is caused with operations of other countries having a prior claim to the frequencies.

The channels are 520, 530, and 540 kilocycles, while the broadcast band is from 550 to 1,500 kilocycles. The former is close to the international distress signal, which is 500 kilocycles.

Should this experimental plan not prove feasible, it is likely that Canada will make a fight for more broadcasting frequencies at the next International Radio Convention. And as it is, this country hasn't enough channels to satisfy the numerous applicants.

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#### HEARINGS SCHEDULED BY FEDERAL RADIO COMMISSION

September 29 - WBBM-WJBT, Atlass Co., Inc., Chicago, Ill., modification of license, to 770 kc., 25 KW, unlimited time; KFAB, Nebraska Buick Automobile Co., Lincoln, Neb., modification of license to 770 kc., 5 KW; also C. P. to 770 kc., 25 KW, unlimited time.

September 30 - WIBJ, formerly C. L. Carrell, Springfield, Mo., C. P., 1200 kc., unlimited time, 100 w.; Howard T. Bailey, Elmer Hicklin & V. M. Blankenship, (KBHB Broadcasting Co.), Kennett, Mo., C. P., 1230 kc., unlimited time, 250 w.; KWKC, Wilson Duncan, Kansas City, Mo., modification of license, 1370 kc. 100 w., unlimited time; Clement Finch & Ervin H. Knapp, Maysville, Ky., C. P., 750 kc., 100 w., unlimited time; Howard P. Drake, Bolivar, Mo., C. P., 1320 kc. 15 w., 2 hrs. day, 1 hr. evening; Wm. J. Kluth, Jr., Nevada, Mo., C. P., 1450 kc., 50 w., unlimited time; Harlan Radio Broadcasting Co., Harlan, Ky., C. P., 1210 kc., 100 w., unlimited time; Sewall B. Jackson, Memphis, Tenn., C. P., 1210 kc., 50 w., unlimited time; John R. Anderson, Cardwell, Mo., C. P., 1420 kc., 25 w., unlimited time; Milbourne O. Sharpe & Robt. T. Smith, Radio Station WMNT, Middlesboro, Ky., C. P., 1420 kc., 15 w., unlimited time; Dairy Farmers Station, Inc., Mayfield, Ky., C. P., 1420 kc., 50 w., unlimited time; J. L. Williford, C. P., 1420 kc., 15 w., daytime; E. St. Louis Daily Journal Co., E. St. Louis, Ill., C. P., 640 kc., 1 KW, unlimited time; Charles Rodgers & Glenn Schuler, Mt. Carmel, Ill., C. P., 1370 kc., 15 w., daytime hours.

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# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

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ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: CONFIDENTIAL—NOT FOR PUBLICATION. :: ::

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SEP 19 1930

RELATIONS DEPARTMENT  
S. W. JOHNSTON

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No. 368<sup>9</sup>

## STATION WBBM OBTAINS INJUNCTION

Station WBBM, of Chicago, key station of the Columbia System in the Middle West, obtained a restraining order against the Federal Radio Commission on September 15th preventing Station WISJ, of Madison, Wis., from continuing operation on 780 kilocycles. The District Supreme Court issued the temporary injunction.

The bill of complaint, filed by Littlepage & Littlepage, of Washington, contends that the Commission issued a temporary permit on September 8th to WISJ, operated by the Wisconsin State Journal, without notifying WBBM despite the fact that the new channel of the Madison station is only ten kilocycles removed from the 770 kilocycle channel of the Chicago station. The transmitters are only 100 miles apart, it is also pointed out.

The WBBM brief also alleges that irreparable damage was being done to WBBM because of the blanketing of its signals for an area of 25 miles around Madison and that such a small kilocycle separation is contrary to engineering principles and law.

Rumors are current in the Capital that the Commission granted the license to WISJ at the request of the Republican administration because the Wisconsin State Journal was a staunch supporter of the candidacy of Gov. Walter J. Kohler and opposed to Philip F. LaFollette, Progressive, in the Republican primary held this week.

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## LAFOUNT SEES TREND TO EDUCATION

A study of programs now being put on the air by broadcasting stations indicates increased attention is being given to educational subjects, Radio Commissioner Harold A. Lafount declares in a statement issued September 16th.

"While the Commission under the Radio Act has no right of censorship over programs, the kind of material broadcast by stations necessarily must influence it in making allocations of wave lengths and power", he adds.

"It is most gratifying to note the trend by many stations from jazz to informative and instructive talks by prominent officials and experts on a variety of subjects. In my opinion this is one of the most important uses to which a broadcasting station can dedicate itself. Of course, the programs should not be 'too heavy' nor should too much time be devoted to 'timely topics', but every program should contain these features daily."

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## JAPANESE RADIO LETTER SERVICE

A radioletter service to and from Japan will be inaugurated on the first of October, it was announced today by Mr. W. A. Winterbottom, Vice-President of R.C.A. Communications, Inc.

The rates for this new service will be approximately one-third the ordinary rate with a minimum charge for twenty words. The messages will be subjected to a minimum delay of forty-eight hours. Registered code addresses will be accepted.

The new service will be effective from the United States, Canada and Newfoundland to Japan and the Japanese possessions including the Caroline Islands, Chosen, Formosa, Jaloutit Island, Japanese Saghalien, Pescadore Islands, Saipan and the Japanese offices in Kwantung and South Manchuria.

This radioletter service will be carried on to and from Japan via San Francisco, Mr. Winterbottom said.

The rate from San Francisco will be \$4.50 for twenty words or less with an additional charge of  $22\frac{1}{2}$  cents for excess words. The rate from New York, Boston and Washington will be \$5.50 for twenty words or less, and  $27\frac{1}{2}$  cents for additional words.

All radioletters for Japan should be filed with the Western Union Telegraph Company.

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## TO SURVEY MINIATURE RADIO SETS

The Radio Division of the Department of Commerce has announced that it will probably make a survey of the popularity of the miniature receiving set in the questionnaires to be sent out October 1st.

The Department is now compiling results of an inquiry into the number of combination radio-phonograph sets sold and the number of sets taken in trade-ins. These results will be announced in the near future.

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: BUSINESS LETTER BRIEFS :  
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The RCA Radiotron Co., of Newark, N. J., has installed a central radio system with 28 loud speakers scattered throughout the factory, where more than 1,000 girls are employed. Music and the high spots of the day's programs are furnished the girls while they work.

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Installation of high frequency point-to-point equipment for the operation of radiotelephone service among the six islands of the Hawaiian group was authorized by the Radio Commission September 15th upon application of the Mutual Telephone Company of Honolulu.

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Oswald F. Schuette, Executive Secretary of the Radio Protective Association, sent a telegram to Secretary of Commerce Lamont on September 15th protesting against his scheduled address on September 19th at the formal opening of the RCA consolidated plant at Camden, N. J. The Secretary immediately replied that he had cancelled the engagement on September 9th "on account of important matters here."

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A radio station being constructed by the Spanish Trans-radio Company at San Lorenzo, Grand Canary (Islands), is rapidly nearing construction. It will maintain three services: (1) international long distance; (2) with the Islands of Teneriffe; and (3) with ships.

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What is believed to be a world record in radio telephony was established recently when an aviator 5,000 feet above Buenos Aires, Argentina, conversed with the General Post Office in Sydney, Australia, over a 14,000 mile circuit.

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A growth in the demands for its radio tubes has enabled the Arcturus Radio Tube Co., of Newark, N. J., to increase its production force from 180 to 800 in July.

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"Radio, the Assistant Teacher" has just been issued by the Ohio School of the Air. It is by teachers in the school, which is recognized as the pioneer in educational broadcasting, and gives a comprehensive survey of the history and present status of teaching by radio.

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Says Edwin A. Benis, Field Manager of the Colorado Press Association, speaking to Colorado newspapers: "There isn't a thing to be gained by the newspapers in knocking radio advertising."

He adds that radio advertising is a "permanent institution" and that it has given a "greater impetus to newspaper advertising" because "advertising as an institution has been drilled into the minds of national advertisers."

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Louis G. Caldwell, former General Counsel of the Federal Radio Commission, is in charge of a Washington office of Kirkland, Fleming, Green and Martin, Chicago law firm. The Capital branch is located in the National Press Building.

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The Civil Service Commission has announced a competitive examination for an agricultural radio writer. Applicants must have a bachelor's degree in agricultural or industrial journalism, or equivalent education and a year of certain specified experience.

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#### SELF-TUNING RADIO DEMONSTRATED

The new Lyric radio receiver, which is tuned automatically to a pre-determined series of broadcast programs at definite times, was demonstrated September 17th in the Rudolph Wurlitzer Building, New York City.

L. C. Shapiro, Chief Engineer of the company, responsible for the invention explained the device comprised three essential elements: first, an electric motor capable of rotating the tuning condenser and also capable of stopping at any one of nine pre-selected tuning positions; second, a time clock, electrically driven; and third, a mechanism which correlates the functioning of the aforementioned units, so as to permit the receiver to be tuned to chosen programs at fifteen-minute intervals, throughout the twenty-four hour day.

It was claimed by Mr. Shapiro that the complete set-up for a twenty-four hour program can be easily made by a complete novice in the space of one or two minutes.

This invention means that a radio listener may, by consulting the newspaper radio programs, select the programs to which he wishes to listen on the following day or days, and the receiver will tune in those pre-selected features at the proper time each day until the settings are altered.

The receiver will be revealed to the public for the first time during the forthcoming Radio Show in New York City.

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#### GREAT BRITAIN PLANS WORLD STATION

Following the lead of the United States and several European countries, Great Britain is planning to construct a permanent short-wave empire broadcasting station of world-wide range. The station is to be located at Daventry; work on the transmitter will begin in a few months.

The British Isles have 21 radio stations now, but about half of these have only a local range. Recent reports are that the number of stations are being reduced to seven regional units, all operated by the British Broadcasting Corporation. Each station under the new plan will have two wave lengths, one for relaying programs from London and the other for broadcasting local programs.

The first broadcasting station under the new system to be put into operation is located at Brookman's Park, just north of London. This station has been operating since last Spring. The locations of the rest of these large stations are Swansea in southern Wales, Daventry in central England, one between Manchester and Sheffield in northern England, one between Glasgow and Edinburgh, Scotland, and a national station single transmitter at Belfast, Ireland.

England's proposed world-wide station at Daventry will probably be in a class with those of the United States as well as Germany's and Holland's. To begin with, the Empire broadcast service will operate for a short period daily, it is reported.

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## HIGH POWER APPLICANTS BOMBARD COMMISSION

The Federal Radio Commission was virtually' bombarded with arguments in favor of high power this week during the hearing on four applications for 50,000 watts by stations in the First Zone. The witnesses went further than testifying for their own needs and frequently declared that the cleared channel band is the limit in high power broadcasting.

The session was concluded Wednesday afternoon with defense testimony by Dr. C. B. Jolliffe, Chief Engineer of the Commission, whose chief argument was that the Commission should move slowly toward high power so that its limited personnel will have time to study its effects before adopting the policy generally.

Next Monday hearings will be held on the applications from the Second Zone.

Probably the most telling testimony of the hearings was given by recognized radio experts who declared that high power would benefit both the listeners and the broadcasters and that nothing but good could result from an opening of all the 40 cleared channels to 50,000 watt stations.

### Sees Waste In Order

Prof. C. M. Jansky, Jr., of Washington, appearing on the first day for WHAM, said that the restriction of maximum power stations to half of the cleared channels is technically ill-advised and a "waste" of radio facilities. There is "every technical reason" why all stations operating cleared channels should not use "at least" 50,000 watts, he stated.

In the opening statement for WBZ, of Boston, Judge John J. Jackson, General Counsel, said:

"We agree with the testimony that there is no technical reason why all stations interested in this hearing should not have 50,000 watts power."

Listeners all over the country would be greatly benefitted if all cleared channel stations used 50,000 watts power, S. M. Kintner, of Pittsburgh, Assistant Vice President of the Westinghouse Electric & Manufacturing Co., declared in testifying for WBZ.

Edgar Selis, New York radio engineer representing Station WOR, of Newark, concurred in the view of Dr. Kintner that cheaper radio receivers would be available if the power of broadcasting stations were increased.

## N. J. Advises Caution

Representative Frederick R. Lehlbach, of Newark, ranking member of the House Committee on Merchant Marine & Fisheries, appeared in behalf of Station WOR. The State of New Jersey, through its Attorney General, William A. Stevens, advised the Commission to "proceed carefully", however, less the broadcasting of low powered stations be hampered.

A. L. Ashby, General Counsel of NBC, appearing for Station WJZ, said that he had no quarrel with the other three applicants from the First Zone but added that WJZ is entitled to preference if there be any, because it is a key station of the National Broadcasting Company.

C. W. Horn, General Engineer of NBC, and John W. Elwood, Vice-President in Charge of Operations, also testified regarding the service area and program quality of the station, respectively.

Throughout the hearings there were remarkable exhibitions of a friendly spirit among the applicants instead of the accustomed rivalry. All appeared confident that the Commission would be compelled to grant all the requests. In several instances the counsel for one applicant declined to cross-examine the witnesses of another applicant on the ground that there was not competition.

Yet, if the original order of the Commission is enforced, only eight of the 25 applicants from the five zones will be awarded high power licenses.

Station WHAM was represented by Col. William J. Donovan, former Assistant Attorney General, B. M. Webster, Jr., and Paul Segal, formerly of the Commission's Legal Division; George S. Law and Judge Jackson appeared for WBZ; former Representative Frank D. Scott, of Michigan, was chief counsel for WOR; and E. S. Sprague and Mr. Ashby appeared for Station WJZ.

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## APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 15 - WBAL, Consolidated Gas Electric Light & Power Company of Baltimore, Glen Morris, Md., C. P. to move transmitter (location to be determined) install new equipment, and increase power from 10 KW to 50 KW on 1060 kc.; WMCA, Knickerbocker Broadcasting Co., Inc., D. L. & W. R. R. Terminal, Hoboken, N. J., C. P. to make changes in equipment; The New Haven Broadcasting Co., New Haven, Conn., C. P. to erect a new station to use 1420 kc., 250 w. and daytime hours.

September 16 - WHAM, Stromberg-Carlson Telephone Mfg. Co., Victor Township, N. Y., modification of license to increase power from 5 KW to 50 KW on 1150 kc.; KTAT, S.A.T. Broadcasting Co., Birdville, Texas, modification of license to change location of

main studio from the Texas Hotel to the Aviation Building, Ft. Worth, Texas, also, request for authority to voluntarily assign license to the KTAT Broadcasting Company, Inc.; WKBH, Jos. Callaway, trading as Callaway Music Company, La Crosse, Wisconsin, modification of license to change frequency from 1380 kc., to 620 kc., and hours from sharing with KSO to unlimited; KDFN, Donald Lewis Hathaway, Casper, Wyoming, license to cover C. P. issued 8/15/30 to make changes in equipment; William S. Walker, Pittsburgh, Pennsylvania, C. P. to erect a new station to use 1500 kc., 100 watts, and unlimited hours (WMBJ equipment); Robert H. Jones, Jr., and W. M. Perry, Lubbock, Texas, C. P. to erect a new station to use 1450 kc., 500 watts, and unlimited hours.

September 17 - WJZ, Radio Corporation of America, Bound Brook, N. J., modification of license to increase power to 50 KW, on 760 kc., station now uses 25 KW with additional 5 KW experimentally KFJF, National Radio Manufacturing Co., Oklahoma City, Oklahoma, amendment filed to application to request a further extension of completion date to October 26, 1930 on C. P. issued 5/12/30; WCFL, Chicago Federation of Labor, Chicago, Illinois, amendment filed to application to request 720 kc., instead of 970 kc. with 50 KW; Milburne O. Sharpe & Robert T. Smith, d/b as Radio Station WLNT, Middlesboro, Ky., amendment filed to application to request 100 watts on 1420 kc.

#### Applications Other Than Broadcasting

September 15 - W6XAJ, Globe Wireless, Ltd., Portable, Cypress, Calif., license to cover C. P. for 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 1 KW, experimental service; WQV, RCA Communications, Inc., Rocky Point, N. Y., renewal of limited public license for 14800 kc., 80 KW; WBL, Radio Corporation of America-Ohio Co., Buffalo, N. Y., modification of licenses covering high frequency transmitters for 4775, 8570 kc., 100 watts, marine relay service and same for 4775, 5525, 8570 kc., 100 watts, coastal service; WLXQ, American Telephone & Telegraph Co., Bradley, Maine, renewal of experimental license for 50 to 75 kc., 25 KW; WLXR, American Telephone & Telegraph Co., portable within State of Maine, renewal of experimental license for 50 to 70 kc., 1 KW.

September 16 - WKQ, RCA Communications, Inc., Rocky Point, N. Y., renewal of limited public license for 16000 kc., 80 KW; W10XZ, C. Francis Jenkins, Unnamed Monoplane, renewal of experimental license for 1608, 2325, 3088, 4785, 6335 kc., 6 watts; W8XT, Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., modification of experimental license to operate simultaneously with WEAF and WGY during hours 6 A. M. to 1 A. M.; W2XAV, Bell Telephone Laboratories, Inc., Ocean Township, N. J., modification of experimental license for 1604 kc., plus 3%, 500 watts; Pan American Airways, Inc., Plane NR-41-V, license for new aircraft on 333, 414, 500, 2662, 3070, 3106, 5690, 8015, 8650 kc., 12 watts; Modesto Irrigation District, Portable, Calif., new C. P.s for 3160 kc., 30 watts, portable, and for 3244 kc., 150 watts, limited commercial service.

# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

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No. 37D

## WYNN RAPS RADIO MEDICAL FAKERS

Charges that many small radio stations are being used by medical fakers for "crying their spurious wares" were made by Dr. Shirley W. Wynne, Health Commissioner of New York, in a radio address last week. Some of the highlights of his speech follow in text:

"The radio is now one of the most useful means of spreading honest, practical public health counsel.

"But unfortunately, the radio can be a two-edged sword - as useful to quacks and commercial healers as to legitimate medical men and organizations. While reputable persons have broadcast health talks under the auspices of State and City Departments of Health, and given helpful and honest advice over large stations, many charlatans, fake doctors and peddlers of strange machines have used the smaller, unsupervised stations as platforms from which to cry their spurious wares.

"We found that many individuals who represented themselves over the radio as physicians, and gave advice on medical matters, were not licensed physicians at all. Self-dosing with numerous quack medicines for a variety of ailments was being urged. Pills, so-called "health foods," compounds supposed to contain roughage, and other patented preparations, were being fraudulently advertised as scientific products made under the direction of physicians.

"We found, in short, that virtually all of the various faddists, exploiters, and the like, who of recent years have been barred from advertising in reputable newspapers and magazines had taken to the radio, where, particularly in smaller stations, they had found a new haven of activity.

"The danger of this is that the charlatan now gains direct access to the family circle, through the radio. His manner is so clever that you cannot tell whether his advice is genuine or whether he is merely trying to sell you something which for your health's sake you should not have.

"In many cases, the devices or medicines sold by these radio fakers had power neither to cure nor to destroy. The menace of these apparently harmless frauds lies in the fact that they do no good. They induce a false sense of security, which may cause the patient to neglect his disease until it is too late."

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## RCA FETE HELD AT CAMDEN

Following, in part, is the New York Times account of the Camden, N. J., celebration on September 19th:

"Camden, 'radio capital of the world', celebrated the back-to-work movement of the RCA-Victor Company, which has increased its force of employees from 4,000 to 22,000 men and women.

"Parades, aerial circuses, concert music, carried over the city by means of giant amplifiers, a procession of industrial floats and flags draped on all the house fronts gave the city a colorful holiday. The events culminated in a dinner at the Walt Whitman Hotel and a fireworks display at the central airport.

"Addresses were made at the dinner by Secretary of Labor James J. Davis, Republican Senatorial nominee in Pennsylvania; Senator David Baird, Jr., of New Jersey; E. E. Shumaker, President of the RCA-Victor Company; David Sarnoff, President of the Radio Corporation of America; A. M. Robertson, Chairman of the Board of the Westinghouse Electric and Manufacturing Company, and Governor Larson of New Jersey.

"The addresses were broadcast through WCAM over a network of fifty-three stations. Graham McNamee was the announcer and C. L. Bardo, President of the New York Shipbuilding Company, acted as toastmaster."

Owen D. Young, Chairman of the Board of the RCA was present but did not speak.

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## ASKS WTMJ HEARING POSTPONEMENT

A motion to defer hearing on the application of Station WTMJ, Milwaukee, for the cleared channel of 870 kilocycles now occupied by Stations WLS and WENR, of Chicago, was filed with the Federal Radio Commission on September 18th by John E. Wing, counsel for the latter station.

In view of the fact that Station WTMJ now has pending before the Court of Appeals of the District of Columbia, an appeal from the decision of the Commission denying it an increase in power from 1,000 to 5,000 watts on the regional channel of 620 kilocycles, Mr. Wing holds that the new application is inconsistent. WTMJ's new application has been designated for hearing on October 6, along with the requests of other stations in the Middlewestern zone for authority to use the maximum power of 50,000 watts, which the station also requests. The motion has been referred by the Commission to its General Counsel, Col. Thad H. Brown, for an opinion.

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## INDEPENDENTS HARASS RCA-VICTOR SPEAKERS

Oswald F. Schuette, Executive Secretary of the Radio Protective Association, sent a warning telegram to Secretary Lamont after it had been announced that the Commerce Department head was to speak at the new plant opening of RCA at Camden.

Secretary Lamont replied that he had cancelled the engagement seven days previously, "on account of important matters here."

Upon learning that Secretary of Labor David had spoken at the meeting, Mr. Schuette issued a statement which read, in part, as follows:

"The fact that Secretary Davis has championed the Radio Trust against Attorney General Mitchell's suit, creates a serious situation for the radio industry - and for all independent business. We had been led to believe that the administration was in good faith behind Attorney General Mitchell.

"In his suit, Attorney General Mitchell specifically charged that 'as part of said unlawful combination, conspiracy and monopoly, Radio Corporation, General Electric and Westinghouse have contracted and agreed to perfect and make more permanent their restraint and monopolization of interstate commerce in radio apparatus by a reorganization of the business in radio apparatus of said three companies by the transfer and conveyance to the Radio Corporation by General Electric and Westinghouse of all property, facilities, and assets used in the manufacture of radio apparatus.' The Camden plant is the result of this transfer.

"In his speech, Secretary Davis congratulated the officials on the fact they had employed 21,000 workers in the Camden plant. 'Industrial leaders who are opening up such new employment,' he said, 'deserve the thanks of the country.' But he said nothing about the fact that thousands of workers had been taken off the payrolls of the Westinghouse Company in his own city of Pittsburgh and in various General Electric, Radio Corporation, Victor, and Telephone company plants to make the Camden consolidation possible, to say nothing of the thousands who had been thrown out of work by the failure of independent radio companies bankrupted by the illegal oppression of the Radio Trust."

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: BUSINESS LETTER BRIEFS :  
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Radio Commissioner Ira E. Robinson foresees a "revolution" of the American radio public against "the overdose of advertising on the radio" unless broadcasters change their methods. Indorsing the views recently expressed by Dr. Lee DeForest, President of the Institute of Radio Engineers, he sent a memorandum to the other Commissioners stating: "The excess of the broadcaster in his greed for commercial returns will assuredly bring the revolution, Dr. DeForest predicts."

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The entire new floor of the Hammerstein Theater building, 1697 Broadway, New York, has been acquired by the Knickerbocker Broadcasting Co., Inc., owner of Station WMCA. Part of the expansion plan is the construction of a theater studio having a seating capacity of 250.

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The New Jersey Board of Public Utility Commissioners has authorized the Atlantic Broadcasting Corporation, subsidiary of the Columbia System, to place the new 50,000 watt transmitter in the State following a prolonged series of hearings. The definite location was not named.

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Robert M. McBride & Company has just issued "Floyd Gibbons: Knight of the Air", by Douglas Gilbert.

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The Columbia Broadcasting System is distributing a novel map of the United States in the modern imitation of the mediaeval style, showing the locations of Columbia stations. The map and the drawings are by Forbell.

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An elaborate radio station, alleged to have been used to communicate with rum runners, was uncovered September 19th at New Bedford, Mass., by Special Agents of the Department of Justice following two months of exhaustive investigation, according to the Associated Press. Two men were arrested.

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The Japanese Communications Department is considering the installation of a radiotelephone circuit with the United States to relieve the present congestion of telegraphic services, according to the Department of Commerce.

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The Army Amateur Radio Control Station has been transferred from Fort Monmouth, N. J., to the Army Message Center in the Munitions Building, War Department, Washington, D. C. The equipment has been installed at the new transmitter plant at Fort Myer, Va.

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The government of Czechoslovakia has just issued its first permits to radio amateurs for the operation of private stations, according to advice to the Department of Commerce. Private communication of this sort has formerly been done secretly and without the consent of the government.

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#### HEINL DISCUSSES UTILITY ISSUE

The question of whether or not a broadcasting station is a public utility is discussed by Robert D. Heidl in an article in the current issue of Public Utilities, fortnightly magazine (Sept. 18) published in Washington.

Among the advocates of the affirmative view quoted are President Hoover (while Secretary of Commerce), Judge Ira E. Robinson, and Representative Ewin L. Davis, of Tennessee.

Contrary view are cited in expressions of opinion by Senator C. C. Dill, of Washington, Judge E. O. Sykes, M. H. Aylesworth, President of NBC, and Henry A. Bellows, former Radio Commissioner.

Copies of the periodical may be obtained for 75 cents each from the publishers, Munsey Building, Washington, D. C.

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## HENDERSON PLEADS FOR MORE POWER

Minus the special train that featured his previous trip to Washington, W. K. Henderson appeared at a Radio Commission hearing Monday with his counsel, Hebert L. Davis, and a mass of evidence and testimony to convince that Station KWKH should be given full time with 30,000 watts power on 850 kilocycles.

Representatives of Station WWL, operated at New Orleans by Loyola University on the same channel with 5,000 watts, were present to fight the application.

Following an introductory statement by Mr. Davis and clashing with the WWL counsel over the submission of certain evidence, Mr. Henderson took the stand and spoke of the work being done by KWKH in behalf of the farmers and in opposition to the chain stores. He wanted more power and time, he said, to reach a greater number of listeners with his campaigns.

Elmer W. Pratt was acting as examiner.

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## SEES BILLION DOLLAR MARK FOR RADIO

The radio industry is shooting for the billion-dollar-a-year-mark, according to J. C. Royle in a copyright story for the Consolidated Press.

"It will not hit the mark this year", he said, "but it confidently expects to be able to do so in the not distant future. The predictions of the men in close touch with the business indicate the radio year 1930-31, commencing this month, will see 4,000,000 receiving sets sold. This would mean a dollar value for the sets alone of over \$450,000,000."

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 18 - WCSO, Wittenberg College, Springfield, Ohio, request for authority to voluntarily assign license to The WGAR Broadcasting Co.; WFJC, W. J. Jones Broadcasting, Inc., Akron, Ohio, request for authority to voluntarily assign license to The WGAR Broadcasting Co.; WGAR Broadcasting Company, Cleveland, Ohio, C. P. to consolidate Stations WFJC and WCS), into a new station with new equipment to operate with 1450 kc., 1 KW, day and 500 W. night with unlimited hours, to locate station at Cleveland; WIS George T. Barnes, Inc., Columbia, S. C., request to amend application so as to request 590 kc., instead of 1010 kc., and 1 KW full time instead of 1 KW day and 500 W. night; KRGV, Valley Radio Electric Corporation, Harlingen, Texas, request to amend application so as to request changes in equipment; WJBY, Gadsden Broadcasting Co., Inc., Gadsden, Alabama, request to amend application so as to request 950 kc., instead of 1210 kc. with 250 watts; WRBL, David Parmer, Columbus, Georgia, request to amend application so as to request 1240 kc., instead of 970 kc., and 500 W. day and 250 W. night, instead of 1 KW.

Also, WCBS, Charles H. Messter & Harold L. Dewing, Springfield, Illinois, request to amend application so as to request an extension of completion date on C. P. to September 30, 1930; WKBS, Permil N. Nelson, Galesburg, Ill., request to amend application so as to request 1110 kc., instead of 750 kc., with 2 KW; Meade Johnston, Tuscaloosa, Alabama, request to amend application so as to request authority to locate station at 16 University Heights instead of 2625 Broad St., and daytime hours instead of 5 hours daily; George O. Sowell, Kosciusko, Miss., request to amend application so as to request daytime hours instead of 3 hours daily.

September 19 - WROL, Stuart Broadcasting Corporation, Knoxville, Tenn., modification of C. P. to move transmitter and studio locally, under C. P. issued 8/26/30; KGHL, Northwestern Auto Supply Company, Billings, Montana, license to cover C. P. issued 5/16/30 to move transmitter and studio to 6 miles from Billings, install new equipment, and increase power from 500 W. to 1 KW, on 950 kc.; KROW, Educational Broadcasting Corp., Richmond, Cal., C. P. to make changes in equipment and increase power from 1 KW day and 500 W. night to 1 KW day and night on 930 kc.; Keystone Broadcasting Co., St. Clair Twp., Pennsylvania, request to amend application so as to request limited time instead of unlimited on 830 kc.

September 20 - WTBO, Associated Broadcasting Corp., Cumberland, Maryland, application for C. P. amended to request 620 kc. instead of 1410 kc., with 250 W., unlimited; KSTP, National Battery Broadcasting Co.,  $\frac{1}{2}$  mile north of Westcott, Minn., modification of C. P. to extend completion date on C. P. to December 20, 1930; WHBL, Press Publishing Company, Sheboygan, Wis., license to cover C. P. issued 8/26/30 to install a new transmitter; KFEQ, Scroggin & Company Bank, St. Joseph, Mo., license to cover C. P. issued 5/20/30 to make changes in equipment.

## Applications Other Than Broadcasting

September 17 - W2XAG, General Electric Co., So. Schenectady, N. Y., renewal of experimental license for 550, 660, 790, 1150, 1500 kc., 200 KW, morning and 50 KW afternoon and evening; KGTE, Aeronautical Radio, Inc., Avalon, Catalina Island, Calif., C. P. for new phone transmitter on 3070, 3460 kc., 50 watts, aeronautical and point-to-point aeronautical service; Aeronautical Radio, Inc.; WAED, Harrisburg, Pa., WAEC, Pittsburg, Pa., WAEF, Newark, N. J., WAEE, Camden, N. J., C. P.s for new stations on 393, 400, 414, 420 kc., 100 watts, aeronautical service; KGSX, San Diego, Calif., renewal of aeronautical license for blue chain frequencies 400 watts; Boeing Air Transport, Sacramento, Calif., KFM, assignment of aeronautical license to Aeronautical Radio, Inc., W2XBS, National Broadcasting Co., Portable, N. Y. C., C. P. for change in location and installation of new equipment, 2000-2100 kc., 5 KW, experimental television; Perkins Bros. Co., Sioux City, Ia., new C. P. for 2100 kc., 1 KW, experimental television.

September 18 - WEG, RCA Communications, Inc., New Brunswick, N. J., modification of license to change location of transmitter from Rocky Point, N. Y., to New Brunswick, N. J.; KGOY, City of San Antonio, Police, Dept. San Antonio, Texas, modification of C. P. for extension of time of construction from 11/30/30 to 2/28/31; W9XU, Mona Motor Oil Co., Council Bluffs, Iowa, renewal of experimental relay broadcasting license for 6060 kc., 500 watts; KGUG, Aeronautical Radio, Inc., Big Springs, Texas, license to cover C. P. for 278, 3484, 5600 kc., 250 watts; WPDE, City of Louisville, Louisville, Ky., license to cover C. P. for 2440 kc., 200 watts, limited commercial police service; WSS, RCA Communications, Inc., Rocky Point, N. Y., renewal of limited public license for 18.80 kc., 200 KW; Varney Air Lines, Inc., NC-10338 (Plane) new license for aircraft on 3106 kc., 50 watts; WGG, RCA Communications, Inc., Tuckerton, N. J., renewal of limited public license for 22.1 kc., 200 KW.

September 19 - Murry J. Mercier, Columbus, Ohio, C. P. for 3000 kc. or higher, 1 KW, experimental television service; WSC, Radiomarine Corp. of America, Tuckerton, N. J., C. P. for additional short wave transmitter on 5525, 11050, 16580, 22100, 6485, 8350, 8370, 12820, 12520, 12670, 13210, 13780, 21700, 21740, 21780, 21820 kc., 70 KW, coastal service; KGKM, City of Beaumont, Beaumont, Texas, modification of C. P. for extension of C. P. from 11/1/30 to 2/1/31; W7XD, Libby, McNeill & Libby, Libbyville, Alaska, renewal of experimental license for 1540, 3184 kc., 50 watts; WTF, United States Liberia Radio Corp., Akron, Ohio, modification of limited public license to cover high frequency transmitter for 19780 kc., 750 watts; W8XAH, Buffalo Broadcasting Corp., Plane NC-9809, license to rebroadcast from airplane during flight of French Trans-Atlantic fliers from Buffalo, on 2368 kc., 10 watts; WRQ, RCA Communications, Inc., Marion, Mass., renewal of limited public license for 22.35 kc., 200 KW; WLOXI, Aircraft Radio Corp., Plane NC-9746, renewal of experimental aircraft license for 3076, 5155 kc., 20 watts; WMI, City of Buffalo (Police Dept.), Buffalo, N. Y., license to cover C. P. for 2422 kc., 300 watts, limited commercial service; WCI, RCA Communications, Inc., Tuckerton, N. J., renewal of limited public license for 18.4 kc., 200 KW.

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## DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission on September 19th granted the following applications:

WDBO, Orlando Broadcasting Co., Inc., Orlando, Fla., C. P. to make changes in equipment; KUSD, University of South Dakota, Vermillion, S. Dak., modification of license to move main studio locally; WCFL, Chicago Federation of Labor, Chicago, Ill., authority to amend application for 50 KW power substituting frequency 720 kc., for 970 kc.; KRMD, Robert M. Dean, Shreveport, La., license on 1310 kc., 50 watts, sharing with KTSL (C.P. authorized moving of transmitter and studio locally); KGFI, Eagle Broadcasting Co., Inc., Corpus Christi, Texas, license 1500 kc., 250 watts day and 100 watts night, unlimited time; KJBS, Julius Brunton & Sons Co., San Francisco, Cal., license to cover C.P. 1070 kc., 100 watts, hours 12:01 A.M. to local sunset; WOPI, Radiophone Broadcasting Station, WOTI, Inc., Bristol, Tenn., license to cover C. P. 1500 kc., 100 watts, unlimited time; KTAP, Alamo Broadcasting Co., Inc., San Antonio, Texas, license for relocation of studio and transmitter, 1420 kc., 100 w., unlimited time;

Also, WEAO, Ohio State University, Columbus, O., license to cover C. P. 570 kc., 750 w., shares with WKBN; WDAG, National Radio & Broadcasting Corp., Amarillo, Texas, modification of C.P. extending completion date to September 27, 1930; KFYR, Meyer Broadcasting Co., Bismarck, North Dakota, modification of C. P. extending completion date to October 15, 1930; WCBS, Harold L. Dewing & Jas. M. Messter, Springfield, Ill., modification of C.P. to change equipment from low to high level modulation and extend completion date to 9/30/30; WODA, Richard E. O'Dea, Paterson, N.J., license 1 KW on 1250 kc., this case was scheduled for hearing in October for violation of G.O. 78, licensee now complies with rules, and renewal of license will be made at expiration of present period; KMLB, J. C. Liner, Monroe, La., authority to operate experimentally unlimited hours until October 1st; WBEC, M. H. Clarke, Rochester, N. Y., authority to operate auxiliary transmitter for period of 1 week, while making changes in equipment.

Also, Aeronautical Radio, Inc.; Newark, N. J., Harrisburg Pa., Camden County, N. J., Pittsburgh, Pa., Springfield, Mo., Robertson, Mo., Columbus, Ohio, Indianapolis, Ind., C. P.'s for stations indicated; 3082 kc., unlimited time; 5510 kc., daylight; 278 kc with maximum power of 15 watts, with itinerant aircraft only; power 400 watts, A1 and A3 emission to communicate with aircraft and ground stations on blue chain; also, KGTI, Los Angeles, Cal., KGSE, Amarillo, Texas, KGTD, Wichita, Kans., KGSD, Albuquerque, N.M., KGTJ, Las Vegas, Nev., KGTH, Salt Lake City, Utah, C. P. frequencies as follows: 3070, 3460, 5540\*, 6350, 278 (Maximum power 15 watts,) with-itinerant-aircraft-only; power 400 watts, unlimited time, 8015 day only, 12180 day only; A1 and A2 emission, with communication with aircraft and stations on blue chain. Freqs. other than 5540 are temporarily assigned until it is determined by Commission what changes shall be made in frequency allocations of G.O. 94.

\*Authorized on temporary basis for period not to exceed 60 days.



Also, KGTL, and KGTA, Aeronautical Radio, Inc., Kingman, Arizona, renewal of licenses same as above; W9XV, Ozark Radio Corp. of Carterville, Carterville, Mo., renewal of license, frequency 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 100 watts; A3 emission; 4 A.M. to 5A.M. and 1:30 to 2:30 P.M.; W2XCZ, National Broadcasting Co., Inc., Portable, Bronx Zoo, New York City, renewal of license, frequency 2392 kc., 7½ watts, to be used as pickup program service for rebroadcast purposes; WQX, RCA Communications, Inc., Rocky Point, N. Y., modification of license for additional transmitter, 2018 kc., 80 KW, A1 and A2 emission, points of communication from Brussels, Belgium to Monrovia, Capetown, Pernambuco, Manila, and any other stations with which RCA is licensed to communicate; WCU, Continental Oil Co., Portable #2, Ponca City, Okla., modification of license to increase power from 10 to 50 watts; WBF, Tropical Radio Telegraph Co., Boston, Mass., license to cover C.P. 6770, 10450, 17580, 12940 kc., 1 KW, unlimited time; W7XA, Globe Wireless, Ltd., Portable, Portland, Oregon, license to cover C. P. 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 1 KW; KGJX, City of Pasadena, PoliceDept., Pasadena, Cal., authority to operate transmitter (now licensed for police service with 50 watts) with 400 watts, for temporary period of 10 days, to demonstrate to surrounding cities the efficiency of emergency police service; W8XAV, Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa., authority to suspend operation until Jan. 1, 1931 (license expires Nov. 10/30); Geophysical Research Corp., Portables #29 to 41, modification of 13 licenses to operate in 4th and 5th zones, now licensed to operated in 3rd zone; Ship Licenses - 17 renewals, 1 new and 15 modification of licenses.

### Set For Hearing

KGBZ, Dr. George R. Miller, York, Neb., asks for cancellation of hearing scheduled to be held in October upon the renewal of his license; this request denied and hearing will be held; KFOR, Howard A. Shuman, Lincoln, Neb., asks for C. P. to install new equipment with maximum power of 1 KW, change frequency from 1210 to 930 kc., change power from 250 w. day and 100 w. night to 1 KW day and 500 watts night; hours of operation from unlimited to sharing with KMA equally; WMMN, Holt-Rose Novelty Co., Fairmont, W. Va., asks for C. P. to make change in equipment increasing maximum power of equipment from 500 to 1000 watts; D. H. Castille, New Iberia, La., asks for C. P. 630 kc., 500 w., unlimited time; Thomas Arnath, Linden, N. J., asks for C.P. 1180 kc., 75 watts, 6 hours per day.

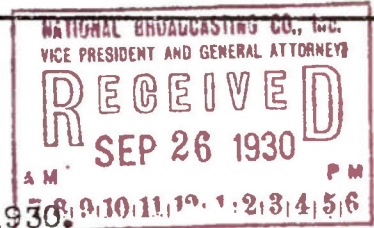
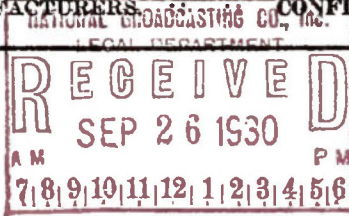
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# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. **CONFIDENTIAL—NOT FOR PUBLICATION.** :: ::



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No. 371

SUBSCRIPTION PRICE, \$10. PER MONTH. NO CONTRACT REQUIRED.

## HIGHLIGHTS OF RADIO SHOW OPENING

Some of the outstanding radio sets exhibited at the opening of the Seventh Annual Radio World's Fair at Madison Square Garden, N. Y., are described, in part, as follows in the New York Times:

"The majority of the new sets are equipped with a small knob which enables the listener to regulate the tonal quality from bass to treble. This is heralded by radio engineers as one of the outstanding developments of the year because it makes listening-in more pleasing to the auditor in that he can favor the low rumble of the kettle drums or turn the knob in the other direction and give the high pitch of the violin the dominating role in the performance.

"Home recording is a new feature in which visitors displayed considerable interest. This is effected by a closer alliance between the broadcast receiver and the phonograph.

"The screen-grid tube is all-popular this season. Manufacturers who did not adopt it last year have now included it in their 1930-31 circuits. The majority of sets employ three or four of the screen-grid bulbs, which are said to increase the distance range, the tone quality and the sharpness of tuning.

### Sets More Compact

"The cabinet designers have cooperated with those who built the electrical chassis to make the new sets more compact. There are consoles of all descriptions, representing many different periods of furniture design. More than fifty manufacturers have introduced midget sets, the general style of which resembles a mantel clock. These sets are extremely compact, yet they include a complete radio circuit with screen-grid tubes and loud-speaker. The manufacturers assert that there is a good demand for these small outfits.

"There are alternating current receivers, direct current machines and new battery-operated sets made possible by the No. 230 type of 2-volt tube. They are expected to improve reception on the farm and in sections where the proper house lighting current is not available. Data supplied with the tubes indicates an improvement in efficiency compared with the old style UX-199 bulb. There is also an improved battery-operated power tube No. 231 and a battery-operated screen-grid No. 232.

## "Breathing Battery"

"Linked with the development of this latest tube is a new battery introduced by the National Carbon Company. It is called a 'breathing battery' because of its small 'lungs' built of specially constructed carbon blocks literally hungry for oxygen. The cells are kept alive by absorbing oxygen from the air.

"This battery, according to the designers, will give service for at least 1,000 hours when supplying current for not more than seven bulbs. The voltage is said to be almost constant throughout the life of the battery. Furthermore this air cell makes it possible to design 2-volt tube receivers without the manually operated rheostats, filament voltmeters and devices to guard against premature burn-out of tubes. All the new receiver requires for filament control is a simple on-off switch.

"There are few table model receivers this year. The console is the popular machine, although there is a trend in the cabinet design to get away from the standard console and to make radio inconspicuous in the home. The sets are hidden in a grandfather clock, Duncan Phyfe table, a William and Mary desk, a Queen Anne desk and in a desk secretary."

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## NO LAW IN NEW AIR RACKET

The sky is the limit in the rebroadcasting of radio programs and the amplification of phonograph records from an airplane for advertising purposes. To date there is no Federal statute to prevent pilots from reaping a rich harvest from this new racket, and municipalities, even though they have laws prohibiting such nuisances, are often powerless to enforce them.

The District of Columbia, which has been annoyed several times recently by an out-of-town aviator with a far-reaching amplifying apparatus, has just been informed by Clarence M. Young, Assistant Secretary for Aeronautics, Department of Commerce, that nothing can be done by the Federal Government to penalize the pilot for boldly disobeying a District ordinance.

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## RMA FAVORS HIGH POWER

The Radio Manufacturers' Association, which met last Monday at the Hotel Astor, New York City, recommended to the Federal Radio Commission that it sanction an increase in the number of high-power stations on cleared channels in the interest of better broadcasting for the public.

The recommendation was in the form of a letter sent to the Commission by Morris Metcalf, President of the Association, which received the approval of the Radio Manufacturers' Association Board of Directors at the annual meeting.

The Board also approved and endorsed the plan proposed in the Senate resolution to transfer the Department of Commerce Radio Division and its activities to the jurisdiction of the Radio Commission, pending final disposition of legislation to establish a Federal communications body. Another recommendation had to do with the protection of the interests of manufacturers and broadcasters in pending copyright royalty legislation.

Mr. Metcalf, in his letter to the Radio Commission, favored the "deletion of stations not performing a real service to the public", and recognized the present overcrowding of the air as an evil which it is hoped the Commission will remedy.

The RMA Board also accepted an invitation to cooperate with electrical organizations in the preparation of a telegraph and cable code for the radio and electrical trade.

Preliminary plans for the 1931 annual RMA Trade Show were reported by Major H. H. Frost, of New York, preceding a Committee meeting which received applications from Pittsburgh, Chicago, Detroit and St. Louis for the show. More business and less carnival is to be the keynote of the 1931 show, the time and place for which will be chosen later.

Plans for greater service to the radio public in eliminating interference with radio reception were discussed by H. B. Richmond, of Cambridge, Mass., Director of the RMA Engineering Division preceding its meeting on Wednesday last.

Plans to expand and make the RMA credit service more valuable to the membership were presented to the Board by Leslie F. Muter, of Chicago, Chairman of the Credit Committee.

A new credit and collection manual has been issued to all RMA members and this is declared to be of greater value to the larger, as well as the smaller manufacturers.

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## RCA RADIOTRON STATION DIRECTORY

A compact broadcast station directory, listing stations by their call letters, has just been issued by the RCA Radiotron Company at Harrison, N. J. It easily fits into one's side pocket, though comprising 52 pages, and is made unusually attractive and readable by a series of biographical sketches by Charlotte Geer of the principal radio announcers of the NBC, Columbia and several individual stations.

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## SCIENTISTS WARY ON SUN SPOTS

Broadcasting reception will improve as the weather becomes colder, but there is no scientific basis for the prediction in trade circles that it will be better than last Fall and Winter or any of the previous seasons.

Government scientists who have been making a study of the possible effect sun spots have on radio reception, feel that their research hasn't gone far enough to enable them to make any prediction. Besides, Old Sol has been acting up this Summer in peculiar fashion, and that makes them even more wary.

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## SEEK TO DISMISS WISJ ORDER

A motion to dissolve the temporary restraining order against the Federal Radio Commission, which was granted September 15th in the case of Atlass Co., Inc., (owners of WBBM), v. Radio Commission, to prevent the operators of Station WISJ, of Madison, Wis., from broadcasting temporarily on the 780 kilocycle channel, was filed September 23rd in the Supreme Court of the District of Columbia.

The motion was filed by the Wisconsin State Journal Broadcasting Company, intervenor in the case.

Judge O. R. Luhring, of the District Supreme Court on September 24th granted an order continuing the temporary restraining order by WBBM against the Federal Radio Commission and Station WISJ.

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: BUSINESS LETTER BRIEFS :  
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Fall is bringing a marked increase in radio orders, according to Mr. Andrea, President of the FADA Radio Co., who announced an increase in production of 50 per cent at his plant.

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Fifty-one of the 91 elements known to man are used in the manufacture of RCA Radiotrons, according to engineers of the RCA Radiotron Company, Inc. No other product utilizes so many elements, they state, and few devices require such fine material or such skill in the making.

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Arrangements have been completed for the establishment of a beam wireless service for the exchange of daily letters and weekend messages between Australia and France, according to a dispatch received in the Department of Commerce from Assistant Trade Commissioner H. P. Van Blarcom, Sydney. Amalgamated Wireless (Australasia), Ltd., are putting in this service, which also will include Algeria and Tunis.

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Naval aviators have discovered a way to use broadcasting stations without have to listen to them. Lt. Comdr. D. B. Duncan, United States Navy, of the Bureau of Aeronautics, on a flight from Hartford, Conn., to Boundbrook, N. J., tuned in his radio compass set on Station WJZ, situated in the latter place.

Visibility was poor, and in addition, the course across Manhattan led through considerable smoke and haze. Radio compass bearings taken by Lt. Comdr. Duncan on the broadcasting station led him directly to Boundbrook.

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Walter C. Evans, Westinghouse engineer, appeared in opposition to the application of Station KBTM, Paragould, Ark., for a transfer from 1200 to 990 kilocycles and from 100 to 500 watts, at a hearing on September 24th. He said the change would seriously interfere with WBZA, Boston, and WBZ, Springfield, Mass., which now occupy the 990 kc. channel. The Commission counsel pointed out that the frequency is assigned to the First Zone in accordance with General Order 40 and that the applicant is in the Third Zone.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 22 - WABC-WBOQ, Atlantic Broadcasting Corp., New York, N. Y., Modification of C. P. to obtain approval of location selected for 50 KW station,  $\frac{1}{2}$  mile from Wayne, N. J., and an extension of completion date to February 1, 1931; KGRS, E. B. Gish (Gish Radio Service), Amarillo, Texas, modification of C. P. to extend completion date on C. P. to Nov. 1, 1930; KFGQ, Boone Biblical College, Boone, Iowa, modification of C. P. to extend completion date on C. P. to November 20, 1930; WMBD, E. M. Kahler, owner, Peoria Heights Radio Laboratory, Peoria Heights, Illinois, license to cover C. P. issued 6/2/30 to rebuild transmitter; KPJM, A. P. Miller & George R. Klahn, d/b as Miller & Klahn, Prescott, Arizona, modification of C. P. to extend completion date on C. P. to October 4, 1930; KFRC, Don Lee, Inc., San Francisco, Calif., C. P. to move transmitter to a location to be determined, install new equipment, change frequency from 610 kc., to 680 kc., and increase power from 1 KW to 50 KW.

September 23 - WMRJ, Peter J. Prinz, Jamaica, N. Y., license to cover C. P. issued 5/19/30 authorizing increase in power from 10 watts to 100 watts and installation of new equipment; also requests authority to use 10 watt transmitter at same location as an auxiliary; WSAN, Allentown Call Publishing Co., Inc., Allentown, Penna., license to cover C. P. issued 5/29/30, authorizing move of transmitter to Mizpah Grove, Allentown, and installation of new equipment, also requests authority to use old equipment at old location as an auxiliary; WHBY, St. Norbert College, West De Pere, Wisconsin, license to cover C. P. issued 6/10/30, authorizing move of transmitter to U. S. Highway #41, near DePere, Wis., and installation of new equipment; also requests authority to use old equipment at old location as an auxiliary; also, modification of license to move main studio to Green Bay, Wisconsin; WIBO, Nelson Brothers Bond & Mortgage Company, near Des Plaines, Ill., modification of license to change hours of operation from sharing with WPCC and WISJ to unlimited on 560 kc.; KGCR, The Greater Kameska Radio Corp., Watertown, S. D., C. P. to move transmitter to the shore of Lake Kameska, 6 miles west of Watertown, and studio to 22-24 North Maple St., Watertown.

Also, WMBH, Edwin D. Aber, Joplin, Missouri, C. P. to move transmitter to a location in Joplin, not yet determined, install new equipment, change frequency from 1420 kc. to 1230 kc., and increase power from 250 W. day and 100 w. night to 1 KW unlimited; WCAL, St. Olaf College, Northfield, Minn., C. P. to install new equipment, change frequency from 1250 kc. to 990 kc., increase power from 1 KW to 5 KW and change hours from sharing with KFMX, WLB, and WRHM to daytime; KIDO, Frank L. Hill & C. G. Phillips, d/b as Boise Broadcast Station, Boise, Idaho, license to cover C. P. issued 6/11/30 authorizing a move of transmitter to 1-9/10 miles from the center of Boise, changes in equipment, and unlimited hours of operation; also requests authority to operate an auxiliary transmitter at the old location (9th and Jefferson Sts.); Ned Lewis Reglein, Michigan City, C. P. to erect a new station to use 1240 kc., 250 w., and hours up to 7:00 P. M.; W. T. Hamilton, Greenville, S. C., C. P. to erect a



new station to use 1240 kc., 500 w., and unlimited hours; Hugh Suffron & E. G. Storer, d/b as Suffron-Storrer Company, Peebles, Ohio, C. P. to erect a new station to use 1310 kc., 50 watts, and unlimited hours.

### Applications Other Than Broadcasting

WCC, Radiomarine Corp. of America, Marion, Mass., license to cover C. P. for new high frequency transmitter, public coastal service. Calling: 5525, 11050, 16580, 22100; Working: 6455, 6470, 8430, 12640, 12580, 16740, 21860, 21900 kc., 40 KW; also C. P. for new high frequency transmitter, public coastal service, frequencies same as above, power 70 KW; KIE, RCA Communications, Inc., Kahuku, T. H., renewal of public point to point license, 18 kc., 200 KW; KGI, RCA Communications, Inc., Kahuku, T. H., renewal of public point to point license, 18.6 kc., 200 KW; Bell Telephone Laboratories: Portable - license for special experimental service, 4752.5, 6755, 8630, 9170, 9750, 9870, 12840, 13390, 10550, 14470, 14590, 16270, 18340, 19220, 21060, 17120, 21420 kc., 1 KW; Ocean Township, N. J., license for special experimental service, frequencies same as above, power 5 KW; also, Portable, license for special experimental service, power 1 KW, frequencies same as above; also, Deal, N. J., license for special experimental service, power 20 KW, frequencies same as above.

September 23 - WSC, Radiomarine Corp. of America, Tuckerton (Ocean Twp.), N. J., license covering C. P. for additional transmitter coastal service on 5525, 11050, 16580, 22100, 6485, 8350, 8370, 12810, 12520, 12670, 13210, 16780, 21700, 21780, 21820 kc., 21740 kc., 40 KW; Pan American Airways, Inc.: KHFDW, Airplane NC-810-H, KHFJQ, Airplane NC-813-H, KHFIR, Airplane NC-814-H, renewal of aircraft licenses on 333, 414, 500, 2662, 3070, 5690, 8015 kc., 12 watts; Radiomarine Corp. of America: KSE, Torrance, Calif., coastal C. P. for additional transmitter at Station KSE on 5525, 11050, 16580, 22100, 6485, 12430, 8430, 12490, 22040, 22520 kc., 350 W.; KPH, Bolinas, Calif., coastal C. P. for additional transmitter on 5525, 11050, 16580, 22100, 6500, 8390, 12550, 12730, 16700, 21940, 21980 kc., 70 KW; RCA Communications, Inc.: KQZ, Bolinas, Calif., renewal of point-to-point public license on 17980 kc., 80 KW; KQR, on 18040 kc.; KEZ, on 10400 kc.; KER, on 10390 kc.; KKR, on 15460 kc., all renewals of point to point public licenses, situated at Bolinas, Calif., 80 KW; Magnolia Petroleum Co., Beaumont, Texas, WOD, assignment of license to Magnolia Radio Corporation, and license for public coastal service on 500, 437.7 kc., 500 watts.

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## HEARINGS SCHEDULED BY FEDERAL RADIO COMMISSION

October 7 - KFUL, Will H. Ford, Galveston, Texas, renewal of license 1290 kc., 500 w., divides with KTSA.

October 13 - KTNT, Norman Baker, Muscatine, Ia., renewal of license, 1170 kc., 5 KW, LT; WHEC-WABO, Hickson Electric and Radio Corp., Rochester, N. Y., renewal of license, 1440 kc., 500 w., divides with WOKO; KBPS, Benson Polytechnic School, Portland, Ore., renewal of license, 1420 kc., 100 w., divides with KXL; KGAR, Tucson Motor Service Co., Tucson, Arizona, renewal of license, 1370 kc., 100 w., unlimited time 250 W., LS.; KTRH, The Rice Hotel, Houston, Texas, renewal of license, 1120 kc., 500 w., divides with WTAW; KGMP, Homer F. Bryant, Bryant Radio & Electric Co., Elk City, Okla., renewal of license, 1210 kc., 100 w., unlimited time; KGBZ, Dr. George R. Miller, York, Neb., renewal of license, 930 kc., 500 w., 1 KW, L S., divides with KMA.

October 14 - Renewals of Licenses: WCLS, WCLS, Inc., Joliet, Ill., 1310 kc., 100 w., divides with WKBB; WKBQ, Standard Cahill Co., Inc., New York City, 1350 kc., 250 w., divides with WBNY, WMSG, WCDA; WKBO, Camith Corp., Jersey City, N. J., 1450 kc., 250 w., divides with WBMS, WNJ, WHOM; WELL, Enquirer-News Co., Battle Creek, Mich., 1420 kc., 50 w., unlimited time; Paul J. Gollhofer, Brooklyn, N. Y., WMBQ, 1500 kc., 100 w., divides with WCLB, WWRL, WLBX; WCOA, City of Pensacola, Fla., Pensacola, Fla., 1340 kc., 500 w., unlimited time; WRBI, Kents Furniture and Music Store, Tifton, Ga., 1310 kc., 20 w., one-half time; WGCM, Great Southern Land Co., Gulfport, Miss., 1210 kc., 100 w., unlimited time; WWRL, Long Island Broadcasting Corp., New York City, 1500 kc., 100 w., divides with WMBQ, WLBX, WCLB; WLTH, Voice of Brooklyn, Inc., Brooklyn, N. Y., 1400 kc., 500 w., divides with WCGU, WBBC, WSGH, WSDA; WEVD, Debs Memorial Radio Fund, Inc., New York City, 1300 kc., 500 w., divides with WBBR, WHAP, WHAZ; WMAV, Kingshighway Presbyterian Church, St. Louis, Mo., 1200 kc., 100 w., 250 w. LS, divides with KFWF, WIL; WBRE, Louis G. Baltimore, Wilkesbarre, Pa., 1310 kc., 100 w., unlimited time.

October 15 - KMPC, R. S. MacMillan, Beverly Hills, Cal., renewal of license, 710 kc., 500 w. LT.

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## DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission granted the following applications on September 23rd:

WBF, Tropical Radio Telegraph Co., Boston, Mass., C. P. to change location of transmitter from Boston to Hingham, Mass., install 2 new transmitters to replace the two now licensed, and add a third high-powered transmitter rated at 20 KW; WIXT, same Co., C. P. to move transmitter from Boston to Hingham, Mass.

KGTC, Aeronautical Radio, Inc., Kansas City, Mo., C. P. to install new transmitter outside of Kansas City, frequencies 3070, 3082, 5510, 5540 (for period of not to exceed 60 days), 278 (with power of 15 w) unlimited time; 400 3atts power; A1, A2 and A3 emission; to communicate with aircraft in flight and other blue chain stations; frequencies other than 5540 are temporarily assigned until further action by Commission; WAL, American Radio News Corp., New Rochelle (Westchester), N. Y., modification of C. P. to move transmitter from New Rochelle to Carlstadt, Bergen County, N.J., and change type of equipment to composite VT CW with same power, 10 KW and same frequencies, 95 and 99 kc., same points of communication; W3XAJ, RCA, Victor Co., Inc., Camden, N. J., license to cover C. P. frequencies 1604, 2398, 3256, 4795, 6425, 8650, 12850 and 17300 kc., 250 watts; W3XAD, RCA Victor Co., Inc., Camden, N.J., modification of C. P. to change frequencies from 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300, to 17300, 25700, 34600, 50100 and 60000 to 400,000 kc.

Also, KGX, Globe Wireless Ltd., Cypress, Cal., license to cover C. P. 7430, 7347.5, 7445, 9410, 10930, 14860, 14875, 14890, 18820, 22700 kc., 1500 w., unlimited time; W2XBO, United Research Corp., Long Island, N. Y., modification of C. P. to extend completion date to 6/30/31; WPDP, Bureau of Police, Dept. of Public Safety, Philadelphia, Pa., modification of C. P. to extend completion date to 11/1/30; KSA, Globe Wireless, Ltd., Edmonds, Wash., modification of C. P. to extend completion date to Nov. 4, 1930; RCA Communications Inc., Rocky Point, N. Y.: WEB, modification of license to include additional transmitter; 6395 kc., 80 KW, to change points of communication to read "Warsaw, Copenhagen and other stations with which RCA Com. Inc. is licensed to communicate with"; WIY, modification of license same as above except frequency 13870 kc., 80 KW power; WQV, modification of license for additional transmitter 14800 kc., 80 KW, points of communication: Havana, Manila and other stations with which RCA is licensed to communicate with; WQY, modification of license for additional transmitter, frequency 20100 kc., 80 KW, communicate with Oslo, etc; WBU, modification of license for additional transmitter 21260 kc., 80 KW to communicate with Warsaw, Copenhagen, etc.; W2XS, modification of license to change frequencies from 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., to 34600, 60,000-400000 and above 401000 kc. power 10 KW; W2XBI, modification of license to change frequencies to 50100, 60000-400000 and above 401000 kc., 10 KW power; WKO, modification of license to include additional transmitter, freq. 15970 kc., 80 KW to communicate with Bogota and other stations, etc.

Also, W3XAD, RCA Victor Company, Inc., Camden, N. J., modification of license to change frequency to 2100-2200 kc., 500 watts; W2XBB, Radio Corp. of America, Brooklyn, N. Y., modification of license to change frequencies to 25700, 34600, 60000-400000 and above 401000 kc., 1 KW; W9XAM, Elgin National Watch Co., Elgin, Ill., renewal of license, frequency 4795 kc., 500 watts, unlimited time; KSE, Continental Oil Co., Ponca City, Okla., renewal of license, frequencies, 1600, 1652, 1664, 1680 and 1704 kc., 50 watts power; City of Oklahoma, Oklahoma City, Okla., C. P. for police service on 2452 kc., 75 watts; W6XM, University of California, Berkeley, Cal., renewal of license, frequencies 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 1 KW.

Also, RCA Communications, Inc.; WET, Rocky Point, N. Y., renewal of license, frequency 9470 kc., 80 KW, unlimited time; WAZ, New Brunswick, N. J., renewal of license frequencies 7415, 14920, 17860 kc., 80 KW; A1 and A2 emission to communicate with Havana, Cartago, Costa Rica (San Jose), Managua, Nicaragua and other stations, etc.; WQH, Rocky Point, N. Y., renewal of license, frequencies 1880 kc., 80 KW, A1, A2 and A3 emission, to communicate with London and other stations, etc.; WQS, renewal of license, frequency 13915 kc., 80 KW, to communicate with Rome and other stations; WQG, renewal of license, frequency 15040 kc., 80 KW, to communicate with San Juan, S. Martin, Santo Domingo, and other stations, etc.; Radio Pictures, Inc., Long Island City, N. Y.: W2XAH, renewal of license, frequencies 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 500 watts, the use of 1604 kc. during hours of 4 to 5 P. M. and 9 to 10 P. M. for experimental visual broadcasting with station W2XR; W2XB, Same, renewal of license frequencies 2850 to 2950 kc., 2100 to 2200 kc., 500 watts; WRDO, Albert S. Woodman, Augusta, Maine, modification of C. P. to extend completion date to 12/9/30; KTAB, The Associated Broadcasters, Inc., San Francisco, Cal., modification of license to change power from 500 w. with 500 w. experimentally to 1 KW, unrestricted; KGNO, Melvin A. McCollom, Dodge City, Kans., consent to voluntarily assign of license to Dodge City Broadcasting Co., Inc.; WILL, University of Illinois, Urbana, Ill., authority to install automatic frequency control. Ship Licenses: 1 new, 5 modification of licenses and 3 renewals

### Set For Hearing

American Rolling Mill Co., Ashland, Ky., asks for C. P. to install a low-power radio telephone transmitter in office of their yard locomotive dispatcher, in order to communicate with yard locomotives which operate within a radius of 2½ miles, and which will be equipped with similar transmitters; also, on Locomotive, Ashland, Ky., asks for license to operate low-power radio-telephone transmitter on one of their yard locomotives, 2440 kc., 50 watts; WTFI, Toccoa Falls Inst., Toccoa, Ga., asks for C. P. to move studio and transmitter from Toccoa to Cox College, College Park, Ga., and make changes in equipment; O. O. Black, Birmingham, Ala., asks for C. P. 1010 kc., 500 watts daytime 250 w. night, unlimited time; also portable to test for location (This application which was originally for 1200 kc. was set for hearing and is now amended as above); KGJF, National Radio Mfg. Co., Oklahoma City, Okla., asks for C. P. to extend completion date to 10/26/30; WCDA, Italian Educational Broadcasting Co., New York City, asks for modification of license to change hours of operation from sharing with WKBQ, WMSG, and WBNY to unlimited; KFGQ, Doone Biblical College, Boone, Ia., asks for modification of license to increase hours of operation (now has 1310 kc., 100 w., sharing with KFJY and KWCR); WCAH, Commercial Radio Service Co., Columbus, Ohio, asks for modification of license to increase power from 500 w. to 1 KW day and 500 w. night.

### Applications Dismissed

The following were set for hearing but applicants have desired to withdraw; William H. Heinz, Trustee, Seaboard Broadcasting Corp., Ltd., requested C. P. to erect new station, 860 kc., 1 KW, unlimited time; Indiana's Community Broadcasting Corp., requested C. P. for new station 590 kc., 500 w.; Myron E. Kluge, Scottsbluff, Neb., requested C. P. to erect experimental station to use 6000-6150 kc., 2 KW; WDSU, Joseph H. Uhalt, New Orleans, La., requested C. P. to install new equipment, change frequency to 850 and power to 5 KW, also modification of license to change frequency and hours of operation; Williamson Motors, Inc., Vivian, La., requested C. P. to erect new station to use 1210 kc., 10 watts, unlimited time; KWLC, Luther College, Decorah, Ia., requested modification of license for additional hours of operation; Omaha Tanning Co., Omaha, Nebraska, requested C. P. to erect new station to operate on 710 kc., 1 KW, unlimited time; WFJC, W. F. Jones Broadcasting, Inc., Akron, Ohio, requested C. P. to install new equipment, change frequency to 900 kc., increase power to 1 KW and unlimited time.

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### SECOND ZONE STATIONS ASK MAXIMUM POWER

Stations WWJ, Detroit; WHAS, Louisville; and WCAU, Philadelphia appeared before the Federal Radio Commission the first three days of this week, asking for permission to use 50 KW.

Station WWJ, represented by Frank D. Scott, also made application to change its frequency from 920 kilocycles, a regional channel, to 1170 kilocycles, the channel now occupied by Station WCAU. John V. L. Hogan was the star witness for WWJ, testifying that better radio service would result from the granting of the station's request. Warren S. Booth, Treasurer of the Detroit Evening News Association, operators of the station, and Walter R. Hoffman, director of the station, were also witnesses.

Credo F. Harris, of Station WHAS, declared that the maximum power was necessary in order to give a reasonable radio coverage to the State of Kentucky.

Mabel Walker Willebrandt, well known in aviation litigation, made her first appearance before the Federal Radio Commission as counsel for Station WCAU. Leon Levy, President of the Universal Broadcasting Company, which operates Station WCAU, was the first witness in behalf of the station. Mr. Levy testified that during the first six months of the current year the station did a business of \$241,330 and is expected to do equally as well for the second half of the year.

Mr. Levy said his company was prepared to expend \$300,000 for the new transmitter. If the application is granted, the station will move to a new site either at Philmont, Pa., or Valley Forge.

Radio reception in and around Philadelphia, according to Mr. Levy, is unsatisfactory because of lack of power, absorption by buildings, and distance of points from transmitter.

According to the unit system worked out by the Commission engineers, Pennsylvania is farther below its quota than any other State, and if the 50 KW is allowed, it still would not be above the quota.

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#### HENDERSON SPIKES BANKRUPT RUMORS

W. K. Henderson, owner and operator of Station KWKH, of Shreveport, La., emphatically spiked rumors that he was bankrupt, at the second day of his hearing before the Federal Radio Commission. In answer to a question he stated he had more than a million dollars above his debts and about a half million in life insurance.

The "Hello World" broadcaster readily admitted that he heads the Merchant Minute Men's Association, an unincorporated organization of 35,000 members (at \$12 each), designed to fight the chain grocery stores.

Speaking of his "Hello World" coffee, Mr. Henderson admitted that it was not worth the \$1 charged for it but added that the difference was used to aid the anti-chain campaign. He also declared that he had refused profitable advertising contracts because he didn't approve of the advertisers.

The Rev. Wallace A. Burk, priest of Loyola University, New Orleans, which operates Station WWL, later testified that the reason his station would not sell time to KWKH was that the school does not approve of the language used by Mr. Henderson while broadcasting.

While the hearing was in progress, two attorneys, William J. Jamieson and Herbert S. Ward filed suit in the District Supreme Court against Mr. Henderson on alleged back fees. They stated that they had successfully defended his station before the Commission and had asked \$2,250. They were paid only \$250.00.

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#### SENATOR APPEARS IN BEHALF OF BROADCAST APPLICANT

Senator Caraway, of Arkansas, appeared before the Federal Radio Commission Examiner September 24th in behalf of the application of the Arkansas Agricultural and Mechanical College, of Jonesboro, for permission to operate a station on 1120 kilocycles with unlimited time. The erection of the station was opposed by Station KBTM, of Paragould, Ark., 18 miles from Jonesboro.

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# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: CONFIDENTIAL—NOT FOR PUBLICATION. :: ::

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G. W. JOHNSTONE

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No. 372

## INTERDEPARTMENTAL GROUP FORMED

With a view to avoiding duplication of radio facilities between the War Department and the Navy Department and in order to economize in the use of radio frequencies by governmental agencies, an interdepartmental committee has been organized under instructions from President Hoover to study the subject and to make recommendations which will be considered in connection with appropriations for radio services for these Departments at the forthcoming session of Congress, according to announcement by the State Department.

The Committee is composed of the following officers: Chairman, William R. Vallance, State Department; Lieut. Col. C. L. Sampson, War Department; Capt. S. C. Hooper, Navy Department; Dr. J. H. Dellinger, Department of Commerce; Dr. C. B. Jolliffe, Federal Radio Commission.

The Committee held its first meeting at the office of the Chairman on September 23rd and made plans for the conduct of the inquiry.

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## TELEVISION STILL FAR AWAY

Despite the fact that RCA-Victor engineers, along with others in the radio industry, have been working on television for a number of years and have made "truly phenomenal strides towards its practical use", it will still be some time before an apparatus is developed for use in the homes, according to E. E. Shumaker, President of the RCA Victor Co., Inc.

"Quite apart from the development of television receivers is the problem of equipment for broadcasting television", he said. "It will take time and money to parallel the present radio transmitting networks with equipment for broadcasting visual impressions.

"There remains also the problem of the program for television. What sort of program shall it be, how shall it be coordinated with musical or speech program, and above all who will pay for it?

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## VATICAN SEES ATTACKS ON RADIO

The following story appeared in the New York Times under a Vatican City date line:

"The Osservatore Romano, Vatican City newspaper, calls attention in a leading article to the activities of the association named the 'Defenders of Truth', which, it says, has been founded in the United States for the purpose of establishing a chain of broadcasting stations to wage war against certain practices and doctrines of the Catholic Church.

"The newspaper warns Catholics of the danger of allowing such a powerful means of propaganda as wireless to fall into anti-Catholic hands and urges them to take immediate steps to profit by the unequalled opportunities radio offers to spread Catholic doctrines. When radio is used to pierce the darkness with the evangelical word, then it will become a true gift of God, says the Osservatore Romano."

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## SEES MIDGETS BOOSTING TUBE SALES

A development in radio merchandising that presages an extremely bright season for tube sales lies in the growing popularity of midget sets, according to Edward T. Maharin, Vice-President of the CeCo Manufacturing Company, in a statement given out by Fred Baer, press representative.

"The midget sets," Mr. Maharin said, "bid fair to sweep the country in their wave of popularity. Starting last Winter in California, they have steadily marched eastward until now they are the most talked of new thing in radio. Where for a while the bulk of radio tube business was coming from the replacement market, we now feel that many, many thousands of new sets are going into homes and naturally all of them will have to be equipped with tubes. These midget sets, in the majority, use from five to seven tubes, almost as many as the conventional models of a year ago. They are selling like wild-fire; their price is attractive and to the tube manufacturer they represent one of the most optimistic developments radio has seen in the last two years.

"It is interesting to recall that only last November, Ernest Kauer, President of the CeCo Manufacturing Company, forecast that within a year a low-priced set would come into popularity. The midget set substantiates how well he foresaw what was to come."

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## LAFOUNT SEES NEW LINE FOR RADIO

Radio Commissioner Harold A. Lafount believes that the radio industry should jump into the manufacture of home motion picture talking machines before the movie industry has a monopoly on the new trade.

"I regard the introduction of talkies for the home as one of the most sensational developments in entertainment for several years", he said. "Based on radio principles, it is fitting that the radio industry should manufacture home talkie apparatus as an adjunct to their regular production lines."

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## DIPLOMATS USE RADIOTELEPHONES

The transoceanic radiotelephone services of the United States are being used effectively by the State Department to communicate with its diplomats in several countries, according to a statement by William R. Vallance, Assistant Solicitor.

The service was proved at the recent London Naval Conference. Secretary Stimson received instructions and advice on several occasions, Mr. Vallance recalled, from President Hoover.

Personal contact by radiotelephone eliminates the careful preparation of diplomatically worded cablegrams which have to be put into code before being transmitted, he said. With the expansion of the service a greater use of the radiotelephone by the diplomatic service is inevitable, Mr. Vallance said.

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## WABC SITE IS APPROVED

The Federal Radio Commission on September 26th approved the site, a half a mile from Wayne, N. J., selected by WABC, of New York City, key station of the Columbia Broadcasting System, for its new 50,000 watt transmitter.

This action ended a controversy that has been in progress for months. The company made an effort to locate the station near Columbia Bridge, N. J., but was opposed by the State. A plan to establish the transmitter on Long Island also was opposed. Some days ago, however, the Public Utilities Commission of New Jersey approved the new site at Wayne. The Commission also extended the construction permit for completion by February 1, 1931.

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## PALEY SAYS PUBLIC ACCEPTS ADVERTISING ON RADIO

America, through the influence of radio broadcasting, is learning to listen as unconsciously as it looks, William S. Paley, President of the Columbia Broadcasting System, declared in an interview last week.

Discussing the radio listener's attitude toward radio advertising, Mr. Paley said the listener had come to understand that without the advertiser who foots the bill, there could be no such outpouring of fine radio programs as there is today.

"The listener", he said, "has accepted this just as he has accepted the fact that without the advertiser, his newspaper could not be published. All he asks is that the advertiser comply with the dictates of the developing art of radio broadcasting. Fortunately, here we find a meeting of minds to the benefit of all concerned. The advertiser, too, has learned something, and today he is just as eager as the listener that what he pays to send out through the air shall so well represent him at his best that it must rebound to his prestige and his profit."

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## RCA-VICTOR ENLARGES OUTPUT

An increase of 1,600 radio sets a day has been made in the manufacturing schedule of the RCA-Victor Corporation plants at Camden, N. J. At the present time 4,600 sets are being turned out daily and within a few weeks, it is expected that this will be increased to 9,000 sets.

The additional manufacturing will require the services of 3,000 more employees. At the present time the plants employ 22,000 of which 17,000 are on the manufacturing end.

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## POWERFUL TUBE DEVELOPED

Development of a 500,000 volt X-Ray tube, more than twice as powerful as the tubes now used in X-Ray therapy was announced last week in a radio talk over Station WGY, by Ellis L. Manning, physicist of the Research Laboratory of General Electric. It was perfected by Dr. W. D. Coolidge, Associate Director of the Laboratory.

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: BUSINESS LETTER BRIEFS :  
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Radio talks by W. W. Vincent, Chief of the Western District of the Food and Drug Administration, have aroused interest in pure food and correct labeling among manufacturers as well as consumers, according to a statement issued by the Department of Agriculture. Vincent has been making the talks over three NBC stations on the Pacific Coast.

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The Buffalo, N. Y., Police Department has filed an application for a license to begin operation of a police radio service, which has just been installed.

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G. W. Johnstone, N.B.C. press representative has secured the temporary services of Ben Pratt, Chicago publicist, to handle the press arrangements for the opening of the new Chicago studios of the National Broadcasting Company in the Merchandist Mart scheduled for sometime next month.

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The New Jersey Board of Public Utility Commissioners has given the American Radio News Corporation permission to construct and operate a radio telegraph station in the Carlstadt borough following the granting of a license by the Federal Radio Commission.

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The Brazil, Ind., City Council has passed an ordinance authorizing the inspection of electrical appliances that are suspected of causing interference to radio receivers. A fine of between \$1 and \$100 will be imposed in case of violation.

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Several thousand radio listeners in Berlin were thrown into a furcre last week when a radio announcer interrupted a play being broadcast to announce that the Foreign Minister had just been assassinated. Later they learned it was all a part of the play.

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Karl A. Bickel, President of United Press Association, is author of "Newspapers and the Radio", a treatise on the relations of the two media to each other. The book is on the Fall list of Lippincott, of Philadelphia.

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### PRESS WIRELESS FILES SHORT WAVE BRIEF

Press Wireless, Inc., one of the successful applicants for the much-sought-after short waves, on September 27th filed a supplemental brief in the District Court of Appeals urging that the license of the Universal Wireless Communications Co., Inc., and the Intercity Radio Telegraph Company, both insolvent, be revoked.

The action came somewhat as a surprise and followed the filing of similar briefs by RCA Communications, Inc., and the Mackay Radio and Telegraph Company about a month ago. It was thought that Press Wireless was content with its share of the short wave frequencies and would consent to let the 40 assigned to Universal Wireless, if recaptured, be distributed to RCA and Mackay.

Louis G. Caldwell, counsel of the public utility newspaper wireless company, states in his proposal, however, that the revocation of the licenses would make available the channels to the "appellants", of which Press Wireless is one.

Press Wireless filed its original brief as "amicus curiae" in the continental short wave litigation. The brief recalls the histories and bankruptcies of Universal Wireless and Intercity and contends that the Radio Commission has ample grounds to revoke their licenses.

The court is urged to set aside its stay orders in the short wave case, restraining the Commission from in any manner molesting the distribution of continental frequencies, during the pendency of the litigation.

"Extreme prejudice" results, both to the interests of the United States and of Press Wireless, Mr. Caldwell declared, pointing out that during the pendency of the stay orders, 12 transoceanic high frequency channels, heretofore unoccupied, have been "partially or wholly unavailable to the United States by reason of registry of stations on said channels of foreign nations."

The stay orders prevent Press Wireless from obtaining the 20 continental channels allocated it by the Commission and of seven of the 20 transoceanic channels allocated it for the distribution of news from abroad for American newspapers and press associations.

Declaring that the demands for radio press service are constantly increasing, Mr. Caldwell says that Press Wireless has "immediate and imperative need of authority" to use the remaining frequencies.

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## REPORTS RADIO TRADE IMPROVING

The National Survey Conference, appointed by President Hoover to report on business conditions in the United States during the first eight months of 1930, has this to say of the radio industry:

Reports from the radio trade from all parts of the country indicate that the radio business and tube business are on the up grade. Manufacturers are now generally making shipments of the new models of radio receivers and distributors and dealers are reported as more optimistic as the merchandise begins to move to the public.

Owen D. Young is a member of the Committee.

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## SYNCHRONIZATION TEST APPROVED

Synchronization tests of three of the highest powered stations in the country - KDKA, Pittsburgh, WGY, Schenectady, and WEA, New York - have just been authorized by the Federal Radio Commission, during regular program hours.

The stations, each using 50,000 watts, are authorized for the remainder of their experimental license periods, which terminate about October 13th to attempt to synchronize on the 660 kilocycle channel, used by Station WEA. A wire line for frequency control will be employed in the experiments at certain times. The stations are licensed to use the maximum broadcasting power of 50,000 watts.

The objective of the experiments is to prove the feasibility of synchronization, or the dual operation of stations on the same channel. The tests will be observed to ascertain the amount of heterodyne interference, if any, which will result.

Approval was given by the Commission for the tests during regular program hours, with "unlimited time", provided that each station announcement is made, distinctly stating what stations are engaged in the test, and that a full report be made at the end of the license period.

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## REALLOCATION PLAN IS DEFEATED

A proposal to virtually rewrite General Order 40 and to effect a realignment of broadcasting stations by the introduction of synchronization on 20 frequencies was voted down by the Federal Radio Commission on September 25th by a vote of 3 to 2. The plan was suggested by Judge E. O. Sykes and received the support of Judge Ira E. Robinson. It follows in full text:

That section "A" paragraph 4, General Order No. 40 be amended to read as follows:

That 20 frequencies be selected by the Commission for the operation of stations with a minimum power of 5 kilowatts and a maximum of 25 kilowatts actual power with 25 kilowatts more experimental power.

That the minimum distances between stations operating on these frequencies are set out below.

That each zone is entitled to four full-time station assignments and an equal amount of power under this section.

Subsection "A-1".

That the Commission select 20 channels for the simultaneous operation of not more than three and not less than two stations with a maximum power of not in excess of 5 kilowatts. The stations operating on these frequencies are to have the following mileage and kilocycle separation:

Each zone is to be allocated the same number of stations with the same power under this section.

### Mileage Separation

Mileage and kilocycle separation between stations operating with same power:

On the same frequency, 1 kw., 800 miles; 5 kw., 1,200 miles; 10 kw., 1,800 miles; 15 kw., 2,000 miles; 25 kw., 2,200 miles; 50 kw., 2,500 miles.

Separated by 10 kilocycles, 1 kw., 200 miles; 5 kw., 300 miles; 10 kw., 400 miles; 15 kw., 500 miles; 25 kw., 550 miles; 50 kw., 606 miles.

Separated by 20 kilocycles, 1 kw., 100 miles; 5 kw., 150 miles; 10 kw., 200 miles; 15 kw., 250 miles; 25 kw., 300 miles; 50 kw., 350 miles.

Separated by 30 kilocycles, 1 kw., 80 miles; 5 kw., 100 miles; 10 kw., 175 miles; 25 kw., 200 miles; 50 kw., 250 miles.

Where the Commission assigns stations of unequal power to these frequencies then the distance between these stations is ascertained by adding the distance separation between stations of each of these powers and dividing it by two.

That paragraph "C" of General Order No. 40 be amended as follows:

The following frequencies are allocated for the use of stations having a power of from 250 watts to 1 kw. inclusive, for night use with a day power to be fixed by the Commission.

That the Commission allocate to each zone an equal number of these facilities with the following mileage separation between stations occupying the same channel.

On the same frequency, 250 watts, 450 miles; 500 watts, 500 miles; 1 kw., 800 miles.

Separated by 10 kc., 250 watts, 130 mi.; 500 watts, 170 mi.; 1 kw., 200 mi.

Separated by 20 kc., 250 watts, 65 mi.; 500 watts, 85 mi.; 1 kw., 100 mi.

Separated by 30 kc., 250 watts, 45 mi.; 500 watts, 60 mi.; 1 kw., 80 mi.

Where the Commission assigns stations of unequal power to these frequencies then the distance between these stations is ascertained by adding the distance separation between stations of each of these powers and dividing it by two.

After these frequencies have been equally divided among zones, as above set forth, then they may be further used by stations in other parts of the country provided the proper mileage separation exists.

#### Frequencies Set Aside

The frequencies set aside for this use are as follows:  
550, 560, 570, 580, 590, 600, 610, 620, 630, 780, 880, 890, 900,  
920, 930, 940, 450, 1,010, 1,120, 1,220, 1,230, 1,240, 1,250, 1,260,  
1,270, 1,280, 1,290, 1,300, 1,320, 1,300, 1,340, 1,350, 1,360,  
1,380, 1,390, 1,400, 1,410, 1,430, 1,440 and 1,450.

Paragraph "D" of General Order No. 40 is repealed. These frequencies are taken care of above.

Amend paragraph "E" as follows:

The following frequencies are allocated for use in all five zones by broadcast stations in simultaneous operation with an authorized power not to exceed 100 watts. The number of such stations to be equally allocated to each zone.



There must, however, be the following geographical separation between stations on the same frequency:

On the same frequency, 50 watts, 150 mi.; 100 watts, 200 mi.

Separated 10 kilocycles, 50 watts, 40 mi.; 100 watts, 50 mi.

Separated 20 kc., 50 watts, 20 mi.; 100 watts, 25 mi.;

Separated by 30 kilocycles, 50 watts, 15 mi.; 100 watts, 20 mi.

After these facilities have been equally allocated among the zones, then the Commission may further authorize the operation of stations in other parts of the country where, in its judgment, it will be in the public interest, convenience or necessity, provided the mileage separation between stations is not less than that above-named.

These frequencies are: 1,200, 1,210, 1,310, 1,370, 1,420 and 1,500.

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#### APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

September 25- WKZO, WKZO, Inc., Berrien Springs, Mich., modification of license to move main studio locally; WMCA, Knickerbocker Broadcasting Co., Hoboken, N. J., modification of license to change hours of operation from sharing with WNYC to unlimited time on 570 kc.; KQV, Doubleday-Hill Electric Co., Pittsburgh, Penna., request for authority to install automatic frequency control; KTHS, Hot Springs Chamber of Commerce, Hot Springs National Park, Ark., C. P. to make changes in equipment; WCOC, Mississippi Broadcasting Co., Inc., 2½ miles S.E. of Meridian, Miss., C. P. to make changes in equipment; WMAQ, WMAQ, Inc., Addison, Illinois, modification of license to increase power from 5 KW to 50 KW on 670 kc.; KFWF, St. Louis Truth Center, Inc., St. Louis, Mo., C. P. to move station from one room to another in the church, make changes in equipment and increase power from 100 W. to 150 W. day and 100 W. night on 1200 kc.; Linville H. Clemmons, Thomasville, N. C., C. P. to erect a new station to use 1200 kc., 100 w., and unlimited; J. E. Richards, Greenville, S. C., C. P. to erect a new station to use 1200 kc., 100 w. and unlimited time.

September 26 - WPAD, Pierce E. Lackey and S. Houston McNutt, d/b as Paducah Broadcasting Company, Paducah, Ky., license to cover C. P. issued 5/29/30 to erect a new station to use 1430 kc., 100 w., and unlimited hours; WKBI, Fred L. Schoenwolf, Chicago, Ill., C. P. to make changes in equipment; KGIW, Leonard E. Wilson, Trinidad, Colorado, C. P. to make changes in equipment; Vernon Wright, Jr., Mauston, Wis., request to amend application so as to request authority to change equipment and operate 5 evening hours per week instead of 3 evening hours instead of the daytime hours.

September 27 - KFPW, John Brown Schools, Ft. Smith, Ark., request for authority to voluntarily assign license to the Southern Hotels Co.; WMBC, Michigan Broadcasting Company, Detroit, Michigan, C. P. to move transmitter and studio locally and change equipment; KFIO, Spokane Broadcasting Corp., Spokane, Wash., C. P. to make changes in equipment.

Applications Other Than Broadcasting

September 25 - WOO, American Telegraph and Telephone Co., Ocean Gate, N. J., modification of license covering C. P. for change of location, frequencies 4752.5, 8630, 12840, 17120 kc., 20 KW, coastal service; WJF, Press Wireless, Inc., New Orleans, La., exact location when determined will be subject to approval of the licensing authority of the Federal Radio Commission, modification of point to point C. P. for change of frequencies: 7850, 15700, 7640, 7925, 15850, 7625, 15580, 5325, 5335, 5345, 5355, 4715, 4745, 4945, 4965, 4975, 4985, 4995, 5295, 4925, 4955, 5315, 5305, 4725, 5285, 4735, 4935 kc.; WNW, Tidewater Wireless Telegraph Co., Philadelphia, Pa., renewal of coastal license for 500, 438 kc., 1 KW.

September 26 - W2XBR, Baruchrome Corporation, New York, N. Y., C. P. for change in power from 1 to 10 KW., with same frequency of 6020 kc.; W2XE, Atlantic Broadcasting Corp., Long Island (near Jamaica), N. Y., modification of C. P. for extension of completion date from 10/25/30 to Feb. 1931; W9XG, Purdue University, West LaFayette, Ind., modification C. P. for extension of completion date from 10/11/30 to 1/1/31, also location changed to  $\frac{1}{2}$  miles north of Lat. (40° 36' 15").

September 27 - WAN, Intercity Radio Telegraph Co., by: Frank X. Schaut, Receiver, Isnpeming (Marquette Co.), Michigan, renewal of license for 143, 410, 5525, 165, 171, 425, 454, 4116, 8630 kc., 500 watts, coastal service; also renewal of license for 165, 171, 4116, 8630 kc., 150 watts, public point-to-point for marine relay service.

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