

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 :: :: CONFIDENTIAL—NOT FOR PUBLICATION.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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AUG 8 1930

PRESS RELATIONS DEPARTMENT
G. W. JOHNSTONE

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No. 358

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RECEIVER NAMED FOR UNIVERSAL WIRELESS COMPANY

A receiver in bankruptcy has been appointed for the Universal Wireless Communications Co., Inc., authorized to create the first nation-wide radiotelegraphic network, Col. Thad H. Brown, General Counsel of the Federal Radio Commission announced, on the basis of reports he had received.

Col. Brown declared he was informed that the United States District Court at Chicago appointed Sam Howard, of that city, as receiver. The action, he declared, was taken on the application of certain creditors of the company for an involuntary bankruptcy petition.

The company, in 1928, it is shown in Commission records, was allocated the bulk of the available channels in the continental short wave band available for point-to-point communication, for the creation of a radiotelegraphic network linking 110 cities. For this system, it was allocated 40 of the continental channels, over the competitive applications of the Radio Corporation of America, Mackay Radio and Telegraph Company and the Intercity Radio Telegraph Company. The latter company also has gone into the hands of receivers.

Company Spent Two Millions

Universal, in its last report to the Commission, said it had in operation more than a dozen stations, largely in the East, as the first segment of its network, which would be competitive with the established wire lines of the Western Union and Postal companies. The report declared that in excess of \$2,000,000 had been expended in the establishment of the company.

The Commission, in distributing the continental short wave band for commercial use in December, 1928, granted the Universal application in full, but denied in part and granted in part the R.C.A. applications. Mackay and Intercity were denied outright their requests for sufficient numbers of channels with which to create national radiotelegraphic systems. The Universal Company claimed, and demonstrated to the apparent satisfaction of the Commission, it was brought out at formal hearings relative to the grant before the House Committee on Merchant Marine and Fisheries in 1929, that it could maintain five-way communication on a channel normally used for only one message.

The Commission's entire allocation of continental short wave frequencies for point-to-point service, however, now is involved in litigation pending before the Court of Appeals of the District of Columbia. First Intercity, and then R.C.A. and Mackay appealed from the Commission's action. Universal, however, did not become a direct party to the case.

Col. Brown declared the Commission will give consideration to the Universal case as soon as it is formally apprised of all the circumstances. He pointed out that the company has never been assigned use of the entire block of 40 channels, and that those frequencies which have been assigned it were granted under rigid conditions. The entire allocation to the company, he explained, was made on condition that the 110 cities be linked by the end of 1931, with other provisos of a protective nature.

Several months ago, suit against Universal was filed by the R.C.A., and several of its affiliated and associated companies alleging infringement of five basic patents.

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LIKENS TUBES TO MONKEY GLANDS

Usually a new set of radio tubes act as "monkey glands" and revivifies a radio to its new self again, George Lewis, Vice-President of Arcturus Tube Company, Newark, N. J., declares.

"As the announcer for 'Amos 'n' Andy' would say", Mr. Lewis continued, "Let your radio dealer test your tubes during the year; replace your tubes at least once a year."

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PACIFIC COAST MINISTER CITED

A complaint against the Rev. Robert P. Shuler, pastor of the Trinity Methodist Church, Los Angeles, Calif., who operates Station KGEF of that city, charging the minister with the broadcasting of "reckless denunciations" over the station, will be considered by the Federal Radio Commission.

Judge Sukes return from a trip to the Pacific Coast recently where he conducted a series of hearings on pending radio applications. The complaint, submitted to him by George D. Lynch, of Los Angeles, a former official of the American Legion, he declared, will be presented to the Commission for its consideration.

Mr. Lyon charged that the broadcasts of Mr. Shuler, "are of a character which may dangerously inflame the passions of some elements of the population, and are apparently so hostile to established institutions of the Government, such as the judiciary and other law-enforcing agencies, that, in the opinion of the undersigned, the public utterances of many of these addresses is contrary to public policy."

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BRITISH WIRE MERGER FINANCIAL SUCCESS

The first report of Imperial and International Communications, Ltd., the British telegraph and cable merger, covering the last nine months of 1928 and the whole of 1929, shows gross profits amounting to 11,381,262 Lbs. (Lb equals \$4.86), according to a British press report received in the Department of Commerce.

Working expenses, administration charges, taxation, rentals, directors' fees, etc., absorbed 9,357,107 Lbs., leaving a net profit of 2,023,155 Lbs., or 708,912 Lbs. less than the standard revenue above which 50 per cent of the surplus has to be passed on to the users of the system. It is stated that this rate of profit (about 1,156,000 Lbs. per annum) is not expected to be maintained during the current year. The report says that considerable economies have been effected and further savings will be made. Reference is made to what is described as the unfair competition of the post office in the matter of overseas telephony.

Sir Basil Blacket, Chairman of the above company, addressed a private meeting at the House of Lords in which he mentioned, among other things, that the company at the present pays the various Governments some 600,000 Lbs. a year. The British Post Office receives 250,000 Lbs. per annum for rental of the beam stations. This, said Sir Basil, constituted a direct tax on the communications of the Empire.

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JOHN LITTLEPAGE MARRIED

The marriage of Miss Ruth Foster to Mr. John Marshall Littlepage took place Monday morning, August 4th, in Washington, D. C. at the home of the bride's parents, former Representative and Mrs. Israel Moore Foster, of Ohio, the Rev. Dr. John C. Palmer officiating.

The bride is a graduate of George Washington University and Mr. Littlepage, who is the son of Mr. and Mrs. Thomas Price Littlepage, is also a graduate of the university.

Mr. Littlepage was formerly Assistant United States Attorney and is now associated with his father in the practice of law in the firm of Littlepage and Littlepage, counsel for WBBM, Chicago, WFBM, Indianapolis, and other stations.

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A-K "GOLDEN VOICE" DEBUT SUCCESS

Judging from the results at the gathering of the 300 Atwater Kent dealers from Maryland, Virginia and the District of Columbia who were dinner guests of William E. O'Connor, President of the Southern Wholesalers, A-K distributor, at the Mayflower Hotel in Washington last Tuesday night, the introduction of the new Atwater Kent "Golden Voice" models to 15,000 dealers in eighty-seven cities, was a huge success.

No orchestra in the Mayflower ballroom probably ever filled it with a greater volume of music than came from this single radio set installed at one end of the room. This was accomplished without the slightest distortion and the various instruments were reproduced with striking fidelity.

When Mr. Kent spoke, his voice came through as naturally as if he had been at the Speakers' table. During his remarks, all conversation ceased and his talk was accorded the same attention as if he were actually present. Just so a round of applause followed the conclusion of his speech.

Addresses of other members of his organization broadcast were also followed closely. Altogether it was an unique demonstration and one which we predict will be followed by other manufacturers.

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BAR ASSOCIATION RADIO REPORT PRINTED

Copies may be had upon application to the American Bar Association, 1140 North Dearborn Street, Chicago, Illinois, of the Report of the Standing Committee on Communications which will be presented at the meeting of the Bar Association to be held in Chicago August 20th.

Louis G. Caldwell is the Chairman of this Committee and its members are Cassius E. Gates, William C. Green, and Howard S. LeRoy.

The report is a lengthy one covering 168 pages.

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: BUSINESS LETTER BRIEFS :
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Binghamton, N. Y., will be the center of a 100 mile area protected by police radio, through the cooperation of Station WNBC there and county and city police authorities in some fifty communities.

A temporary restraining order against enforcement of the South Carolina law taxing owners of radio receiving sets has been issued.

William H. Ensign has been appointed Manager of Broadcasting Operations for the Columbia Broadcasting System.

The Lutheran Laymen's League has decided to sponsor a weekly National Lutheran Radio Hour over a chain of stations this Fall, according to the Rev. Herman H. Hohenstein, of Station KFUC, operated by the League.

The Lutherans will use Columbia for their broadcasts, the exact number of stations to be determined later.

Another search for the most beautiful artist to reign at Radio World's Fair is on. Olive Shea, of Station WABC, won the title last year.

Joseph A. Chambers has been appointed Assistant Manager of Stations WLW and WSAI in charge of station operations, according to John L. Clark, General Manager of the stations.

The Boeing System has just completed the installation of 22 ground radiophone stations and has equipped 50 airplanes, making the system the most comprehensive two-way voice communication set-up of any air line in the country.

The radio aviation networks of the country will be inspected by Commissioner W. D. L. Starbuck, who will make the trip mostly by plane.

The government of Cuba has established a bureau for the control of radio, partly made necessary by the interest in reception of American progress.

The power of fixing of rates on messages from Cuba to foreign countries will remain with the Service Bureau of the Department of Communications but all other functions will be in the hands of the new bureau.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

Broadcasting - August 4, 1930 - WNBH, Irving Vermilya, trading as New Bedford Broadcasting Company, New Bedford, Mass., license to cover C. P. issued 4/28/30 to install new equipment; WDOD, Chattanooga Radio Co., Inc., Brainerd Community, Tenn., request for authority to voluntarily assign license to the WDOD Broadcasting Corporation; KGDY, J. Albert Loesch & Geo. W. Wright, Oldham, South Dakota, license to cover C. P. issued 3/21/30 to move transmitter to $\frac{1}{2}$ mile from Huron, and move studio to Huron, install new equipment and increase power from 15 watts to 100 W. on 1200 kc.; KFQU, W. E. Riker, Holy City, California, license to cover C. P. issued 5/20/30 to make changes in equipment; KTM, Pickwick Broadcasting Corp., Santa Monica, California, modification of license to change time assignment from sharing with KELW to unlimited, on 780 kc.

August 5 - KWWG, City of Brownsville, Chamber of Commerce (G. C. Richardson, Manager), Brownsville, Texas, request for authority to voluntarily assign license to The Brownsville Herald Publishing Company; WISJ, Wisconsin State Journal Company, Beloit, Wisconsin, request for authority to voluntarily assign construction permit to the Wisconsin State Journal Broadcasting Co.; WMAY, Kingshighway Presbyterian Church, St. Louis, Missouri, request for authority to voluntarily assign license to WMAY, Inc.; WMAY, Inc., St. Louis, Missouri, C. P. to move transmitter locally, install new equipment, change frequency from 1200 kc. to 1500 kc., and change hours from sharing with WIL and KFWF to unlimited with 250 watts day and 100 watts night.

August 6 - WMAN, Columbus Broadcasting Corp., Columbus, Ohio, modification of license to change frequency from 1210 kc., to 1310 kc. and to operate experimentally on 1310 kc. pending decision of this application; WDOD, Chattanooga Radio Co., Inc., Brainerd-Community, Tennessee, request for authority to install automatic frequency control; WEBQ, First Trust & Savings Bank of Harrisburg, Harrisburg, Ill., C. P. to make changes in equipment; KOOS, H. H. Hanseth, Marshfield, Oregon, C. P. to move transmitter and studio to the Hall Bldg., Marshfield, Oregon, and install a new motor generator; KOOS, H. H. Hanseth, Marshfield, Oregon, request for authority to voluntarily assign license to H. H. Hanseth, Inc.

Applications Other Than Broadcasting

August 4 - WDA, RCA Communications, Inc., Rocky Point, N. Y., license to cover C. P. for 9480 kc., 80 KW, limited public service; RCA COMMUNICATIONS, INC., Rocky Point, N. Y.; WDB, license to cover C. P. for 6717.5 kc, 80 KW, limited public service; W2XBL, RCA Communications, Inc., Rocky Point, N. Y., license to cover C. P. for 60000 to 400000 kc., and above 401000 kc., 1 watt; W2XBZ, RCA Communications, New Brunswick, N. J., license to cover C. P. for 4795, 6425, 8650, 12850, 17300, 25700, 34600, 51400 and 60000 to 400000 kc. 80 KW, experimental service; W2XAO, New Brunswick, N. J., renewal of experimental license for 6950, 6965, 7415, 8930, 9450, 9470, 9490, 13480, 13870, 13900, 14800, 14920, 16030, 17860 kc., 80 KW; W2XBJ, Rocky Point, N. Y., renewal of experimental license for 6740, 9850, 15040, 16000, 16030, 17900, 20100, 21300 kc., 80 KW.

Also, Fred W. Christian, Jr., Portable in 6th District, C. P. for experimental frequencies, 1 KW (new); Atlantic Broadcasting Corp., portable to be used in metropolitan area of N.Y.C., renewal of experimental license for 860 kc., 500 watts; Intercity Radio Telegraph Co., Duluth, Minn., WME, renewal of limited public license for 184, 194 kc., 1 KW; also renewal of coastal license for 410, 143, 5525, 425, 454, 165, 171, 4116, 8630 kc., 1 KW.

August 6 - Robert W. Hunter, Greensboro, N. C., new experimental C. P. for 3256, 4795, 8650, 12850 kc., 25 watts; Rev. Lannie W. Stewart, Cartersville, Mo., new experimental C.P. for all experimental frequencies, 100 watts; KOS, Press Wireless Inc., Los Angeles, Calif., modification of C. P. for additional frequencies: 7340, 15730, 7850, 15700, 7955, 15910, 7355, 15760, 7820, 15640, 7370, 15610, 7640, 7925, 15850, 7625, 15580, 7835, 15670, 5325, 5335, 5345, 5355, 4715, 4745, 4945, 4965, 4975, 4985, 4995, 5295, 4925, 4955, 5315, 5305, 4725, 5285, 4735, 4935 kc. KDG, PressWireless, Inc., Honolulu, T. H., modification of C.P. for additional 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; WRDU City of New York Fire Department, Brooklyn, N. Y., modification of C. P. for extension of completion date to 8/29/30.

Also, Fokker Aircraft Corp., KHNGT, Airplane A.T.C. 281, new Aircraft license for 3106 kc., 50 watts; KHIZA, New York Airways, Inc., Airplane NC-411-H, new aircraft license for 5690 kc., 12 watts; Alaska Washington Airways, Airplane NC-974-H, new aircraft license for 3106 kc., and whatever is available, 150 watts; KGE, Boeing Air Transport, Inc., Medford, Oregon, assignment of license to Aeronautical Radio, Inc., W2XBG, Radiomarine Corp., of America, Garden City, N. Y., modification of experimental license for addition of 3452 kc. for a period of 90 days; W6XV, Federal Telegraph Co., Palo Alto, Calif., renewal of experimental license for 99, 150, 375, 500, 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300, 24100, 25100, 27100, 30100, 75100 kc., 10 KW.

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APPLICATIONS GRANTED BY FEDERAL RADIO COMMISSION

August 5, 1930: WRAW, Horace D. Good, tr. as Avenue Radio and Electric Shop, Reading, Pa., consent to voluntary assignment of license to Reading Broadcasting Company; WEMC, Emmanuel Missionary College, Gerrien Springs, Michigan, permission to discontinue service until September 30, 1930; KGHL, Northwestern Auto Supply Co., Inc., Billings, Montana, special permission to use new 1000 w. transmitter to broadcast a chain program August 5 between 5 and 6 P. M.; KGBX, Foster-Hall Tire Company, St. Joseph, Missouri, consent to voluntary assignment of license to KGEX, Inc.; WMSG, Madison Square Garden Broadcasting Corp., New York, N. Y., C. P. to install new 250 w. composite equipment including direct crystal control; WCV, Michigan Wireless Telegraph Co., Wyandotte, Michigan, C. P. to install additional equipment; WNO, Michigan Wireless Telegraph Co., Alpena, Michigan, C. P. to install additional equipment; WPDL, City of Lansing, Michigan, Lansing, Michigan, modification of C. P. to extend completion date to 12/1/30 and change transmitting equipment;

Also WSY, The Susquehanna Power Co., Darlington, Maryland, modification of C. P. to extend completion date to 11/1/30; WJV, Philadelphia Electric Co., Philadelphia, Pa., modification of C. P. to extend completion date to 11/1/30; WPDD, Chicago Police Dept., Chicago, Illinois, modification of C. P. to extend completion date to 3/1/31; WPDB, Chicago Police Dept., Chicago, Ill., modification of C. P. to extend completion date to 10/15/30; W3XM, Durham & Co., Inc., Philadelphia, Pa., modification of C. P. to extend completion date to November 15, 1930; KGPB, City of Minneapolis, Police Department, Minneapolis, Minn., license to cover C. P. to operate on frequency 2416 kc., 400 w., adjusted to 250 w. at present; WAPI, Alabama Polytechnic Inst., Birmingham, Ala., special authority to broadcast from 6 to 7 P. M. August 5 (Central Standard Time); W2XAN, Atlantic Broadcasting Corp., Nassau County, N. Y., renewal of license and authority to operate a portable 500 watt transmitter for making field measurements in the metropolitan area of N. Y. City. Continuous waves only to be used, frequency 860 kc., (between 1:00 and 7:30 A. M.).

Also, For New Stations: Pan-American Airways, Inc., North Beach, New York, N. Y., C. P. specifying frequencies 278, 2262, 3070, 12210, 5690 and 8015 kc., day only, 15 and 300 watts; WESTERN AIR EXPRESS, INC., Fokker Planes #504, 502, 503 and Boeing Planes #54, 55, licenses to operate on frequencies 3070, 3106, 3460, 6350 kilocycles, 50 watt power.

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FINLAND AS A RADIO MARKET

Following are excerpts of a report on Finland as a radio market as transmitted by Commercial Attache Osborn S. Watson, of Helsingors, to the Department of Commerce:

"The development of radio broadcasting in Finland has been rapid in recent years. There are now seven broadcasting stations in the country, the principal one being that at Lahti.

"There are a number of pick-ups available on the market to use in connection with regular radio sets, but the sale of such equipment has not been large. There will undoubtedly be, however, a definite market for a small, self-contained, electrically driven turntable with audio amplifier incorporated under the same cover to use with a separate loud speaker. Such an apparatus has already been assembled by a domestic radio house. This machine consists of an electrically driven turntable with a 2-tube audio amplifier in a box about the size of the usual portable phonograph to be used with separate loud speaker. This machine will sell for about 1,200 Finnish marks. The reproduction is sufficiently loud for home use.

"Most of the radio sets and parts imported into Finland come from Germany, Sweden, and the Netherlands. The quality and technical excellence of American sets is recognized, but the price and the usual receiving range of these sets, from 200 to 600 meters militate against their general use.

"It is believed that at present the best method of distribution of radio equipment in Finland is through a sole agency. By intelligent sales methods and proper advertising and servicing, the sale of radio in Finland can, no doubt, be substantially increased."

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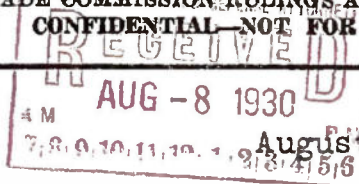
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No. 358



PATENTS, PATENT SUIT, TRADE-MARKS, DESIGNS, PRINT

The following patents were granted during the week ending August 5, 1930:

- 1,772,077. System of Radio Communication. Henry C. Forbes, Chicago, Ill., assignor to Zenith Radio Corporation, Chicago, Ill. Filed September 16, 1926.
- 1,772,125. Loud-Speaker Armature. Nathaniel Baldwin, East Mill Creek, Utah. Filed July 5, 1927.
- 1,772,133. Device for Rectifying Alternating Current. Pieter Wilhelm Dobben, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed July 23, 1926, and in the Netherlands October 7, 1925.
- 1,772,163. Diaphragm For Sound-Reproducing Machines. Alexander E. Squyars, Valdosta, Ga., assignor of one-half to Thomas O. McLendon, Valdosta, Ga. Filed May 22, 1925.
- 1,772,165. ✓ Multiplex Broadcast System. Edmund R. Taylor, New York, N. Y., and Oscar B. Hanson, Roselle, N. J., assignors to American Telephone and Telegraph Company. Filed August 17, 1926.
- 1,772,166. ✓ Multiplex Broadcast System. Edmund R. Taylor, New York, N. Y., assignor to American Telephone and Telegraph Co., Filed August 17, 1926.
- 1,772,167. Signaling System. Edmund R. Taylor, New York, N. Y., assignor to American Telephone and Telegraph Co. Filed December 31, 1926.
- 1,722,168. ✓ Multiplex Broadcasting System, Edmund R. Taylor, New York, N. Y., and Oscar B. Hanson, Roselle, N. J., assignors to American Telephone and Telegraph Company. Filed April 28, 1927.

- 1,772,281. Electrical Resistance Device. Fritz R. Friedrich and Francis Friedrich, New York, N. Y. Filed August 12, 1926.
- 1,772,327. Voltage and Current Regulator for Alternating Current Circuits. Alfred Soulier, Cachan, France. Filed September 27, 1928, and in Belgium October 4, 1927.
- 1,772,372. Vernier Adjusting Device. Samuel Tierney, Jr., Westfield, N. J., assignor to Radio Corporation of America. Filed July 18, 1927.
- 1,772,374. Signaling System. Julius Weinberger, New York, N. Y., assignor to Radio Corporation of America. Filed May 3, 1923.

Adverse Decision In Interference

- Pat. 1,630,118. R. S. Fisher, Electron-tube-amplifying apparatus, decided December 3, 1929, claims 1 and 2.

Patent Suit

- 1,691,214, W. Sparks et al, Signaling device, D. C., E. D. Mich., S. Div., Doc. 3261, The Sparks-Withington Co. v. J. T. Rhamstine. Dismissed without prejudice April 11, 1930.

Trade-Mark Registrations Granted

- 273,417. Antennae. Antennon Radio Company, Buffalo, N. Y. Filed March 10, 1930. Published May 6, 1930.
- 273,593. Attachment Applicable to Spark Plugs for Intensifying the Spark Produced. Carbex Chemical Company, West End, N. J. Filed December 11, 1929, Published May 13, 1930.
- 273,594. Photo-Electric Cell. G-M Laboratories, Inc., Chicago, Ill. Filed March 26, 1930. Published May 13, 1930.
- 273,607. Phonographs. O. G. Needham & Co., Fort Worth, Texas. Filed September 5, 1929. Published May 6, 1930.
- 273,642. Electric Transformer. Seymour Perfection Electrical Co., Kansas City, Mo. Filed February 18, 1930. Published May 13, 1930.
- 273,643. Electrical Systems for Reproducing, Amplifying and Projecting Sound. Western Electric Company, Inc., New York, N. Y. Filed February 15, 1930, Published May 6, 1930

- 273,647. Electrical Batteries, Radio Receiving Sets, Wet and Dry Electric Batteries, and Flash Lights. The Marconi Manufacturing Company, Seattle, Wash. Filed January 9, 1930. Published May 13, 1930.
- 273,655. Radio Receiving Sets, Vacuum or Electron Tubes, and Radio Speakers. Columbia Radio Corporation, Chicago, Ill. Filed February 24, 1930. Published May 6, 1930.
- 273,662. Neon Tubes, Gaseous-Discharge Tubes, and Variable Luminosity Tubes. G-M Laboratories, Inc., Chicago, Ill. Filed March 26, 1930. Published May 13, 1930.
- 273,675. Electrical and Mechanical Phonographs and Talking Machines. Radio Corporation of America, New York, N. Y. Filed April 26, 1929, Published May 13, 1930.
- 273,676. Electric and Mechanical Phonograph and Talking Machines. Radio Corporation of America, New York, N. Y. Filed April 26, 1929. Published May 13, 1930.

Print

- 12,642. - Title: Arcturus Photolytic Cell. For Photo-Electric Devices. Arcturus Radio Tube Company, Newark, N. J. Published May 10, 1930.

Designs

- 81,745. Escutcheon Plate. John Geloso, Brooklyn, N. Y., assignor to Pilot Radio & Tube Corporation, Brooklyn, N. Y. Filed September 27, 1929. Term of patent $3\frac{1}{2}$ years.
- 81,757. Radio Cabinet. Karl E. Rollefson, Chicago, Ill., assignor to National Electrical Products Company, Chicago, Ill. Filed May 1, 1930. Term of patent $3\frac{1}{2}$ years.
- 81,762. Radio Cabinet or Similar Article. John R. Schwinzer, Bayside, N. Y., assignor to Tiffany Studios, New York, N. Y. Filed March 21, 1930. Term of patent $3\frac{1}{2}$ years.

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No. 359

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50 KW HEARING DATE SET

The Federal Radio Commission has decided to hold a hearing Sept. 15 on the applications of eight broadcasting stations for authority to use the maximum allowable broadcasting power of 50,000 watts.

Today's action supplements the recent assignment of similar applications for nine other stations for 50,000 watts power, and it was explained that all stations now using, authorized to use or eligible for the maximum power will be invited to participate in this session. It is expected the hearing will run for more than a week.

Applications of stations assigned to cleared channels, of which there are fifty-five, have been filed with the Commission as a direct result of its recent action in restricting to twenty the number of "clear" channels upon which stations of the highest allowable power would be permitted to operate.

The forty clear channels set aside for high power are distributed eight to each of the five radio zones into which the country is divided. Under the new ruling, only four of the eight channels in each zone may carry 50,000 watt stations.

The applications set for hearing on September 15th under the Commission's action today are those of WOR, Newark; WBZ, Springfield, Mass.; WHAS, Louisville; WCAU, Philadelphia; WBT, Charlotte; KHJ, Los Angeles, and KYW, and WMAQ, Chicago.

Those previously set for hearing on the same date came from WHAM, Rochester; WRVA, Richmond; WAPI, Birmingham; WSM, Nashville; WSB, Atlanta; WCFL, Chicago; KTNT, Muscatine, Iowa; KGO, Oakland, and the joint application of WHO and WOC at Des Moines and Davenport, respectively.

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WESTINGHOUSE SETS READY

During the next few weeks, the Westinghouse Electric & Manufacturing Company will submit for public approval, through its radio dealers, its line of Westinghouse radios.

The wholesale distribution of Westinghouse radios is being handled by Westinghouse Agent Jobbers, each exclusively serving in their respective territories. Arrangements have been made with the Commercial Investment Trust Company of New York to take care of the financing of time payment sales for the dealers.

The Manager of the Westinghouse Radio Department is M. C. Rypinski, who entered the electrical industry as an engineer in 1897, joined the Westinghouse Company in 1904, and took charge of the Westinghouse Radio Department at the beginning of radio broadcasting in 1920.

Mr. Rypinski, in speaking of the new Westinghouse receivers, said: "The initial line will include four models, of which three are 9 tube, screen-grid heterodynes, and one is a 7-tube, screen-grid, tuned radio frequency set, at prices to fit every purse up to approximately \$300.00 for the most expensive set. Nationwide advertising will start on August 23rd."

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LARGEST CENTRALIZED RADIO SYSTEM PLANNED

The largest centralized radio reception system ever designed, capable of intercepting and delivering six selected radio programs to loud-speakers in the 2,000 rooms of the new Waldorf-Astoria Hotel, will be in operation when the building is opened to the public, according to engineers of the Western Electric Company, who will install the equipment. The entire installation will cost nearly \$200,000, they said recently. Besides the speakers in the guest rooms, there will be thirty-nine large horn speakers concealed in the walls or ceilings of the fifteen public rooms.

Three strands of antenna wire suspended 600 feet above the street will intercept programs and serve as the pick-up for a centralized radio antenna system for about 140 apartments in the two towers of the building. Individual radio receivers will be plugged into wall sockets in the tower suites for antenna and ground connections, as well as for electric operating power. This will afford good reception without other outside wires, the engineers said, and prevent interference between the sets.

The largest power amplifier ever designed, consisting of twenty-one separate panels, larger than any similar broadcasting station equipment in the country, will be used to intensify programs received over the radio or the addresses or music picked up from a function held within the hotel. More than 1,000,000 feet of wire, in the form of strands in metal shielding, will convey the programs from amplifier to each of the rooms, according to J. J. Kuhn, engineer of the Bell Telephone Laboratories, New York, the designer.

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SIXTH STATION COMPLETES AIR RADIO SERVICE LINK

The last radio station on the New York-Atlanta airway, completing a chain of six stations broadcasting weather information and messages to pilots in flight, has been placed in operation at Silver Hill, Md. The new station will provide a complete chain which also includes New Brunswick, N. J., Atlanta, Spartanburg, Greensboro, and Richmond.

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RMA JOINS AMERICAN STANDARDS ASSOCIATION

The affiliation of the Radio Manufacturers' Association with the American Standards Association, a national standardizing body representing the leading American technical societies and trade associations and several departments of the Federal Government, was announced by the American Standards Association. Ray H. Manson, Vice-President and Chief Engineer of the Stromberg-Carlson Telephone Manufacturing Company will represent the Radio Manufacturers' Association on the Standards Council, the governing body of the American Standards Association.

The action of the Board of Directors of the Radio Manufacturers' Association in accepting the invitation to membership tendered by the standardizing body is expected to aid materially in bringing about the establishment of a body of authoritative national standards for radio equipment. The American Standards Association now has under way a project for the establishment of national standards for radio. One standard, that for four-pin vacuum tube bases, has already been completed.

The Association's standardization work on radio is being handled by a technical committee under the chairmanship of Alfred N. Goldsmith of the Radio Corporation of America. The Radio Manufacturers' Association has been actively cooperating in this project. Among the other bodies represented on the A S A technical committee on radio are the Institute of Radio Engineers, the American Radio Relay League, the National Association of Broadcasters, American Institute of Electrical Engineers, the Radio Division of the National Electrical Manufacturers' Association, and the Radio Section of the United States Department of Commerce.

In addition to the standard for vacuum tubes, the technical committee is now working on standards for transmitting and receiving sets and installations; component parts and wiring; electro-acoustic devices; and power supply and outside plant.

The scope of the technical committee's work is defined as "nomenclature, methods of testing and of rating, specifications of apparatus and equipment, and dimensions to secure interchangeability where this may be found to be desirable."

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RADIO CHANNELS FOR AVIATORS DESIGNATED

The Federal Radio Commission has adopted the following recommendations which were made at the Aviation Radio Conference between representatives of the United States and Canadian governments held in the City of New York on April 10 and 11, 1930:

1. The International Air Calling Frequency 333 kc. be not required regionally for aircraft or aeronautical stations in Canada or the United States.

2. It is recognized that a frequency separation of 6 kc. is ordinarily sufficient between stations operating radio range beacon and radio telephone services.

3. A minimum distance of 750 miles between radio beacon stations operating on the same frequency is desirable. It is recommended that this separation be maintained between nations, although in some cases it may be necessary to reduce the separation within the interior of either country.

4. The following frequencies: 237, 240, 248 and 278 kc. out of the band 194-284 kc. be reserved regionally for air services.

5. The following frequencies shall remain free from assignments in the United States within 750 miles of Canadian airways radio stations: 248, 290, 296, 326 and 332 kc. In addition, no further assignments in the United States should be made on the following frequencies within 750 miles of Canadian airways radio stations: 240 and 314 kc.

6. The following frequencies shall remain free from assignments in Canada within 750 miles of United States airways radio stations: 254, 260, 266, 272, 284, 302, 308, 320, 338, 344 and 350 kc.

7. The frequency 278 kc. should be reserved primarily for low power airport use.

8. One frequency, approximately 237 kc. shall be reserved for emergency messages from ground stations to aircraft in cases where such messages might interfere with the regular airways beacon service.

9. The following frequencies should be reserved for Canadian stations operating along the Canadian Transcontinental Airways from Halifax to Vancouver: 3,492 and 5,630 kc. The United States authorities will discuss with aviation companies operating between Chicago, Minneapolis and St. Paul a change of frequencies from those now specified in the United States Aviation Plan for the Green Chain to the Red Chain frequencies in order that Canadian planes flying from Winnipeg to Minneapolis and St. Paul will be able to have closer frequency coordination.

10. The United States will continue to use 3,106 kc. as a national calling frequency and Canada will use the frequency 5,630 kc. for the same purpose, since the experience gained to date in the United States and Canada would indicate that the common calling frequency selected in the United States might not be equally suitable in Canada.

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SAYS SUMMER IS TIME TO LISTEN TO MUSIC

Judging by the let-down in the so-called "good music" programs and some of the poor offerings at this season, certain broadcasters apparently think those who desire to hear the best in music are non-existent during the summer. Evidently this same situation obtains in England for "Auribus", writes in the Musical Times, of London:

"We do not suddenly change our musical tastes when the 'r' drops out of month. The thing we will not do in summer is to spend an evening in a stuffy concert hall and for that reason it has been found impossible to carry on the concert business when the hot weather arrives.

"And so, the musical world has come to regard the 'end of the musical season' as a definite entry on the calendar, all because it is unpleasant to be one of a warm and enclosed crowd. This end of the season shadow seems to have fallen on the British Broadcasting Corporation, in spite of the obvious fact that broadcasting has nothing to do with enclosed crowds.

"It may be argued that summer evenings tempt people away from their receiving sets. True, in some cases, but believe me, by far the most popular summer evening recreation is to sit near an open window, without a collar, and to avoid any form of exercise beyond an occasional flexion of the right elbow. And that is the time and state in which the average keen musician is most, not least, ready to listen to the radio."

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RADIO SPEECHES IN PRINT NOW PAID FOR

Political candidates in Hoquiam and Aberdeen, Wash., according to the Editor and Publisher, formerly accustomed to paying for time on the radio during their campaigns, and expecting the newspapers to give full coverage to their radio addresses free of charge, are now required to pay for this space in newspapers.

The Aberdeen World, the Hoquiam Daily Washingtonian, and the Hoquiam American have agreed on a policy whereby announcement of candidates' radio speeches and their subsequent publication may be made only at regular advertising rates. All such copy is labeled "Paid Advertisement."

"The first candidate to be advised of the policy", R. A. LeRoux, Editor of the Hoquiam American, said, "declared himself willing to pay for the announcement. However, it was noted that the copy was boiled down to about half."

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RADIO NOT TO BLAME

Replying to those persons who tried to lay the blame for the long dry spell on the radio, Mr. W. D. Terrell, Chief of the Radio Division of the Department of Commerce, said that some years ago, when there was an excess of rainfall, "someone suggested the closing of radio stations to prevent floods." He declared there is very little difference in the amount of power used this year and the amount of power used during the last few years.

Mr. Terrell pointed out that there is more radio energy dissipated in the ether in and around New York than in any other section of this country, yet that vicinity has not been affected by the drought as has the South Atlantic and mid-West section.

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RAYTHEON'S FINANCIAL REPORT

The following is a financial report for the Raytheon Manufacturing Company for the fiscal year ended May 31st:

Net loss after depreciation and other charges, \$328,800, compared with net loss of \$33,294 in previous fiscal year.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

August 7 - WCLB, Arthur Faske, Long Beach, New York, C. P. to make changes in equipment; WLBW, Radio-Wire Program Corporation of America, Hog Back Mountain, Oil City, Pa., C. P. to move transmitter to a location near Oil City, Pa.; WKBH, Jos. Callaway, trading as Callaway Music Co., La Crosse, Wisconsin, request for authority to voluntarily assign C. P. to WKBH, Inc.; KGIQ, Radio Broadcasting Corp., Twin Falls, Idaho, C. P. to install new equipment and increase power from 250 W. to 500 W. day and 250 watts night on 1320 kc.; King Evans, Marshall, Texas, amendment filed to application for new station to request 1340 kc., 100 W. and daytime hours instead of 910 kc., 100 W. and unlimited hours.

August 8 - WBZ, Westinghouse Electric & Manufacturing Co., E. Springfield, Mass., modification of C. P. to obtain permanent approval of new location, Millis Twp., and extend completion date on C. P. to 3/20/31; WLAP, American Broadcasting Corp. of Ky., Louisville, Ky., license to cover C. P. issued 3/14/30 to move transmitter to Phillips Lane, install new equipment and increase power from 30 W. to 250 W. day and 100 W. night on 1200 kc., unlimited, also license for authority to move old equipment to new location to be used as an auxiliary; WEHC, Emory & Henry College,

Emory, Virginia, C. P. to change equipment; A. L. Bellinger and F. S. Holliday, d/b as Atlanta Broadcast Company, Atlanta, Georgia, amendment filed to application for new station to install automatic frequency control.

August 9 - WKBQ, StandardCahill Co., Inc., New York, N. Y., C. P. to make changes in equipment; WWVA, West Virginia Broadcast Corp., Wheeling, West Virginia, C. P. to move transmitter from Wheeling to South Hills, near Charleston, and studio from Wheeling to Charleston, West Virginia; WTMJ, The Journal Company (The Milwaukee Journal), Brookfield, Wisconsin, C. P. to move transmitter to a location not yet determined, install new equipment, change frequency from 620 kc. to 870 kc., and increase power from $2\frac{1}{2}$ KW day and 1 KW night to 50 KW with unlimited hours; KOA, National Broadcasting Co., Inc., Denver, Colo., C. P. to move transmitter locally, install new equipment, and increase power from $12\frac{1}{2}$ KW to 50 KW, on 830 kc., with unlimited hours.

Applications Other Than Broadcasting

August 8 - WRDT, City of Cleveland, Department of Airport, Cleveland, O., license to cover C. P. for 278 kc., 10 watts, aeronautical service; WQDP, S.A.T. Flying Service, Inc., Hapeville, Ga., license to cover C. P. for 278, 3484, 5600 kc., 250 and 10 watts, aeronautical service; W9XAY, National Battery Broadcasting Co., Portable in St. Paul, Minn., license for portable experimental station to be used in Open Tournament from August 14 to 19, 1930; KTK, Globe Wireless, Ltd., Mussel Rock, Calif., modification of coastal license for additional frequencies of 11080, 11140, 11200 kc.; KGQ, Globe Wireless, Ltd., Mussel Rock, Calif., modification of limited public license for additional frequencies of 7437.5, 14875 kc.; also for same station, C. Ps for new transmitters on 7430, 7445, 9410, 10930, 14860, 14890, 18820, 22700 kc., $1\frac{1}{2}$ KW, limited public service, Serial No. 131; KGS, Globe Wireless, Ltd., Kaena Point, Hawaii, modification of license for additional frequencies of 7437.5, 14875 kc., limited, public service,

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DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission on August 8th granted the following applications:

WELK, Howard R. Miller, Philadelphia, Pa., C. P. to make changes in equipment, including automatic frequency control, and changes in tube complements of transmitter; WLOE, Boston Broadcasting Co., Boston, Mass., permission to discontinue operating until Labor Day in order to facilitate reorganization of the commercial department; WQBC, Delta Broadcasting Company, Vicksburg, Miss., C. P. to replace transmitter, to provide same

power and same hours of operation used before plant was destroyed by fire. Application requesting increase of power from 300 w. to 500 w. and hours of operation from daytime to unlimited set for hearing; KGBX, Foster-Hall Tire Company, St. Joseph, Missouri, consent to voluntary assignment of license to KGBX, Inc.; KTAT, Texas Air Transport Broadcast Company, Ft. Worth, Texas, consent to voluntary assignment to S.A.T. Broadcast Company; WISJ, Wisconsin State Journal Co., Beloit, Wisconsin, consent to voluntary assignment of license to Wisconsin State Journal Broadcasting Company; KTUE, William John Uhalt, Houston, Texas, consent to voluntary assignment of license to Harris County Broadcast Company; WBT, Station WBT, Inc., Charlotte, N. C., authority to install automatic frequency control; WIBA, The Capital Times Co., Madison, Wisconsin, modification of C. P. to change date of required commencement of construction from 5/19/30 to 7/10/30 and change date of required completion of construction from 8/19/30 to 11/10/30;

Also, KFUM, W. D. Corley, Colorado Springs, Colo., C. P. to install new ground system and replace present counterpoise with a ground connection; KMBC, Midland Broadcasting Company, Kansas City, Missouri, modification of license to move studio from Aladdin Hotel, locally in Kansas City; WQAM, Miami Broadcasting Company, Miami, Florida, modification of license to move main studio locally in Miami.

Commercial - WLOXF, Chicago Daily News, Chicago, Ill., permission to use transmitter WLOXF now licensed in an airplane as temporary broadcast pick-up for purpose of reporting the airplane races week of August 23 to September 3, 1584 kc.; KGOT-KGOS, Libby Communications, Inc., KGOT on Island of Molokai, and KGOS on Island of Oahu, T. H., modification of two licenses, permission to use A1 and A2 emissions for period of 90 days; KHFAZ, Pan American Airways, Inc., Aircraft NC 9137, renewal of license 333, 414, 500, 2662, 3070, 3106, 5690, 8015 kc., 12 w; W3XAC, WTAR Radio Corporation, portable in Princess Anne County, Virginia, license to cover C. P. 780 kc., 250 w. for 90 days; W3XAL, RCA Communications, Inc., Bound Brook, N. J., authority to use 6100 kc., for purpose of sending message to members of Bartlett-Greenland expedition; WLO, American Telephone and Telegraph Company, Lawrenceville, N. J., authority for 30 days pending final action on formal application to use special telephone connection to put through a long report of public interest concerning a boxing match; Stromberg-Carlson Telephone Mfg. Co., aboard cruiser "Phyllis II", license to install two transmitters to rebroadcast descriptions of races to be held on Lake Ontario the week of August 10th

The Commission also renewed the licenses of 28 ships and modified the licenses of 2 ships.

Set For Hearing

WOR, Bamberger Broadcasting Service, Inc., Newark, N. J., application for C. P. to move transmitter from Lincoln Highway, Kearny, N. J. to Morris County, N. J., install new equipment, increase power from 5 to 50 KW, no changes in frequency or time involved; WBZ, Westinghouse Electric & Mfg. Co., Boston, Mass., application for modification of C. P. to install different equipment and increase power from 15 to 50 KW; WCAU, Universal Broadcasting Co., Philadelphia, Pa., application for C. P. to move transmitter from Bensalem and Byberry Turnpike and Barlow Sts., Byberry, Pa., to near Philmont Station, Pa., install new equipment, increase power from 10 KW to 50 KW and use portable to test for most desirable location; WHAS, Courier-Journal Co., and the Louisville Times Co., Louisville, Ky., application for C. P. to install new equipment and increase power from 10 KW to 50 KW; WBT, WBT, Inc., Charlotte, N. C., application for C. P. to install new 50 KW equipment with automatic frequency control and increase power from 5 KW to 50 KW; KHJ, Don Lee, Inc., Los Angeles, Calif., application for C. P. to move transmitter from Los Angeles to a location to be determined, increase power from 1 KW to 50 KW, use portable to test for most desirable location, install new equipment; KYW-KFKX, Westinghouse Electric and Mfg. Co., Chicago, Ill., application for modification of license to increase power from 10 KW to 50 KW (retain 1020 kc., and unlimited time); WMAQ, WMAQ, Inc., Chicago, Ill., application for C. P. to install new equipment and increase power from 5 KW to 50 KW.

All of the above applications for power increases to 50 KW have been set for hearing September 15, 1930, 10:00 A. M.

WFDW, Raymond C. Hammett, Talladega, Ala., application for C. P. to move transmitter from Talladega to 3 miles N.E. of Talladega on Anniston Highway, Ala., install new equipment, change frequency from 1420 to 580 kc., and increase power from 100 to 250 watts; KGKO, Wichita Falls Broadcasting Co., Wichita Falls, Texas, application for C. P. to install new equipment and increase night power from 250 to 500 watts; WSPA, Virgil V. Evans, tr. as The Voice of South Carolina, Spartanburg, S. C., application for C. P. to move transmitter from Spartanburg to a location not yet determined, install new equipment, change frequency from 1420 kc., to 1190 kc., and increase power from 250 w. day and 100 w. night to 5 KW; KPWF, Pacific-Western Broadcasting Federation, Ltd., Los Angeles, Calif., application for modification of license, to extend completion date from 7/13/30 to 12/31/30; KFVS, Oscar C. Hirsch, tr. ad Hirsch Battery and Radio Co., Cape Girardeau, Mo., application for C. P. to install composite 250 w equipment and increase day power from 100 to 250 w. Now has 100 w. day and night, on 1210 kc., sharing with WEBQ; WRAF, Charles Middleton, LaPorte, Indiana, application for C. P. to install composite 250 w. equipment and increase day power from 100 to 250 w. (now has 250 w. day and 100 night, 1200 kc., sharing with WWAE); WNBO, John Brownlee Spriggs, Silver Haven, Pa., application for C. P. to install new 1 KW equipment, change frequency from 1200 to 1120 kc., increase power from 100 to 500 w. at night and 1000 w. during day and change hours of operation from sharing with WHBC to unlimited.

For New Stations: Alfred L. Setaro, d/b as Merchants Radio Station, Vicksburg, Miss., application for C. P. to erect new station 350 kc., 100 w., unlimited time; George B. Bairey, Valley City, North Dakota, application for C. P. to erect new station 1310 kc., 50 w., unlimited time; D. Estes, Vernon, Texas, application for C. P. to erect new station 1260 kc., 100 w., daytime operation; J. E. Bennett, tr. as J. E. Bennett Music Co., Cordell, Okla., application for C. P. to erect new station 1500 kc., 100 w., 6 hrs. daily (day and night); Radio Advertising Co. of Pittsburgh, Pittsburgh, Pa., application for C. P. to erect new station 1380 kc., 500 w., unlimited time; R. P. Denman, tr. as R. P. Denman Music Store, Paris, Texas., application for C. P. to erect new station 1210 kc., 100 w., daytime operation; A. P. Stark, Pampa, Texas, application for C. P. to erect new station 1380 kc., 500 w., 7 hours daily; G. C. Blee, tr. as Radio Service Laboratories, Negaunee, Mich., application for C. P. to erect new station 580 kc., 1 KW, Sundays up to 9 P. M., other days up to 8 P. M. and to use portable to test for most desirable location; Forrest H. Bayne, Trenton, Mo., application for C. P. to erect new station 1150 kc., 100 w., unlimited time; R. S. & D. W. Gavin, Marion, Miss., application for C. P. to erect new station 590 kc., 250 w., unlimited time; J. E. Ormann & Walter Denton, d/b as Radio Service Co., Russellville, Ala., application for C. P. to erect new station 570 kc., 10 w., unlimited time.

Also, W6XAL, Pacific-Western Broadcasting Federation, Ltd. near Westminster, Calif., application for modification of C. P. to extend completion date to 9/30/31 (6080, 15250, 21500 kc), KFUO, Evangelical Lutheran Synod of Mo., Ohio and other states, Rev. R. Kretzschmar, Chairman, Board of Control of Concordia Seminary, Clayton, Missouri, application for modification of license, to increase night power from 500 w. to 1 KW (Now has 1 KW day and 500 w. night on 550 kc., sharing with KSD); WDAE, Tampa Publishing Company, Tampa, Florida, application for license to cover C. P. which authorized installation of new composite 1 KW equipment; WSPA, Virgil V. Evans, tr. ad The Voice of South Carolina, Spartanburg, S. C., application for C. P. to install new equipment, change frequency from 1420 to 590 kc., and increase power from 100 w. (250 L.S.) to 1 KW, no change in hours of operation involved; WSPD, The Toledo Broadcasting Co., Toledo, Ohio, application for modification of license, to increase night power from 500 to 1000 watts (no other changes 1340 kc., unlimited time); WISJ, The Wisconsin State Journal Co., Beloit, Wisconsin, application for modification of license to change time from sharing with WIBC and WPCC (10 $\frac{1}{2}$ hours a week) to operate 55 $\frac{1}{2}$ hours a week.

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VICTOR TO HAVE SELF RECORDING SET

In the new Victor line will be a radio-phonograph which includes a recording outfit with a small portable microphone attached to the set by means of a flexible cord. The control knob of the unit permits an operator either to play an existing phonograph record, make a recording of music or words played or spoken before the small microphone or of a program being received over the radio, or reproduce the received program on the loud-speaker of the radio-phonograph outfit. The special pick-up of the phonograph is used for both the recording and reproducing process.

Blank records six inches in diameter for making home recordings will be made available when the sets are placed on the market. This set is provided with a record compartment under the lid of the cabinet where the record-making and playing turntable is located.

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LINDBERGH'S RADIO ADDRESS ON RECORDS

Colonel Charles A. Lindbergh, a group of industrial leaders and aviators, together with the leading broadcasting networks of the world, will receive souvenir phonograph records of the address made by Colonel Lindbergh on Friday last over the radio on "International Aviation," according to Walter Lemmon, President of Electro Broadcasters Corporation, 6 West 32nd Street, New York City.

Engineers of the recording concern intercepted the address over the radio as Colonel Lindbergh spoke for WABC, WAAF, and WJZ, from the Columbia System headquarters, transcribed it electrically on a wax master-record, which has been stereotyped and reproduced in quantity for preservation to posterity.

Among the foreign broadcasting systems which will receive a disk record of the Lindbergh address, Mr. Lemmon said are the British Broadcasting Corporation, the Reich Rundfunk Gessellschaft of Berlin, the Swedish radio system at Stockholm, South American broadcasting organizations and the radio systems of Australia and New Zealand.

The main disks run fifteen minutes, without change, through a new process invented by Charles Hasin, engineer-recorder of the concern, Mr. Lemmon said.

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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. :: ::

National Broadcasting Company, Inc.
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RECEIVED

AUG 16 1930

PRESS RELATIONS DEPARTMENT
G. W. JOHNSTONE

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No. 360

SALTZMAN SEES NO BIG SHAKEUP

Maj. Gen. Charles McK. Saltzman, retired, Chairman of the Federal Radio Commission, shortly returned from a vacation, has quieted rumors of a big shakeup among broadcasting stations because of the inequalities revealed recently by the Engineering Division on the basis of a unit survey.

There will probably be a constant thinning out of undesirable stations, however; with few new licenses to be granted because of the present congestion in the broadcasting spectrum.

While admitting that there are inequalities in the zone and State distribution of broadcasting units, Gen. Saltzman believes that the Commission is complying with the Davis Equalization Amendment about as well as could be expected.

"I am not sure that we have not complied to a reasonable extent with the law", he said, "for it is a virtual impossibility to bring about a precise mathematical distribution of stations, power, channels, and hours of operation among the 48 States, the District of Columbia, and the territories according to population.

"A scientific distribution must take into consideration the vital element of territory to be covered as well as population and the law does not cover this phase."

The Commission will make minor shifts from time to time, the Chairman said, to improve reception for the listeners. While new stations will be licensed in zones and States that are under quota, there is little chance of applicants in the over-quota areas having their requests granted.

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DUAL OPERATION TEST GETS O. K.

Stations WCKY, of Covington, Ky., and WORD, of Chicago, have been granted permission by the Federal Radio Commission to conduct daylight tests to determine the interference caused by simultaneous broadcasting on the same channel without any particular attempt at synchronization.

The stations are authorized to begin at once operating on the 1,490 kilocycle channel for a 10-day period between 10:30 and 11:30 A. M.

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KDKA PROPOSES NOVEL TRANSITION

The Westinghouse and Electric Manufacturing Company filed an application with the Federal Radio Commission on August 12th for permission to operate its old and new KDKA transmitters simultaneously until a "gradual transition" from the former to the latter could be achieved with the least annoyance for listeners.

The pioneer transmitting station is located at Wilkins Township, on the outskirts of Pittsburgh, while the new unit is 1.2 miles south of Saxonburg, Pa., or about 30 miles from the old station.

It is proposed to operate the old equipment in synchronization with the new for a period of about three weeks. The former will broadcast with a maximum amount of power to begin with, while the latter will use a minimum portion. Gradually, the old transmitter's power will be reduced, and the new station's wattage will be correspondingly increased.

Authority is also requested for a license to operate the old transmitter, which was the first broadcasting station in the country, as an auxiliary station.

The Westinghouse Company is also engaged in installing a 400,000 watt transmitter, the ^{most} powerful in the world, near Pittsburgh for early morning experimental broadcasts.

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AMOS 'N' ANDY SIGN LONG CONTRACT

Amos 'n' Andy have proved so popular with radio listeners that the National Broadcasting Company, as their exclusive agent, has signed a long-time contract for their services with the Pepsodent Company of Chicago, present sponsors of their program.

Charles J. Correll and Freeman Gosden, creators and portrayers of radio's favorite characters, are nearing the end of their first year with NBC and the tooth paste manufacturers. The contract is said to call for a salary on a sliding scale over a period of five years netting them the largest amount ever paid radio entertainers. In addition to this, the Pepsodent Company paid Correll and Gosden a substantial bonus this year above their salary.

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STATION KVOO SET FOR HEARING

Station KVOO, of Tulsa, Okla., which has made application for permission to install a 50,000 watt transmitter, has been designated for hearing along with other applicants on September 15th. This makes the eighteenth station scheduled for hearing at the superpower parley.

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CANADIAN RADIO INDUSTRY'S GROWTH

One of the greatest annual increases ever recorded for a Canadian industry is that now reported for the manufacture of radio sets and parts, according to the Department of Interior of Ottawa, Canada. A census of this industry points to an increase of 65 per cent in the value of production for 1929 when compared with the immediately preceding year. The Dominion Bureau of Statistics reports that the production of complete radio sets, parts and batteries in Canada during 1929 reached a value of \$20,966,137. This is a preliminary figure on the value of the industry and compares with \$12,768,024 reported for 1928. In addition to the above output, the furniture industry produced 87,200 radio cabinets worth \$1,279,500 in 1929 as compared with a value of \$709,000 in the previous year.

Canada was also a large importer of radio sets and parts from the United States, these imports during 1929 being worth \$10,784,156, according to figures reported to the Bureau by the United States Trade Commissioner at Ottawa. Radio transmitting sets and parts were worth \$380,396; radio receiving sets \$5,406,233; radio tubes, \$317,217; receiving set components, \$2,213,762; loud speakers, \$734,353; and receiving set accessories, \$1,732,195.

The survey of the Canadian radio manufacturing industry does not include a great number of small custom workers who assemble or build sets to order. The establishments classed as manufacturers only are included and of the 47 different firms reporting an output of radio sets or parts, 40 were in the electrical supplies industry, 5 in the musical instruments industry; 1 in the chemical industry, and 1 in the furniture industry. Complete sets were made in 18 different plants and the output numbered 143,968 sets worth \$14,986,173 as compared with a corresponding total of 81,032 sets worth \$7,486,127 in 1928. In the value of complete sets an increase of 100 per cent is therefore shown over the previous year.

Vacuum tubes were manufactured in 4 factories and numbered 2,924,270 valued at \$3,100,148. In this item also a very large increase is shown over the previous year when radio tubes made in Canada were worth \$2,043,473. Batteries, storage and dry cell, said to be manufactured for radio purposes, were produced in 14 establishments and the value totalled \$1,791,639 as against \$2,456,065 in 1928.

The report also includes a statement on the radio licenses issued by the Department of Marine and Fisheries at Ottawa. In the fiscal year ended March 31, 1929, licenses were issued to 423,557 persons exclusive of 589 to the blind, as compared with 296,756 licenses issued in the preceding fiscal year. Transmitting licenses were issued to 1,289 stations during the fiscal year, these including 81 to private commercial broadcasting stations, 10 to amateur broadcasting stations, 47 to public commercial stations, 71 experimental, 138 private commercial, 610 amateur experimental and 319 to ships.

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KANSAS WANTS BAN ON KTNT

The discontinuance of the license of Station KTNT, of Muscatine, Iowa, is sought by the Kansas State Board of Health in charge placed before the Federal Radio Commission. The complaints allege that the station, operated by Norman Baker, has permitted the medical profession to be "maligned, abused and falsified" in talks broadcast from the KTNT studio.

The station recently was given a temporary license which expires on October 31st next. Under the terms of this license, the station is required to stand hearing before the Commission prior to that date and show cause why its license should be renewed.

Dr. C. H. Kinnaman, epidemiologist for the Kansas State Board, declared in an affidavit filed with the Commission, that he had repeatedly heard the speaker over Station KTNT "claim to cure cancer in any stage" and that he had urged sufferers from this disease "to keep away from the 'Slaughter House', the State University Hospital at Iowa City, Iowa."

Earle G. Brown, M.D., Secretary and executive officer of the Kansas Board, in a letter to the Commission, protested also against the continuation of the station's license, asserting that the remarks attributed to the "broadcaster" are of a nature that "are derogatory to the best interests of public health."

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: BUSINESS LETTER BRIEFS :
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Radio's entrance into the field of China's international communications has brought about a reduction in rates, according to the Department of Commerce. Formerly the rate from San Francisco to Shanghai was 88 cents a word for ordinary messages; the present rate is 75 cents.

A monthly radio forum for the teachers of Ohio will be inaugurated by the Ohio School of the Air in September. At the close of the school day, on specified occasions, the teachers will listen in on addresses by leading American educators.

A record in shipping time is claimed by the Arcturus Radio Tube Co., of Newark, N. J. A rush order of photolytic cells was put aboard an airplane at the Newark airport and seven days later reached Santiago, Chile. The normal running time, by steamship, is from four to five weeks.

On or about September 1, the office of the Vice-President and Sales Manager of the RCA Victor Company, the Radiola Division, the Engineering Products Division, and the RCA Export Department, will move to Camden, N. J., and will be located in the office building at the plant of the RCA Victor Company, where adequate facilities are provided for all offices.

Senator Marconi's priceless experimental wireless instruments were in danger of destruction August 11th when his yacht, "Electra" caught fire, according to the New York Times.

Aviation hasn't been setting the only endurance records in Chicago this summer, for on August 1st, a Silver-Marshall model 30A radio chassis had been playing continuously at the company's office for 9,317 hours, or one year, 23 days, and five hours. During that period the only repairs have been two tube replacements.

Powell Crosley, Jr., has bought the famous Lockdee-Vega plane which Capt. William S. Brock used to establish a transcontinental record between San Diego and Jacksonville. The plane, which has a top speed of 190 miles an hour, is equipped with a 150 watt radio transmitter and a receiving set.

The new line of Radiolas was shown more than 250 dealers the night of August 13th at a dinner in the Wardman Park Hotel. The Joseph M. Zamoiski Company, Washington distributors, was host to the retailers.

Frank Russell, Manager of Station WRC, Washington, was operated on for appendicitis on August 13th at Garfield Memorial Hospital. A few hours before he was rushed to the hospital, he had been playing golf with Harry Butcher, local Manager of the Columbia System. He was reported recuperating nicely.

Station KTAR, of Phoenix, Ariz., was granted a license on August 13th to install a 7.5 watts short wave transmitter aboard the airplane NK192K for broadcasting the "Women's Air Derby" for five days beginning August 15th. Station KTAR will rebroadcast the reports from the plane.

The Columbia System has filed an application for a new experimental television station at New York, to operate with 500 watts power on 2,778 kilocycles.

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COMMISSION STAFF ENLARGED

John A. Willoughby and Hobart Newman have been appointed aides in the Engineering and Legal Divisions, respectively of the Federal Radio Commission.

A native of Florence, S. C., Mr. Willoughby is a Senior Radio Engineer and has been associated with Aladdin Industries, of Chicago, the Naval Research Laboratory and the Bureau of Standards.

Mr. Newman was formerly Assistant United States Attorney of the District of Columbia. He is a graduate of both George Washington and National Universities of the District of Columbia.

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RADIO ENGINEERS TO MEET IN-CANADA

The Institute of Radio Engineers will hold its Fifth Annual Convention August 18-21 at Toronto, Ontario. Technical papers on various radio, electric, and talking-picture subjects will be presented.

Recent developments in broadcast transmitters will be discussed by I. J. Kaar of the General Electric Company and C. J. Burnside of Westinghouse. O. B. Hanson of the National Broadcasting Company will speak on "Design and Acoustics of Broadcast Studios." Dr. A. N. Goldsmith has been invited to discuss sound motion pictures.

The technical session on Tuesday, August 19th, beginning at 2 P. M., will deal chiefly with radio apparatus for aircraft. A symposium on international communication will feature the 8 P. M. session on Wednesday, August 20th.

Various trips of inspection will be made to Canadian radio factories, electric power plants, Toronto University, radio stations and transformer stations. The headquarters will be the King Edward Hotel.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

August 11 - WRNY, Aviation Radio Station, Inc., Coytesville, N. Y., C. P. to make changes in equipment; KDKA, Westinghouse Electric & Manufacturing Co., Wilkins Twp., Penn., license to cover C. P. issued 6/11/29 to install new equipment at a new location, 1.2 miles south of Saxonburg, Pa., also requests authority to operate old equipment at old location, Wilkins Twp. as an auxiliary transmitter; also requests authority to operate old transmitter at old location in synchronization with new equipment at new location to make a gradual transition from one location to the other, such transition to cover a period of about 3 weeks; KMLB, J. C. Liner, Monroe, La., modification of license to change hours from daytime to unlimited on 1200 kc.; MSUI, State University of Iowa, Iowa City, Iowa, modification of license to change hours from 3/7 time to unlimited on 880 kc.; KELW, Union Bank & Trust Co. of Los Angeles, Guardian of the Estate of Earl L. White, Burbank, Cal., requests for authority to involuntarily assign license to the Union Bank & Trust Co. of Los Angeles, Guardian of the Estate of Earl L. White from the present owner, Earl L. White.

August 12 - For New Stations: Cleveland Radio Broadcasting Corp., exact location not determined, Dayton, Ohio, C. P. to erect a new station to use 1310 kc., 100 W., and unlimited hours; Lynn Dickerson & C. A. Nietert, d/b as The Edison Shop, Brownsville, Texas, C. P. to erect a new station to use 1330 kc., 15 W. and unlimited hours; Dr. James H. Atherton, Guthrie, Oklahoma, C. P. to erect a new station to use 600 kc., 75 W., and unlimited hours.

August 13 - WHOM, New Jersey Broadcasting Corp., Jersey City, N. J., C. P. to make changes in equipment; WFBL, Onondaga Radio Broadcasting Corp., Syracuse, N. Y., C. P. to install a new transmitter and increase power from 1 KW to 2½ KW day and 1 KW night at the location authorized by C. P. issued 6/20/30, near Collamar and Minoa, N. Y.; WREC, WREC, Inc., Whitehaven, Tennessee, C. P. to make changes in equipment; KTNT, Norman G. Baker, Muscatine, Iowa, C. P. application amended to request authority to move transmitter 1 mile West of Fairport, Iowa, between Muscatine and Fairport; KFHA, Western State College of Colorado, Gunnison, Colorado, request for authority to voluntarily assign license to Waldo L. Hawkins & Dr. A. R. Craig, d/b as the Hawkins-Craig Syndicate; also C. P. to move transmitter and studio of Station KFHA from Gunnison to Grand Junction, Colorado, install new equipment, and increase power from 50 W. to 100 W. on 1200 kc.; George F. Bissell, Lake Placid, N. Y., C. P. to erect a new station to use 1220 kc., 500 W., and daytime hours.

Applications Other Than Broadcasting

August 11 - Colonial Air Transport, Inc.: Aboard Airplanes NC 9681, NC 9663, NC 8486, NC 9677, new aircraft licenses for 5600, 3484, 3106 kc., 50 watts; W9XO, Morkrum Kleinschmidt Corp., Chicago, Illinois, experimental C. P. for new transmitter on 1604, 2398, 3256, 4795, 6425, 8650 kc., 750 watts; W8XAL, Crosley Radio Corp., near Mason, Ohio, relay broadcasting C. P. to install new 10 KW equipment on 6060 kc.; Atlantic Broadcasting Corp., New York, N.Y., new visual broadcasting C. P. on 2778 kc., 500 watts; KGSB, Aeronautical Radio, Inc., Alameda, Calif., aeronautical C. P. for change in location and new transmitter on 3070, 3460, 6350, 8015, 12180, 278 kc., 400 watts; American Fishermen's Radio Corporation, Ltd., San Diego, Calif., new public coastal C. P. on 5525, 16900 kc., 350 watts; Atlantic Broadcasting Corp., portable, new experimental C. P. on 4795 kc., 15 watts; KGJX, City of Pasadena, Pasadena, Calif., license to cover C. P. on 1712 kc., 50 watts, emergency police service; KSE, Radiomarine Corp. of America, Torrance, Calif., license to cover C. P. on 500, 408 kc., 1 KW, public coastal service.

KPH, Radiomarine Corp. of America, Bolinas, Calif., modification of license to show correct power of two transmitters public coastal service; KJE, Reno, Nevada, and KEU, Burbank, Calif., Boeing Air Transport, Inc., assignment of licenses to Aeronautical Radio, Inc.; W6XE, Dr. John E. Waters, Orange, Calif, renewal of experimental license on 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300 kc., 500 watts.

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DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission granted the following applications August 12:

WJBC, Wayne Hummer & H. J. Dee, d/b as Kaskaskia Broadcasting Co., La Salle, Ill., C. P. to move studio and transmitter locally and install new equipment; WFBE, Radio Station WFBE, Inc., Cincinnati, Ohio, C. P. to install new 250 watt equipment with automatic frequency control; KLCN, Charles Leo Lintzenich, Blytheville, Arkansas, special authority to broadcast full time August 12, 1930; WCKY, L. E. Wilson, Inc., Covington, Kentucky, special authority to conduct simultaneous daylight operations with WCHI, and WORD at Chicago, Ill., with whom it now divides time; WJAG, Norfolk Daily News, Norfolk, Nebraska, special authority to broadcast night of August 12, 1930, beginning 10:30 P. M.; WWVA, West Virginia Broadcasting Corporation, Wheeling, W. Va., C. P. to move studio from Wheeling, to Charleston, W. Va., also transmitter from Wheeling to near Charleston, W. Va.

Commercial - W2XA, American Telephone & Telegraph Co., Rocky Point, N. Y., renewal of license as follows: 45 to 75 kc; except 46, 48, 51, 54, 56, 58, 64, 66, 68, 72 and 75 kc (Govt. frequencies); 190 KW power for 90 days only; W2XDC, RCA Communications, Inc., portable in vicinity of Riverhead, N. Y., license to cover C. P. 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300, 34600, 51900, 60000 to 400000 kc., 15 watts, unlimited time; KGSV, Wichita Falls, Texas, KGSF, Tulsa, Oklahoma, and KGSC, Oklahoma City, Okla., Aeronautical Radio, Inc., license to cover C. P. 278 kc., calling and working frequencies from all ground stations to itinerant aircraft, power not to exceed 15 watts; 3070, 3460, 6350, 8015 (day only), 12180 (day only), power 400 w.; KHIWD, John Buffelen, Airplane NR-100 W, license 8290 kc., 50 w., radiotelegraph emission for 90 days only.

Also, KQQ, Iowa City, Iowa, and KQM, Des Moines, Iowa, Boeing Air Transport, Inc., consent to voluntary assignments of licenses to Aeronautical Radio, Inc.; W7XC, Globe Wireless, Ltd., portable, Seattle, Wash., license to cover C. P. 1604, 2398, 3256, 4795, 6425, 8650, 12850 and 17300 kc., 1 KW; KGOZ, City of Cedar Rapids Police Dept., Cedar Rapids, Iowa, license to cover C. P. 2470 kc., 50 w; WGE, New York, Rio & Buenos Aires Line, Inc., Sheepshead Bay, N. Y., modification of license 12210 kc., day only, 500 w., for emergency point-to-point communication, license to expire 12/31/30; WBY, Same Co., St. Thomas, Virgin Island, modification of license 12210 kc., day only, 100 watts power, for emergency point-to-point communication, license to expire 12/31/20; WGD, Same Co., San Juan, P. R., modification of license 12210 kc., day only, 200 watts power for emergency point-to-point communication, license to expire 12/31/30; WGF, Same Co., Miami, Florida, modification of license 12210 kc., day only, 1 KW power, for emergency point-to-point communication, license to expire 12/31/30.

Also, W9XV, Rev. LannieW. Stewart, Cartersville, Missouri, consent to voluntary assignment of license to Ozark Radio Corporation, Cartersville, Mo.; WJP, Press Wireless, Inc., Little Neck, N. Y., modification of license for change in transmitter location from Little Neck, N. Y., to Cantiague Village; KTAR, KTAR Broadcasting Co., Phoenix, Arizona, Plane NK192K, authority to install transmitter on board aircraft NK192K for rebroadcasting the women's air derby August 17 and 18, frequency 2476 kc., power 7.5 watts for 5 days beginning August 15th.

Set For Hearing

KVOO, Southwestern Sales Corporation, Tulsa, Okla., application for C. P. to install 50 KW equipment, increase power from 5 KW to 50 KW and change hours of operation from sharing equally with WAPI to unlimited.

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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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AUG 16 1930
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7:8, 9, 10, 11, 12, 1, 2, 3, 4, 5, 6
August 14, 1930

No. 360

PATENTS, PATENT SUITS, TRADE-MARKS, REISSUE, DESIGN

The following patents were granted during the week ending August 12, 1930:

- 1,772,479. Electrical Relay. William W. Edson, Newtonville, Mass. Filed September 2, 1926.
- 1,772,480. Transmission System. Robert D. Evans and Hollis K. Sels, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Co. Filed March 15, 1923.
- 1,772,506. Wave Filter. Herman A. Affel, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Filed April 2, 1923.
- 1,772,508. Voltage-Limiting Device. Henry M. Bascom, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Filed October 27, 1925.
- 1,772,509. Harmonic Eliminator. Paul W. Blye, Rutherford, N. J., assignor to American Telephone and Telegraph Co., Filed November 21, 1927.
- 1,772,517. Radio Receiver. Russell S. Ohl, New York, N. Y. assignor to American Telephone and Telegraph Company. Filed February 20, 1926.
- 1,772,519. Electrooptical Transmission. Ralph K. Potter, New York, N. Y., assignor to American Telephone and Telegraph Company. Filed March 12, 1927.
- 1,772,541. High Current Filter. Edward G. Gage, Brooklyn, N. Y., assignor to Radio Patents Corporation, New York, N.Y. Filed July 13, 1927.
- 1,772,550. Echo Suppressor. Doren Mitchell, New York, N. Y., and Harold C. Silent, Los Angeles, Calif., assignors to American Telephone and Telegraph Co. Filed Feb. 20, 1929.

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

- 1,772,551. Echo Suppressor. Doren Mitchell, New York, N. Y., and Harold C. Silent, Los Angeles, Calif., assignors to American Telephone and Telegraph Co. Filed February 20, 1929.
- 1,772,552. Echoe Suppressor. Doren Mitchell, New York, N. Y., and Joseph Herman, Westfield, N. J., assignors to American Telephone and Telegraph Company. Filed February 20, 1929.
- 1,772,558. Loading System. Timothy E. Shea, Rutherford, N. J., assignor to Bell Telephone Laboratories, Inc., New York, N. Y. Filed June 13, 1927.
- 1,772,562. Current Rectifier and Voltage Regulator. Ted E. Foulke, Nutley, N. J., assignor to General Electric Vapor Lamp Company, Hoboken, N. J. Filed Jan. 14, 1927.
- 1,772,598. Variable Condenser. George A. Yanochowski, La Grange, Ill. Filed June 27, 1924.
- 1,772,603. Current Rectifier and Voltage Regulator. Ted E. Foulke, Nutley, N. J., assignor to General Electric Vapor Lamp Co., Hoboken, N. J. Filed December 17, 1926.
- 1,772,605. Graphical Recording Means for Stock Quotations. Horace B. Holland, Woodside, N. Y. Filed October 20, 1924.
- 1,772,607. Receiving Circuit. Samuel Seaman Jones, Brooklyn, N.Y. assignor to Kellogg Switchboard and Supply Co., Chicago, Ill. Filed February 26, 1923.
- 1,772,645. Sound Amplifier. Leslie Stevens, Glen Ridge, N. J., assignor to Stevens Manufacturing Corp., New York, N. Y. Filed September 29, 1925.
- 1,772,776. Antenna Eliminator and Radio Set Protector. Louis Ludwig, Brooklyn, N. Y. Filed June 19, 1928.
- 1,772,796. Amplifier For Coded Train-Control Apparatus. George W. Baughman, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Filed October 9, 1929.
- 1,772,882. Sound-Reproducing Apparatus. Maximilian Weil, New York, N. Y. Filed November 21, 1922.
- 1,772,893. Electrical Resistance Unit and Terminal. William M. Heina, Long Island City, N. Y., assignor to Automobile Radio Corporation. Filed January 15, 1929.

- 1,772,901. Disk-Record Holder. Bertram C. Kenyon, Orlando, Fla., assignor to Automatic Musical Instrument Co., Grand Rapids, Mich. Filed March 23, 1929.
- 1,772,990. Sound Recording Apparatus. Joseph D. Feher, Miami, Fla. Filed February 23, 1926.
- 1,773,008. Vapor-Electric Rectifier. John C. Read, Rugby, England, assignor to General Electric Company. Filed January 18, 1929, and in Great Britain February 16, 1928
- 1,773,036. Mercury Relay. Alan S. Fitz Gerald, Schenectady, N.Y., assignor to General Electric Company. Filed January 12, 1928.
- 1,773,082. Electromagnetic System. Henry C. Harrison, Port Washington, N. Y., assignor to Western Electric Co., Inc., New York, N. Y. Filed December 6, 1923.

Reissue

- 17,766. Grid-Leak Cell Circuit. Charles Francis Jenkins, Washington, D. C., assignor to Jenkins Laboratories, Washington, D. C. Filed Jan. 30, 1930. Serial No. 424,700. Original No. 1,667,384, dated April 24, 1928, Serial No. 745,211 filed October 22, 1924.

Patent Suits

- 1,076,884. J. L. Hayden, Vapor rectifier for high-potential circuits; 1,086,106, E. Weintraub, Vapor electric apparatus; 1,134,786, same. Rectifying alternating current; 1,110,847 same. Operating vapor electric apparatus from an alternating-current source; 1,086,185, O. O. Krub, same, D.C., S.D., N. Y., Doc. E. 39/219, General Electric Co. V. American Brown Boveri Electric Corp. Consent decree for plaintiff May 12, 1930
- 1,545,207, 1,617,179, 1,617,180, C. G. Smith, Electrical apparatus; 1,617,171, same, Method and apparatus for the rectification of alternating currents; 1,617,174, same, Electrical apparatus and method, D.C., N. J., Doc. E 3879, Raytheon, Inc., v. Paramount Mfg. Co., Inc. Decree for injunction only, April 7, 1930.
- Re.15,278, I. Langmuir, Electron-discharge apparatus, D. C., N. J., Doc. E 1880, General Electric Co. v. Clearton Vacuum Tube Co. et al. Dismissed April 30, 1930.

Design

81,808. Combined Radio and Phonograph Cabinet or Similar Article. Edward M. Richards, West Orange, N. J., assignor to Thomas A. Edison, Inc., West Orange, N. J. Filed December 14, 1928. Term of patent 7 years.

Trade-Marks

- Ser. No. 272,669. Radiovisor Parent Limited, London, England. Filed Sept. 19, 1928. "Radiovisor" foraudible signals and the like..... Claims use since February 16, 1927.
- Ser. No. 302,366. Arcturus Radio Tube Company, Newark, N. J. Filed June 13, 1930. Letters "Arcturus" written in semi-circle, for light-sensitive cells, radio detecting, rectifying and amplifying tubes. Claims use since March 12, 1930, on light-sensitive cells, and since Jan 20, 1927, on remaining goods;
- Ser. No. 302,416. The Fred W. Stein Radio Company, Atchison, Kans. Filed June 13, 1930. "Aztec" for Radio Receiving Sets. Claims use since May 15, 1930;
- Ser. No. 302,687. Karadio Corporation, Minneapolis, Minn. Filed June 21, 1930. "Karadio" written in semi-circle shape. For Radio Receiving Sets. Claims use since May 1, 1929.
- Ser. No. 302,768. CeCo Manufacturing Company, Inc., doing business as Powertone Radio Tube Co., Providence, R. I. Filed June 24, 1930. "Powertone" written in semi-circular shape. For Electrical Vacuum Tubes and Valves. Claims use since June 10, 1930.
- Ser. No. 302,727. Wilson Duncan, doing business as Wilson Duncan Broadcasting Company, Kansas City, Mo. Filed June 23, 1930. "Radio" for Trade Stamps. Claims use since June 10, 1930.

Trade-Mark Registration Not Subject To Opposition

273,861. Wolfe Radio Company, Los Angeles, Calif. Filed Nov. 28, 1928. Serial No. 276,007. "Cinegraph" for Motion-Picture Film Having a Sound Track Thereon or Motion-Picture Film Adapted to be Synchronized with a Sound Record. Claims use since November 20, 1928.

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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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AUG 19 1930

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No. 361

WESTINGHOUSE SEEKS FOREIGN FIELDS

The Westinghouse Electric and Manufacturing Company is seeking to invade the foreign field with American radio programs via short waves, it was revealed August 15th with the filing of an application with the Federal Radio Commission.

Such a scheme is forbidden under the present regulations of the Commission though stations are permitted to transmit programs to other nations on an experimental basis. WGXX, of East Pittsburgh, operated with 40,000 watts by Westinghouse, has been engaged in relay broadcasting to Latin American countries, especially, for several months. These programs, originating in the studio of KDKA, are picked up, however, in all parts of the world with short wave receivers.

The present application seeks the removal of restrictions on commercial rebroadcasts so that advertising time on the air may be sold to sponsors of programs just as is done for local broadcasting.

The Radio Commission has set the request for a hearing on October 17th. Westinghouse holds seven of the 40 licenses in this country for experimental rebroadcasting, it was said, and has stations at scattered points.

It is understood that Westinghouse does not intend to invade European countries in an effort to compete with their radio stations, but is particularly interested in sending entertainment programs to South American countries, where radio is still a novelty.

The rebroadcasting of American programs in this territory has already created a demand for short wave receiving sets in practically all South and Central American countries and in the West Indies, it was said in the application, but English and German manufacturers are supplying most of the demands.

By sponsoring relay broadcasts, Westinghouse contends, American manufacturers of receiving sets, as well as other commodities, could establish markets for their products in these fields.

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WLW SEEKS RELAY STATION

A high frequency relay broadcasting station to be used for rebroadcasting programs from foreign nations and for transmitting domestic programs abroad is proposed by the Crosley Radio Corporation, of Cincinnati, in an application filed with the Federal Radio Commission.

The applicant, which operates Station WLW with 50,000 watts, requests permission to erect a 10,000 watt station to operate on 6,060 kilocycles at a cost of \$30,000. The application stated that more than \$300,000 had already been spent on WLW.

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BROWN TO ROTATE ASSISTANTS

Col. Thad H. Brown, General Counsel of the Federal Radio Commission, has announced that he has changed the assignments of two of his three assistants and plans to introduce at once a system of rotation of duties so that each of his aides will be constantly familiar with the various legal phases of the Commission's work.

Col. Brown at the same time announced the adoption of new procedure governing the handling of complaints against licensed stations, under which accurate check will be made of station operations.

Under the revision of assignments, Paul D. P. Spearman, Assistant General Counsel, assumes charge of the Investigation and Complaint Section of the Legal Division, taking over the duties of Assistant General Counsel Ben S. Fisher. Mr. Fisher, in turn, will succeed to Mr. Spearman's assignment in charge of the Hearing and Records Section.

Patrick Retains Post

Duke M. Patrick, also an Assistant General Counsel, remains in charge of the Research and Drafting Section.

Assisting Mr. Fisher in the Hearings and Records Section will be Ralph L. Walker and Hobart Newman. The attorneys will represent the Commission at formal hearings on applications of every nature.

Mr. Spearman will be assisted by W. J. Clearman, Chief Investigator of the Commission, and David H. Deibler, Assistant Attorney. Mr. Patrick's assistants will remain the same as at present, Arthur W. Scharfeld and Fanney Neyman.

The new procedure governing complaints will become immediately effective, Col. Brown asserted. It is prescribed that 30 days prior to the expiration of licenses of all stations, a written report be made regarding complaints that have been filed against licensees together with a synopsis of the evidence available in each case "in order that proper recommendation may be made to the Commission."

Text of Procedure

The new procedure is set out in the following memorandum, made public by Col. Brown, in full text:

I. All complaints of either a technical or general nature shall be routed from mail room to Legal Division.

II. The Complaint Section will then have charge of the same and they will be routed as follows:

(a) To Assistant General Counsel for distribution and preparation of answer. He shall keep a record of all complaints by station call letter.

1. To chief investigator in this section who shall prepare and keep a card index system and answer such matters as shall be referred to him by Assistant General Counsel.

2. Chief investigator shall keep a record of all reports on all frequency deviations.

3. All engineering matters except supervisor's affidavits concerning frequency deviations shall be referred to the Chief Engineer.

III. All answers and reports will then be returned to Assistant General Counsel for submission to General Counsel and all complaints will be sent to complaint files. Record will be kept by the Assistant General Counsel on the front of each complaint file folder pertaining to the violation of that station.

IV. Any investigation of an engineering nature will be carried on by the Engineering Section and any investigation or complaint of any other nature will be carried on by the Legal Section. The Assistant General Counsel will also follow up and check on frequency deviations and send notices of all complaints to the License Division to be filed with the respective license applications.

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MACKAY OPENS ROCKLAND STATION

The Mackay Radio and Telegraph Company, Inc., on August 14th began operation of a new radio station at Rockland Maine, for communication with ships at sea. This station will operate on both long and intermediate waves and will be known as Station WAG. This is the fourth station which this company has established on the Atlantic coast, the others being at Sayville, Long Island; New York City; and West Palm Beach, Fla.

The new station is situated so as to serve ships on the North Atlantic ship lanes and those in arctic waters. Radio conditions along the Maine Coast are particularly favorable over practically the entire year, and service from stations there is most consistent. Being so far north, the station also will be able to communicate with ships in arctic waters which may be equipped with radio apparatus capable of sending only short distances. In this respect, Mackay radio has now done for the Atlantic what it did for the Pacific Coast some time ago when it established stations along the Pacific at strategic points designed to cover the Pacific Ocean.

The station at Rockland will be directly connected with New York through the lines of the Postal Telegraph-Cable Company, and rates to and from ships via Rockland will be the same as now apply through the other Mackay Radio stations on the Atlantic.

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BRUNSWICK TO GIVE ANNUAL AWARD

After more than a year of intensive planning, the Brunswick Radio Corporation has announced the creation of an annual award for achievement in the radio and broadcasting fields. This award will take the form of a trophy, the Brunswick Cup, which will be presented for the first time during September, 1931.

The Comtesse Marguerite de Taurines will act as organizer and ex-officio member of the Award Committee. She is being given a free hand in the choice of judges with the stipulation, however, that no representative either of the broadcast world or of the Brunswick organization shall be among the judges.

Under the terms of the award, it will be presented each year. It may go to an individual broadcaster, to a commercial sponsor of a program, to an advertising agency or to a broadcasting station.

It may be presented for the creation of one program or may be presented for a series of programs. On the other hand, the award may not be presented for a program at all but may go for an achievement of semi-technical character.

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RADIO BEACON ESTABLISHED AT SCOTCH CAP

A radiobeacon has just been established at Scotch Cap Light Station, off the most westerly point of the Alaskan mainland, in one of the foggiest regions of the world, according to the Lighthouse Service of the Department of Commerce. It will greatly aid navigation between northwest coast points and the Orient.

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200 MEMBERS OF CONGRESS BROADCAST

More than 200 members of Congress made speeches aggregating in excess of 500,000 words over the networks of the National Broadcasting Company and the Columbia Broadcasting System during the 71st Congress, according to records made available August 15th.

NBC reported to the Federal Radio Commission that 100 addresses, totalling 250,000 words, were put on the air from Washington during the Congressional session. Columbia put on the air 72 Senators and 19 Representatives with approximately the same number of words.

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HALF YEAR RCA REPORT MADE

A total gross income of \$52,732,079 and net income of \$505,098 for the Radio Corporation of America for the six months ended June 30, 1930, were reported to the stockholders on August 15th by General James G. Harbord, Chairman of the Board of the Directors, and David Sarnoff, President of the Radio Corporation.

In addition to the usual statement of earnings, the Corporation issued a consolidated balance sheet. These statements give effect to the purchase by RCA of the radio manufacturing rights and tangible assets in the United States (other than the relatively small manufacturing business of transmitters and transmitting tubes) of the General Electric and Westinghouse Companies by payment of 6,580,375.1 shares of RCA Common stock. Prior to January 1, 1930, these two companies manufactured all the radio apparatus sold by RCA.

The report stated that none of the increased B Preferred shares, authorized at the special meeting of stockholders in May, have been issued, and that there are no plans now for issuing any of this stock.

Total current assets at June 30th were \$79,393,338 and total current liabilities \$36,045,184, a ratio of 2.2 to 1. Cash and marketable securities amounted to \$31,837,073 while notes and accounts receivable were valued at \$15,780,104.

The inventories at June 30, 1930, amounted to \$31,776,160, and were valued at cost or market, whichever was lower. The regular quarterly dividends were paid on the "A" Preferred and "B" Preferred stocks.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

WALR, Roy W. Waller, Zanesville, Ohio, request for authority to voluntarily assign license to the Cleveland Radio Broadcasting Corporation; WHP, Pennsylvania Broadcasting Co., Lemoyne, Penn., C. P. to change equipment and increase power from 500 W. to 1 KW day and 500 watts night on 1430 kc.; WHBL, Press Publishing Co., Sheboygan, Wis., modification of license to change frequency from 1410 kc., to 620 kc., and operate 12 to 14 hours daily with 500 watts, station now uses 8 to 10 hrs. daily; also C. P. to install a new transmitter; WGN-WLIB, The Tribune Company, about 4 miles East of Elgin, Illinois, C. P. to install new equipment and increase power from 25 KW to 50 KW on 720 kc., with unlimited hours; WBBM-WJBT, Schermerville Road, Glenview, Illinois, C. P. to change equipment and increase power from 25 KW to 50 KW on 770 kc.

August 15 - WQDV, W. A. Blair & John R. Anderson, d/b as Blair and Anderson, Tupelo, Mississippi, license to cover C. P. issued 4/28/30 to erect a new station to use 1500 kc., 100 w., and unlimited hours; WISN, The Evening Wisconsin Co., Milwaukee, Wis., C. P. to move transmitter to Brookfield, Wis., and install new equipment; E. Dwight Craig, Indianapolis, Indiana, C. P. for new station amended to request 1500 kc. instead of 970 kc., with 50 watts power.

August 16 - KTNT, Norman G. Baker, Muscatine, Iowa, request for authority to install automatic frequency control; WOMT, Francis M. Kadow, Manitowoc, Wisconsin, license to cover C. P. issued 5/12/30 to make changes in equipment; WILM, Delaware Broadcasting Co., Inc., Wilmington, Delaware, C. P. to erect an emergency transmitter at 9th and Market Sts., to be used for 4 days only, during period when present transmitter is being moved; also, license to cover above construction permit for an emergency transmitter.

Applications Other Than Broadcasting

August 14 - KGT, Boeing Air Transport, Fresno, Calif., modification of aero. C. P. for extension of completion date to November 1, 1930; KTU, Boeing Air Transport, Airport, Redding, Calif., modification of Aero, C. P. for extension of completion date to 11/1/30; WGXAJ, Globe Wireless, Ltd., Los Angeles, Calif. (Portable), modification of experiment C. P. for extension of completion date to 3/30/31; WLO, American Telephone and Telegraph Co., Lawrenceville, N. J., modification of license requesting the use of transmitter #3 as well as #4 now authorized; KHILQ, William Stewart Brock, Airplane NR-496-M, assignment of license to the Crosley Radio Corporation.

Also, WAA, Radio Corporation of America, Ohio Co., Detour, Mich., modification of Coastal license for continuous hours of operation from 8 A. M. to 12 noon throughout season of Great Lakes navigation and such hours of day or night as may be necessary to efficient traffic movement; WLOXAL, National Broadcasting Company, Portable, renewal of license for 2392 kc., 50 watts, experimental relay broadcasting service; WLOXAO, National Broadcasting Co., Portable, renewal of experimental relay B/c license for 1584 kc., 50 watts; KMP, Boeing Air Transport, Inc., Omaha, Nebr., modification of Aero. C. P. for extension of time to 11/1/30; WPN, Globe Wireless Ltd., San Francisco, Calif., modification of C. P. for extension of completion date to 4/23/31.

Also, American Radio News Corp., Denver, Colo., new C.P. for 95 and 97 kc., 10 KW, multiple address radiotelegraph service; KHNEV, Robert B. Wark, Airplane NR-439, aircraft license on 8290 kc., 50 watts; KSM, Globe Wireless, Ltd., Los Angeles, Calif., modification of coastal C. P. for extension of completion date to 3/23/31; RCA Communications, Inc., Kahuku, T. H., new L. P. C. P. for 13705 kc., 80 KW; also new L. P. C. P. for 7520 kc., 80 KW; KQX, Boeing Air Transport, Bakersfield, Calif., modification of Aero. C. P. for extension of completion date to 11/1/30.

August 15 - Aeronautical Radio, Inc., Municipal Airport, Newark, N. J., new C. P. for Aero. Service on 5600 kc., day, 3484 kc., any time, 400 watts Phone and 1 KW Telegraph; Thompson Aeronautical Corp.; KHITG, Airplane NC-9794, KHAYB, Airplane NC-7770; KHIQJ, Airplane NC-5999, KHECX, Airplane NC-9157, modification of license requesting 3106 kc., and/or 5660 kc.; Libby McNeill & Libby; KMT, Libbyville, Alaska, and KMG, Ekuk, Alaska, KYZ, Kenai, Alaska, KML, Lockanok, Alaska, KVV, Koggiung, Alaska, KMF, Egegik, Alaska, KTQ, Moored Tally Scow, Alaska, KNO, Nushagak, Alaska, KVG, Taku, Alaska, modification of C. P. for extension of completion dates to 8/1/31.

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DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission granted the following applications:

WISJ, The Wisconsin State Journal Co., Madison, Wis., modification of C. P. to extend completion date of C. P. to October 1, 1930; KMOX-KFQA, The Voice of St. Louis, Inc., St. Louis, Mo., 30 day extension on program test; WEEI, Edison Electric Illuminating Co., of Boston, Boston, Mass., modification of license to move main studio locally; KFBB, Buttrey Broadcast, Inc., Great Falls, Mont., modification of license to move studio locally in Great Falls, Mont; KOL, Seattle Broadcasting Co., Seattle, Wash., modification of license to move main studio locally in Seattle; KFKB, KFKB Broadcasting Association, Inc., Milford, Kansas, approval of request for withdrawal of application for increase in power from 5 to 10 KW.

Also, WOBT, A. F. Tittsworth, tr. as Tittsworth Radio and Music Shop, Union City, Tenn., license to cover C.P. 1310 kc., 100 w. night, 250 w. LS on exp. basis, unlimited time; KFUM, W. D. Corley, Colorado Springs, Colo., license to cover C. P. 1270 kc., 1 KW, unlimited; WEAF, National Broadcasting Co., Inc., New York, N. Y., modification of C. P. to extend completion date to Nov. 27. 30; KTSL, G. A. Houseman, Shreveport, La., modification of license to move main studio locally in Shreveport; WTAD, Illinois Stock Medicine Broadcasting Corp., Quincy, Ill., C. P. to install new equipment including automatic frequency control; KDYL, Intermountain Broadcasting Corp., Salt Lake City, Utah, C. P. to install new equipment, including automatic frequency control; KRMD, Robert M. Dean, Shreveport, La., C. P. to move transmitter and studio from 504 Wall St. to 1445 Claiborne St., Shreveport, La.;

Also, WHN, Marcus Loew Booking Agency, Manhattan, N.Y., C. P. to make changes in equipment, increasing maximum power of equipment; WCBS, Charles H. Messter & Harold L. Dewing, Springfield, Illinois, modification of C. P. to extend completion date to 9/5/30; KOH, Jay Peters, Inc., Reno, Nevada, modification of C. P. to change equipment and increase its maximum power from 500 w. to 1 KW; KDFN, Donald Lewis Hathaway, Casper, Wyoming, C. P. to make changes in equipment; WDOD, Chattanooga Radio Co., Inc., Chattanooga, Tenn., consent to voluntary assignment of license to WDOD Broadcasting Corp.; WNBH, Irving Vermilya, tr. as New Bedford Broadcasting Co., New Bedford, Mass., license to cover C. P. 1310 kc., with 100 watts, unlimited hours of operation; WCBM, Baltimore Broadcasting Corp., Baltimore, Md., license to cover C. P. 1370 kc., 100 w. with an additional 150 watts from local sunrise to local sunset only, and unlimited hours of operation, the licensing of auxiliary equipment also approved.

Also, WCLO, WCLO Broadcasting Corp., Janesville, Wisc., license to cover C. P. 1200 kc., with power of 100 watts and unlimited hours of operation; WBNY, Baruchrome Corporation, New York, N. Y., C. P. to change modulator tube complement; KFPW, John Brown Schools, Ft. Smith, Arkansas, special authorization to broadcast until 10 o'clock on August 12th; Ned L. Reglein, Michigan City, Ind., approval of request to withdraw application for C. P., 1410 kc., 25 w. daytime

Commercial - W2XAO, RCA Communications, Inc., New Brunswick, N. J., renewal of license for a period of 90 days as follows: 6950, 6965, 7415, 8930, 9450, 9470, 9490, 13480, 13870, 13900, 14800, 14920, 16030, and 17860 kc., 80 KW power; W2XBJ, RCA Communications, Inc., Rocky Point, N. Y., renewal of license for 90 days as follows: 6740, 8950, 15040, 16000, 16030, 17900, 20100, 21300 kc., 80 KW; KTK, Globe Wireless, Ltd., Mussel Rock, Calif., C. P. for new transmitter as follows: Calling: 5525, 11050, 16580 and 22100 kc., - Working: 4116, 6515, 8630, 11020, 16900 and 22160 kc., 500 watts power, A1 and A2 emission; KGR, Globe Wireless, Ltd., Edmonds, Wash., license to cover C. P. 7430, 7437, 5, 7445, 9410, 10930, 14860, 14875, 14890, 18820, 22660 kc., 500 watts power, A1 and A2 emission, to communicate

with all other land stations owned and/or operated by Globe Wireless, Ltd., which are licensed for public point-to-point service.

Also, W2XBZ, RCA. Communications, Inc., New Brunswick, N. J., license to cover C. P. 4795, 6425, 8650, 12850, 17300, 25700, 34600, 51400 kc., and 60000 to 400000 kc., 80 KW; W2XBL, RCA Communications, Inc., Rocky Point, N. Y., license to cover C.P. 6000 to 400000 kc., and above 401000 kc., power 1 watt; W9XAY, National Battery Broadcasting Co., portable in Minnesota, license 2392 kc., power 7.5 watts for a period of 15 days to cover Open Tournament at Keller Golf Course in St. Paul; KGRM, John Cardosa, San Diego, Calif., license 8290 kc., 50 watts, on temporary basis pending formal application.

Denied

WTMJ, The Journal Co., Milwaukee, Wisc., denied permission to intervene in hearing to be held on applications for renewal of licenses of WCOA, WLBZ and WDAE.

Set For Hearing

WCLS, WCLS, Inc., Joliet, Ill., application for C. P. to make changes in equipment and install automatic frequency control; WOAX, Franklyn J. Wolff, Trenton, N. J., application for C. P. to make changes in equipment; also application for C. p. to move transmitter and studio from Trenton, N. J. to Merchantville, N. J.; WTMJ, The Journal Co., (The Milwaukee Journal), Milwaukee, Wisc., application for C. P. to move transmitter from RFD #6, Brookfield, Wisc., to location not yet determined, install new equipment, change frequency from 620 kc., to 870 kc., and increase power from 2½ KW day and 1 KW night to 50 KW; WGN-WLIB, The Tribune Co., Chicago, Ill., application for C. P. to install new equipment and increase power from 25 to 50 KW.

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KFAB NAMED IN SLANDER SUIT

Two suits for slander have been filed against the KFAB Broadcasting Company, of Lincoln, Nebr., by Attorney General C. A. Sorensen and Assistant Attorney General Irvin Stalmaster. Each asks \$100,000 damages. Both suits also named Richard F. Wood, who is alleged to have slandered the plaintiffs in an address over the station.

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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

AUG 22 1930

PRESS RELATIONS DEPARTMENT
G. W. JOHNSTONE

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No. 362

LEGAL QUESTION RAISED BY "PSYCHOLOGIST"

An interesting question in radio law was raised by the brief appearance and hurried departure of one Gayle Norman, self-styled "professor of psychology", who for a month answered questions at \$1 each over Station WOL, Washington. He left town two days before his contract expired when the Washington Post revealed that the fraud squad of the Police Department and the Legal Division of the Federal Radio Commission were investigating his program.

Norman had been going on the air twice daily for 15 minute periods and giving what he termed "psychological guesses" on a variety of questions, many of which dealt with the future.

While District of Columbia authorities planned to prosecute him on the grounds of telling fortunes without a license, the Radio Commission let it be known that they thought he might be violating two phases of the radio law: that he was transmitting messages from person to person and that he was soliciting money for personal gain.

LeRoy Mark, owner of the station, contended that Norman was answering questions for the entertainment of the whole radio audience and was not speaking specifically to the inquirer. He said a Radio Supervisor upheld him in this view and that numerous stations throughout the country were engaging similar entertainers.

Norman left the city, however, before the question was settled, and it is not expected that the Radio Commission's Legal Division will conduct the investigation further at this time.

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TRIBUNE STATION SEEKS 50,000 WATTS

The Chicago Tribune Company has applied to the Federal Radio Commission for permission to install a 50,000 watt transmitter at Station WGN. The application has been filed for hearing along with the others on September 15th or after.

Extensive investigations conducted by The Tribune and attested in the vast mail received from listeners, indicate, according to the Chicago paper, that WGN has the largest service area of any station in the Fourth Zone, comprising Indiana, Illinois, Wisconsin, Missouri, Iowa, Minnesota, Nebraska, and the Dakotas. By service area is meant the area in which interference-free reception is had.

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HOOPER URGES SHORT WAVE S O S

Capt. S. C. Hooper, Director of Naval Communications, believes a short wave distress signal should be adopted to supplement the present S O S call so that vessels in remote waters might be able to get in touch with shore radio stations at all times.

The international distress channel of 500 kilocycles, is not ideally adapted for use by ships in remote waters, Capt. Hooper said, particularly in the daytime. While at night, it has a maximum coverage of about 2,000 miles, during the day it reaches only from 100 to 200 miles.

There are areas in the Pacific Ocean, he declared, where the S O S signal cannot be heard during the day because of the variable conditions governing the transmission of radio messages. The only chance that a vessel in distress in such a place may be heard, he said, is that another ship is in the vicinity and can relay the message.

More and more vessels are installing high frequency apparatus, Capt. Hooper declared. The Navy has been experimenting successfully in this field for some time. Adoption of the proposal to designate a short wave for an international S O S call would also be more economical, he contends, as fewer radio operator-watches would have to be maintained than under the present system.

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HISTORY MOST POPULAR SCHOOL FEATURE

History has been voted the most popular feature of the American School of the Air by children in 25 States, according to information just released by Miss Florence C. Fox, specialist in elementary education at the Office of Education. The pupils even prefer it to music; in fact, the only music most of them like is that provided by a good lusty band.

Questionnaires were sent to pupils of the sixth, seventh, and eighth grades. Teachers were also asked their opinions of some of the programs, and many of them responded that often the selections were too mature for the children's understanding.

Dramatization overwhelmingly led the list in the matter of presentation, and story telling came second. The lecture method was opposed by 75 per cent of the pupils and the interview by 59 per cent.

All agreed that the broadcasts in most instances livened up the school work considerably and made study after a pleasure rather than a drudgery.

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LAFOUNT RAPS REGIONAL "WASTE"

Federal Radio Commissioner Harold A. Lafount, who has frequently expressed dissatisfaction with the congestion of radio stations in this country, returned from a month's tour of the Middle West August 18th more firmly convinced than ever that some "weeding out" is necessary, particularly among the regional channels.

After visiting 30 cities in 11 States and inspecting 28 broadcasting stations, Mr. Lafount declared that there is a "real waste" on the regional channels, upon which the bulk of stations now operate. He found that the low powered, or local, stations are doing "reasonably well" and that the high powered stations on cleared channels are performing "the real service."

While on his tour, the Commissioner conferred with listeners as well as broadcasters so as better to ascertain actual conditions. He also met numerous radio dealers. He was entertained by Chambers of Commerce and luncheon clubs.

At Grand Island, Nebr., Mr. Lafount inspected the new radio "police station", which will begin operation early this Fall. He discussed plans whereby daily reports will be transmitted from the station to the Radio Commission for prompt action.

Radio conditions on the whole in the Middle West are improving, the Commissioner found, and listeners appear well satisfied with the variety of programs they receive.

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CZECHOSLOVAKIA AS RADIO MART

Following is a review of Czechoslovakia as a market for radio sets as made by Commercial Attache K. L. Rankin, of Prague, to the Department of Commerce:

"It is estimated that out of the 282,000 registered radio sets in operation in Czechoslovakia as of March 1, 1930, 60 per cent were crystal sets and 40 per cent tube sets, about 10 per cent of the latter being operated on domestic lighting current. Thirty per cent of all types of sets are homemade by amateurs, and complete unassembled sets are purchased only to a very small extent, since it is usually cheaper to buy assembled sets. Owing to high prices the number of cabinet models in operation is very small.

"Sets operated by electric lighting current are becoming more and more popular, while the market possibilities for battery sets are less encouraging owing to the expense and inconvenience connected with changing batteries, particularly in rural districts. On the basis of the 1921 census, it is estimated that there are now 3,200,000 families in Czechoslovakia, almost 50 per cent of whom are users of electric current for lighting.

"Radio sets of the German Telefunken company and the netherland firm Philips dominate the Czechoslovak market, the former having been established there for a long time, while the latter has been gaining considerable ground in the past two years owing to extensive advertising.

"The present price range of the most popular sets is from 760 to 5,350 crowns for battery-operated sets, and from 2,010 to 7,550 crowns for electric sets (one Czechoslovak crown equals \$0.02964). Crystal sets are sold from \$6 upward. The demand for radio sets of five and more tubes is rather limited, owing to their greater cost. For the same reason American sets are not in general use, although they are in favor for their quality. Exports of radio apparatus from the United States to Czechoslovakia during 1929 amounted to \$32,420, of which \$10,671 was for complete receiving sets. Tubes for use in American sets are kept in stock by all larger dealers in radio supplies.

"The German Telefunken Company has an assembling plant in Czechoslovakia and the Netherland company maintains a branch office in Prague.

"Radio broadcasting is controlled by the Czechoslovak National Government, no field being left for private enterprise, and six stations are now in operation. The seventh and most powerful one is being constructed at Cesky Brod and is expected to permit practically every one in the republic to listen in on a crystal set. Furthermore, the location of Czechoslovakia in the center of Europe makes it possible to listen in to programs broadcast from various European centers, although the differences in wave lengths assigned to individual countries cause very frequency interference."

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DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission granted the following applications on August 19th:

WELK, Howard R. Miller, Philadelphia, Pa., consent to voluntary assignment of license to WELK Broadcasting Station, Inc.; KGCI, Radio Sam Broadcast Co., Inc., San Antonio, Tex., consent to voluntarily assign license to W. W. McAllister; KGCI, W. W. McAllister, San Antonio, Texas, C. P. to move studio and transmitter locally in San Antonio, and install new equipment; WCAD, St. Lawrence University, Canton, N. Y., authority to suspend operation for a period of 2 weeks from August 19th, in order for operator to take renewal examination and prepare for Fall broadcasting schedule; KFGI, Eagle Broadcasting Co., Inc., Corpus Christi, Texas, modification of C. P. to extend completion date to 8/17/30; WSBC, World Battery Co., Inc., Chicago, Ill., license to operate on 1210 kc., 100 watts, sharing with WEDC, and WCRW; KDKA, Westinghouse Electric and Manufacturing Co., Pittsburgh, Pa., license covering C. P.,

authorizing removal of transmitter from Pittsburgh to Saxonburg, and install new equipment; also special authorization to operate in synchronism with new transmitter installed at Saxonburg and old transmitter at Pittsburgh, for the purpose of permitting the gradual decrease of power in Pittsburgh and increase power in Saxonburg; Fokker Aircraft Corp. of America, Plane ATC 281, license on 3106 kc., 50 watts, unlimited time, to be used for messages relating to safety of life and property, not general public message traffic.

Also, W10XAL, National Broadcasting Co., Inc., Portable, renewal of license 2392 kc., 50 watts; W10XAO, National Broadcasting Co., Inc., Portable, renewal of license 1584 kc., 50 watts, unlimited time between August 13th and 27th and between Sept. 10th and 25th incl.; Alaska Washington Airways, Inc., Airplane NC-974-H, license 3106 kc., 150 watts, unlimited time; Tropical Radio Telg. Co., Hialeah, Fla., C. P. for additional transmitter, 1604, 2398, 3256, 4795, 6425, 8650, 12850, and 17300 kc., 350 watts; U. S.-Liberia Radio Corp., Akron Ohio, C. P. for high frequency equipment 19780 kc., 750 watts, Al emission, 12 hrs. daily, covering alternate one hour intervals in accordance with agreement between licensee and Southern Radio Corp; City of El Paso, Police Dept., El Paso, Texas, C. P. 1712 kc., 100 watts, full time 7 days a week; Radio Corporation of America, Ohio Co., NC-7120, license, 3106, 5660 kc., red chain frequencies 10 watts and 100 watts.

Also, KGE, Boeing Air Transport, Inc., Medford, Ore., consent to voluntary assignment of license to Aeronautical Radio, Inc.; KJM, Phillips Petroleum Co., Bartlesville, Okla., C. P. to move transmitter from 4th and Johnstone Sts., to near Bartlesville, Okla., 168.9 kc, 5 KW; W6XV, Federal Telegraph Co., Palo Alto, Cal., renewal of license 99, 150, 375, 500 kc., 10 KW, for period of 90 days; WCC, Radiomarine Corp. of America, Marion, Mass., license to cover C. P. for high frequency transmitter, calling 5525, 11050, 16580, 22100 kc., working 6455, 6470, 8430, 12580, 12640, 16740 kc., 350 watts; WRDU, City of New York Fire Dept., Brooklyn, N. Y., modification of C. P. to extend completion date to 8/29/30.

Application Denied

The Journal Company, Milwaukee, Wis., asked permission to intervene in matter of application for renewal of station license for station WFLA-WSUN, Clearwater, Florida. These stations operate on same frequency 620 kc.

Set For Hearing

KFRC, Don Lee, Inc., San Francisco, Cal., asks for C.P. to install new equipment and increase power from 1 KW to 50 KW; to move transmitter to site to be determined by Commission, and to

use portable to test for location; WBBS, Boston Broadcasting Co., Boston, Mass., asks for renewal of license; KDC, Globe Wireless, Ltd., Island of Guam, asks for C. P. for additional transmitter 3304, 4595, 5245, 5870, 7595, 8195, 15100, 18300, 19380, 20940 kc., 10 KW; KGQ, Globe Wireless, Ltd., Musselrock, Cal., asks for C.P. for additional transmitter, 3268, 3316, 4715, 5325, 6890, 7625, 9670, 15580, 18500, 19900, 21020 kc., 10 KW; KGR, Same Co., Edmonds, Wash., asks for C. P. to install additional high frequency apparatus, 3286, 4284, 5525, 5356, 7310, 7850, 13600, 17820, 19140, 20460 kc., 10 KW;

Applications Dismissed

The following applications were heretofore designated for hearing. The applicants have indicated a desire to have their respective cases dropped from further consideration:

KLS, Warner Brothers, Oakland, Cal., asked for modification of license 930 kc., 25 watts, to divide with KFWI; WEMC, George W. Trendle, Detroit, Mich., asked for C. P. to move station, install new equipment for unlimited hours of operation, frequency 590 kc., 1 KW power; Albert J. McMahan, Ely, Minn., asked for C.P. to erect new station on 1500 kc., 100 watts; Albert Chada, Denmark, Wis., asked for C. P. for new station on 1390 kc., 50 watts; Garrett W. Lewis, National Radio Tube Co., San Francisco, Cal., asked for C. P. for new station, experimental frequency 3500 to 4000 kc., 1000 watts; Warner Brothers Broadcasting Corp., Hollywood, Cal., asked for C. P. for experimental station, frequency 6030, 750 watts and also for renewal of license.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

WJSV, The Independent Publishing Co., Mount Vernon Hills, Va., modification of C. P. to extend completion date on C. P. to 12/10/30; WMBC, Michigan Broadcasting Co., Detroit, Mich., C. P. to make changes in equipment and increase power from 250 W. day and 100 W. night to 250 watts unlimited time on 1430 kc.; WRBI, Chas. A. Kent & Milton U. Kent, d/b as Kent's Furniture & Music Store, Tifton, Ga., request for authority to voluntarily assign license to the WRBI Broadcasting Co., Inc.; WRBT, Wilmington Radio Association, Inc., Wilmington, N. C., C. P. to move transmitter to Princess St. Road, Wilmington, move studio to same, install a new transmitter, change frequency from 1370 kc., to 1320 kc., and increase power from 100 watts to 1 KW, unlimited; WEBC, Head of the Lakes Broadcasting Co., Superior, Wis., modification of license to use the old equipment as an auxiliary transmitter to be operated in cases of emergency with 1 KW; Ozark Radio Corp. Cartersville, Mo., C. P. to erect new station to use 1500 kc., 100 W. day hours and 1 evening hour; Clifford C. Sawyer, Elkhart, Kans., C. P. to erect a new station to use 1370 kc., 20 watts and unlimited time.

August 19 - WEMC, Emmanuel Missionary College, Berrien Springs, Mich., request for authority to voluntarily assign license to WKZO, Inc.; Detroit Broadcasting Co., Wayne Co., Mich., C. P. to erect a new station to use 1200 kc., 100 w., and unlimited hours; WNRC, Wayne M. Nelson, Greensboro, N. C., request for authority to voluntarily assign license to the North Carolina Broadcasting Co., Inc.; KGFK, R. W. Lautzenheiser & O. R. Mitchell, d/b as Lautzenheiser & Mitchell, Moorhead, Minn., request for authority to voluntarily assign license to the Red River Broadcasting Co., Inc.; Pioneer Mercantile Company, Bakersfield, Cal., C. P. for a new station to use 1380 kc., 1 KW, and unlimited hours; this application supersedes application previous filed in May.

August 20 - WEVD, Debs Memorial Radio Fund, Inc., Forest Hills, N. Y., C. P. to make changes in equipment; L. D. Claborne, Corinth, Miss., amendment filed to C. P. for new station to request authority to locate transmitter at Corinth, Miss., instead of Tupelo; KTUE, William John Uhalt, Houston, Texas, C.P. to move transmitter locally and install a new transmitter; WREC, WREC, Inc., Whitehaven, Tenn., C. P. to move transmitter from Tennessee to West Memphis, Arkansas, install a new transmitter, change frequency from 600 kc., to 620 kc., and increase power from 1 KW day and 500 watts night to 50 KW; WISJ, Wisconsin State Journal Broadcasting Co., Beloit, Wis., (C.P. for near Madison); Modification of C. P. to change frequency from 560 kc., to 780 kc., change power from 500 watts to 500 W. day and 250 W. night, and hours from sharing with WIBO and WPCC to unlimited on 780 kc.; WKBH Jos. Callaway, trading as Callaway Music Co., R.F.D. #1, LaCrosse, Wisconsin, license to cover C. P. issued 5/20/30 to install a new transmitter.

Applications Other Than Broadcasting

August 18 - KNW, Palo Alto, Calif., and KNN, near Honolulu, Oahu, Island, Mackay Radio & Telegraph Co., renewal of LP license for the 52 Mackay frequencies, 5 KW; WMJ, City of Buffalo (Police), Buffalo, N. Y., modification of LC C.P. for extension of completion date to 11/1/30; WAA, Radio Corp. of America, Ohio Co., Detour, Mich., modification of LP-Marine Relay license for time of operation: continuous 8 A.M. to 12 noon throughout season of Great Lakes Navigation and such hours of day or night as may be necessary to efficient traffic movement.

August 19 - W3XAK, National Broadcasting Co., Portable, Bound Brook, N. J., renewal of experimental television license for 2000 to 2100 kc., 5 KW; KGUG, Aeronautical Radio Inc., Big Spring, Texas, new aeronautical C. P. for 3484-5600 kc., maximum power 250 watts; Aeronautical Radio, Inc., Orland Township, Ill., new aeronautical C. P. for 3238 kc., 400 watts; City of Portland, Oregon, Bureau of Police, Portland, Oregon, Portables, licenses (2) covering C.P.s for experimental service on 2452 kc., maximum power 25 watts.

August 20, 1930 - Federal State Marketing Service:
KRJ, Sacramento, Calif., renewal of limited commercial license for 3250, 4244, 5365, 8810, 10010 kc., 500 watts; KRB, Salinas, Calif., renewal of limited commercial license for 3250, 4244, 5365, 8810, 10010 kc., 100 watts; KRM, Los Angeles, Calif., renewal of limited commercial license for 3250, 4244, 5365, 8810, 10010 kc., 100 watts; also C. P. for limited commercial service on 3250, 4244, 5365, 8810, 10010 kc., 100 watts, for an additional transmitter at station KRM; KRN, Brawley, Calif., renewal of limited commercial license for 3250, 4244, 5365, 8810, 10010 kc., 100 watts; KRG, San Francisco, Calif., renewal of limited commercial license for 3250, 4244, 5365, 8810, 10010 kc., 500 watts; also C. P. for additional transmitter at station KRG, for limited commercial service on 3250 4244, 5365, 8810, 10010 kc., 500 watts; WLXA, Edward C. Crossett, Wianno, Mass., renewal of experimental license for 8650, 12850, 28200 kc., 500 watts; Aeronautical Radio, Inc., Municipal Airport, Boston, Mass., new C. P. for aeronautical service on 5600 day, 3484 kc., anytime, 400 watts for phone and 1 KW for telegraph; WAG, Mackay Radio & Telegraph Co., Inc., near Rockland, Maine, coastal license covering C.P. for 143, 500 calling, 121, 418 kc., working, 5 KW.

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CENSUS TO CHANGE STATE QUOTAS

A survey of the preliminary census figures by the Engineering Division of the Radio Commission shows that there will be a general revision in the broadcasting facility quotas of virtually all States as a result of the changes in population figures.

In the case of the three most over-quota States - Illinois, New York and California - under the previous unit measurement, the census figures cuts this surplus considerably by revealing gains in population.

California, which was rated at 7.19 units above its quota, under the new census count would be reduced to a surplus of 2.68 units.

New York's over-quota is reduced from 4.32 units to 3.49 units, while Illinois' surplus falls from 10.72 to 10.28 units.

On the other hand, Pennsylvania, which was listed as the most under-quota State, loses under the new census count, its population having fallen from 9,854,000 to 9,640,000 since 1928. Its minus units are consequently cut from 8.86 to 8.47.

The Commission has not yet adopted the census figures as official; consequently there will not likely be any immediate reallocations.

On the whole the changes are slight, however, and would cause no general shakeup if put into effect.

The Commission's analysis of the changes for each State and Zone on the basis of the unit measurement follows:

	<u>First Zone</u>	
	<u>1928</u>	<u>1930</u>
Connecticut	-1.25	-0.84
Delaware	-0.01	+0.036
District of Columbia	-0.23	-0.04
Maine	-0.33	-0.22
Maryland	-0.93	-0.76
Massachusetts	-2.31	-1.60
New Hampshire	-1.14	-1.11
New Jersey	+0.27	+0.23
New York	+4.82	+3.49
Rhode Island	-0.70	-0.51
Vermont	-0.73	-0.70
Porto Rico	-3.20	-3.72
Virgin Islands	-0.07	-0.064
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Total	-5.81	-5.81

	<u>Second Zone</u>	
Kentucky	+0.36	+0.08
Michigan	-2.16	-2.98
Ohio	-0.87	-0.50
Pennsylvania	-8.86	-8.47
Virginia	+2.17	+2.56
West Virginia	-1.30	-1.35
	<hr/>	<hr/>
Total	-10.66	-10.66

	<u>Third Zone</u>	
Alabama	-2.83	-2.89
Arkansas	-1.24	- .87
Florida	+4.33	+4.26
Georgia	-1.52	- .48
Louisiana	+2.95	+2.67
Mississippi	-2.50	-3.00
North Carolina	- .55	-1.02
Oklahoma	+1.14	+1.38
South Carolina	-3.41	-2.92
Tennessee	+5.77	+5.61
Texas	+7.05	+6.45
	<hr/>	<hr/>
Total	+9.19	+9.19

Fourth Zone

	<u>1928</u>	<u>1930</u>
Illinois	+10.72	+10.28
Indiana	-3.42	-3.47
Iowa	+5.37	+5.32
Kansas	-0.67	-0.73
Minnesota	+0.88	+1.43
Missouri	+1.38	+1.18
Nebraska	+1.62	+1.75
North Dakota	+0.38	+0.29
South Dakota	+1.31	+1.37
Wisconsin	-1.49	-1.34
Total	+16.08	+16.08

Fifth Zone

Arizona	-0.77	-0.23
California	+7.19	+2.68
Colorado	+1.88	+2.88
Idaho	-1.63	-0.64
Montana	-1.0	-0.57
Nevada	+0.25	+0.20
New Mexico	-0.44	-0.40
Oregon	+2.00	+2.22
Utah	+2.83	+3.33
Washington	+4.65	+5.76
Wyoming	-1.55	-1.26
Alaska	+0.61	+0.62
Hawaii	-0.22	-0.79
Total	+13.80	+13.80

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HEINL RADIO BUSINESS LETTER

RECEIVED

AUG 26 1930

INSURANCE BUILDING

WASHINGTON, D. C.

F. A. ARNOLD

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. 363

NETWORK FORMED IN TEXAS

A new radio network, linking seven broadcasting stations in Texas and designed to serve the entire Southwest, has been formed, according to advices received by the Federal Radio Commission. The network will have its formal opening on September 24th.

The new chain bears the name of the Southern Broadcasting Company and has four basic stations and three associated stations, according to J. M. Gilliam, General Manager. It is claimed that the network will cover, summer and winter, 90 per cent of the nearly 6,000,000 population of Texas, a large portion of eastern New Mexico, southern Oklahoma, southwestern Louisiana, and Arkansas.

The basic stations are KTAT, at Fort Worth, which operates on the 1240 kilocycle channel with 1,000 watts; KGKO, Wichita Falls, with 250 watts at night and 500 watts during the day, on 570 kilocycles; WACO, Waco, with 1,000 watts, dividing time with KTAT; KTSA, San Antonio, with 1,000 watts at night and 2,000 watts during the day, on the 1290 kilocycle channel.

Associated stations are KTRH, of Houston, on 1120 kilocycles with 500 watts at night and 1,000 watts in the daytime; WRR, Dallas, 500 watts on 1280 kilocycles; and KGRS, Amarillo, 1,000 watts on 1410 kilocycles.

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CHICAGO TO HAVE TALKING RADIO MOVIES

The Chicago Daily News through its Stations WMAQ and W9XAP, its new television unit, will begin broadcasting talking radio movies on a regular basis on August 27th. The newspaper on August 22nd filed with the Federal Radio Commission an application for a license for the new visual broadcasting station.

Three schedules a day will be maintained, according to William S. Hedges, manager of the station. Within a few months, it is planned to broadcast a daily news reel via television.

The combined stations will cover the entire metropolitan area of Chicago and a radius of 50 miles of surrounding territory, it is estimated.

The "Sawabria System", of television, which portrays full-length images, has been installed at W9XAP. Photo cells, or "electric eyes", 18 inches in diameter, are employed and are capable of picking up for transmission three characters at the same time, using a 45-hole, 3-spiral disc.

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I. T. & T. GETS BRAZILIAN RIGHTS

The Official Gazette of the Brazilian Government has published the decree granting the right to the Companhia Radio Internacional do Brasil, an associated company of the International Telephone and Telegraph Corporation, to construct radio stations and carry on international radio telegraph and radio telephone service from Brazil. The concession is granted for a period of ten years and is renewable.

It is planned to install radio telephone and telegraph stations as soon as possible and to make connections with the United States, Europe and other South American countries. Associate companies of the International Telephone and Telegraph Corporation operate the radio telephone circuits from Buenos Aires, Argentina to the United States and Europe and are planning to install international radio telephone in other South American countries.

In the field of radio telegraph the Mackay Radio station at Sayville will connect with the various I. T. & T. associated radio stations in Brazil, Argentine and Columbia, in addition to the service already in operation with Peru.

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QUARTER RADIO SALES FALL

Sales of radio equipment totalling \$87,000,000 were transacted by retail dealers during the second quarter of 1930, compared with \$92,000,000 during the corresponding year of 1929, according to an estimate by Marshall T. Jones, Electrical Equipment Division, Department of Commerce, based on information received from 6,535 dealers, applied to the total number queried.

Dealers supplying this information to the Department represented a cross-section of the trade with individual sales volume being reported in varying amounts. The average business per dealer was stated by the Department to be \$2,015 compared with \$2,350 for the second quarter of last year.

Total sales of radio equipment for the first three months of the current year were previously announced as \$144,000,000, making the total for the half-year \$231,000,000 compared with \$224,000,000 for the corresponding six months of 1929.

If average sales, allowing for seasonal variations, are maintained during the year, Mr. Jones estimates that the total turnover by all dealers for the 12 months will approximate \$645,000,000.

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The Federal Radio Commission has decided to adopt the preliminary census figures as a basis for distribution of broadcasting facilities until the official statistics are announced. The changes that these figures will cause in the various State quotas were tabulated in last Thursday's Business Letter.

National Radio Week is to be observed throughout the week of September 22-28 by the radio industry.

The four broadcasts of the Philadelphia Orchestra, which are being sponsored by the Philadelphia Storage Battery Co., makers of Philco radios, will be broadcast over NBC stations, beginning October 12th. The Philco Symphony Orchestra will continue to be heard over the Columbia System.

Arthur Moss, of Electrad, Inc., New York, has been appointed Chairman of the Radio Manufacturers' Association newly formed Foreign Trade Committee, which has been organized to develop export trade in radio products. Other members are: J. M. Regottaz, RCA-Victor Co.; Charles T. Lawson, General Motors Radio Corp.; S. J. Spector, Insuline Corp., of America; K. Nielsen, Belden Manufacturing Co.; W. J. Barkley, DeForest Radio Co.; J. Howard Haley, Colin B. Kennedy Corp.; and C. J. Hopkins, Crosley Radio Corporation.

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RADIOBEACONS AID SHIPS AT BOSTON

Entrance of steamers into Boston harbor is now facilitated, especially in foggy weather, through an improvement in the operating schedule of two of the radio beacons guarding Massachusetts Bay, according to the Lighthouse Service of the Department of Commerce.

At Cape Cod Lighthouse and at Boston Lightship, there are automatic radio broadcasting sets to send out a special signal from which navigators may take their exact bearings. These two stations have been synchronized so that first one station and then the other sends for a period of a minute. In clear weather they operate the last 15 minutes of each hour, in fog they broadcast continuously.

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COMMISSION RAPS STATION WTMJ

Station WTMJ, operated by the Milwaukee (Wis.) Journal, is criticized for its "unwillingness to settle its problems before the Radio Commission and for its "lack of cooperation", by the Commission in a brief filed August 23rd in the Court of Appeals of the District of Columbia.

The station now has four separate appeals pending in the court, it is pointed out by the Commission with the filing of two statements of facts and reasons for decisions.

The appeals were from actions of the Commission in renewing the licenses of Stations WFLA-WSUN, at Clearwater, Fla., and WLBZ, at Bangor, Me., to operate on the 620 kilocycle channel. WTMJ is assigned to this same channel with 1,000 watts night and 2,500 day power, and contends that the operation of the other stations causes interference with reception from the Milwaukee station. In both instances it sought to have the renewal applications set for hearing at which time it asked to be permitted to offer testimony in opposition to the renewals.

The Commission previously had filed with the Court motions to dismiss both of these appeals.

No undue interference is caused by the operations of these two stations on the 620 kilocycle channel, the Commission contends. It points out, however, that it was not expected that heterodyne interference would be entirely eliminated because the stations operate on a regional channel. Only the 40 cleared channels are designed to be free from such interference, it states.

Besides these two appeals, the Journal station has noted appeals from actions of the Commission in permitting operation of WLBZ on the 620 kilocycle channel, as well as in assigning Station WJAY, at Cleveland, to the same channel, and in changing the Florida stations assigned to it. Another appeal pending is that from the Commission's denial of WTMJ's application for an increase in power to 50,000 watts.

The Commission recently denied four petitions for intervention filed by WTMJ on renewal applications of the four stations operating on the 620 kilocycle channel.

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R. M. A. PLANS PATENT BUREAU

The Radio Manufacturers' Association is preparing to establish a central Patent Bureau for the radio industry to collect and disseminate complete information on radio patents. The plan was adopted at a recent meeting of the Directors at Niagara Falls, Ontario. The new patent department will be in the New York offices of R.M.A. and will be in the charge of a competent radio patent attorney.

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UNIQUE PROGRAMS TEST SET

The Westinghouse Electric & Manufacturing Co., employed a novel test to demonstrate the tone quality of its new Westinghouse radio received the night of August 26th. Through a NBC hookup of 35 stations with KDKA, a program was broadcast over the country to compare orchestral and vocal selections as they came from the loud-speaker of a radio set with the original outpourings of the artists.

In one studio music was carried directly by the microphone, while in another studio a Westinghouse radio set picked up the same program and rebroadcast it through another microphone.

As the program was shifted back and forth between the two, the audience was asked to try to detect which was the original and which the relayed program.

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DEFOREST SEES MENACE IN RADIO ADS

Following are excerpts of an address by Dr. Lee DeForest, President of the Institute of Radio Engineers, made at the recent convention at Toronto, Ontario as reported to Editor and Publisher:

"Radio's debt to the newspaper for daily program notices, program reviews, and for the generous radio sections is beyond all computation", Dr. DeForest said. "Unquestionably it was this astonishing interest on the part of the press in broadcasting during its early struggling days ten years ago which alone enabled it to survive those crucial years until an awakened popular interest made radio self-supporting. I sincerely feel therefore that the debt today lies heavily on radio's side of the ledger."

Dr. DeForest poured a scalding attack upon blatant advertisers whose "short-sighted avarice is at work to curtail the usefulness and beneficence of radio", as he put it.

"It is a menace steadily growing greater, more ruthless and deserving of suspicion, more generally detested," Dr. DeForest said. "Unless this evil is cured, radio in the United States and Canada is heading straight for government regulation, with its consequent taxation and possibility of censorship."

Abuse of radio advertising would without a doubt result in lessened hours of listening and possibly in lessened sale of sets, he emphasized.

"Unless this evil is voluntarily cured (and without earnest organized protest it won't be cured), we are headed straight for government regulation, and all the evils and all the benefits of government control", he declared. "Already certain States are

framing radio taxation measures. Canada, our host, has followed her mother country, and now levies a tax on each radio receiver."

The present deplorable conditions will rapidly hasten the entry of wired radio to homes, entertainment freed from static and purged of advertisers, he assured the convention.

Although radio has largely eliminated the extras on prize-fight results and is responsible for the curtailment of interest in baseball news, it will never supersede the newspaper, in the opinion of Dr. DeForest. Radio has the limitation that it must present its program when the broadcasters choose, he pointed out. On the other hand, people can read a newspaper at their leisure when and where they wish.

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RADIO SALES GAIN IN GERMANY

Sales of radio apparatus in Germany during 1929 showed a large increase, according to figures published in the annual report of the Association of the German Radio Industry, a report to the Department of Commerce from Trade Commissioner James E. Wallis, Jr., at Berlin, reveals. Careful estimates have placed the total turnover in German manufactured receiving sets, accessories and parts at 140,000,000 Reichsmarks during 1929, an increase of 55 per cent over the previous year (the value of the Reichsmark is 23.8 cents).

It is understood that the total amount of material manufactured in 1929 was somewhat less than in previous years, but this can be accounted for by the headway made in the use of more expensive light socket equipment. It is stated that during 1929 the production of receiving sets and amplifiers for operation from light sockets accounted for roughly 50 per cent of the total production of the German radio industry. Sales of the cheaper battery operated sets showed a marked decline. The production of loudspeakers showed a large gain during 1929, and sales are reported as being 20 per cent higher than in the previous year.

Further expansion was noted in the export of radio apparatus during 1929, approximately 20 per cent of the total production of receiving sets and loudspeakers being shipped abroad. Fifty per cent of total German production of radio accessories and parts were exported, the corresponding figure for loudspeakers being 30 per cent.

There is a steadily increasing tendency toward concentration in the German radio equipment industry, the greater part of the total production being accounted for by a smaller number of firms each year, Mr. Wallis stated.

The license agreements of the various manufacturers in Germany with the Telefunken Company, which were to have expired on March 31, 1930, have been renewed with no essential changes until August 31, 1934.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

August 21 - WILM, Delaware Broadcasting Co., Inc., Wilmington, Del., license to cover C. P. issued 7/18/30 to move transmitter to Edge Moor, Del.; WCBS, Charles H. Messter & Harold L. Dewing, Springfield, Illinois, modification of C. P. to change equipment from low level modulation to high level modulation on new equipment authorized by C. P. issued 4/19/30.

August 22 - WFBL, The Onondaga Radio Broadcasting Corp., Syracuse, N. Y., modification of C. P. to change transmitter location on C. P. from near Minoa to near Collamer, N. Y.; WDRC, The Doolittle Radio Corp., New Haven, Conn., C. P. to move studio and transmitter to between Hartford and Springfield, Conn.; WJAC, Johnstown Automobile Co., Johnstown, Penna., modification of C. P. to extend completion date on C. P. to 10/1/30; WIOD-WBBF, Isle of Dreams Broadcasting Corp., Miami Beach, Florida, amendment filed to application for C. P. to request the following power: day - $2\frac{1}{2}$ KW, night - 500 W., with an additional 500 W. experimentally, former power requested was $2\frac{1}{2}$ KW, unlimited time; also C. P. to move transmitter and studio locally in Miami; - John R. Sylvester, Derry, Penna., amendment filed to application for new station to request 1500 kc., instead of 1420 kc., with 100 W.; Martin C. Newman, Sturgis, Mich., amendment filed to application for new station to request 950 kc., instead of 1310 kc., with 100 w.

August 23 - KIDO, Frank L. Hill & C. G. Phillips, d/b as Boise Broadcast Station, Boise, Idaho, modification of C. P. to change equipment on C. P. and operate unlimited hours, station is licensed to operate full time temporarily until another station is assigned to 1250 kc.; KOH, Jay Peters, Inc., Reno, Nevada, modification of C. P. to change transmitter and studio location on C. P. locally in Reno; KWJJ, KWJJ Broadcast Co., Inc., Portland, Oregon, license to cover C. P. issued 5/12/30 to change equipment.

Applications Other Than Broadcasting

August 21 - Police Dept., City of Vallejo, City Hall, Vallejo, Calif., new limited commercial C. P. for 2416 kc., 7.5 w.; WPDI, Franklin County, Board of County Commissioners, Police Station, Columbus, Ohio, license covering C. P. for 2416 kc., 350 watts, limited commercial service; KGPC, City of St. Louis, Police Dept., St. Louis, Mo., license covering C. P. for limited commercial service on 1712 kc., 500 watts; KHA, Alaska Packers' Association, Uyak, Alaska, license covering C. P. limited public service and coastal service on 500, 460, 227, 268, 272 and 2428 kc., 200 w.; KYK, Alaska Packers' Association, Karluk, Alaska, license covering C. P. for limited public and coastal service on 2428, 3178 kc., 50 watts; W9XAP, Chicago Daily News, Inc., Chicago, Ill., license covering C. P. for experimental television service on 2750-2850 kc., 1 KW; YKB, Globe Wireless, Ltd., Sherwood, Oregon, license covering C. P. for coastal service on calling: 5525, 11050, 16580, 22100; Working: 4116, 6515, 8630, 11020, 11080, 11140, 11200, 16900, 22160, 1500 watts

August 22 - Sun Oil Company, Dallas, Texas, new C. P. for experimental service on 1000 kc., if possible, and 1 KW; W2XCD, DeForest Radio Company, Passaic, N. J., license covering C. P. for 2000 to 2100 kc., 5 KW, visual B/c service; WLC, Michigan Limestone & Chemical Co., Rogers City, Michigan, assignment of licenses to Central Radio Telegraph Co., PG service and limited public service; W10XF, Chicago Daily News, Airplane NC-28-E, modification experimental license for and additional frequency of 1584 kc., and to move transmitter from Airplane X-855-E to the location given; The Doolittle Radio Corp., new location somewhere between Hartford, Conn., and Springfield, Mass., to be determined, new experimental C. P. on 1330 kc., 50 watts; WJK, Press Wireless, Inc., Needham, Mass., C. P. for additional transmitter on 7370, 7835, 15670, 15880 kc., 5 KW, limited public service; W8XL, General Motors Radio Corp., Dayton, Ohio, modification of experimental C. P. for extension of completion date to 9/2/30.

August 23 - Bell Telephone Laboratories, Inc., portable to be mounted on truck used principally in State of New Jersey, new C. P. for experimental service on 1608, 2302, 3076, 4108, 5510, 6155 kc., 400 watts; Universal Aviation Corp., Airplane NC-801-E, new aircraft license on 5600, 3484 kc., 50 watts.

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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

AUG 29 1930

PRESS RELATIONS DEPARTMENT
G. W. JOHNSTONE

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No. 364

WILL RCA AND MACKAY GET SHORT WAVES?

With the filing of rebuttal briefs in the short wave litigation in the District Court of Appeals, the Radio Corporation of America and the Mackay Radio and Telegraph Company stand out as the foremost contenders for the dominant position in the continental radio communication field.

While the Radio Commission has taken no action to recover the 40 continental short wave channels allocated to the now defunct Universal Wireless Communications Company, such a move is expected unless the receivers are quick to reveal their ability to carry forward the original plan of Universal Wireless to link 110 cities with a radiotelegraph network by the end of 1931.

Before Universal Wireless went into bankruptcy, the whole short wave litigation appeared hopelessly muddled with the channels so tied up that none of the contenders could use them. The Intercity Radio Telegraph Company, which also went into the hands of receivers, appears also to be out of the running despite the effort of Great Lakes ship owners to secure its channels.

Col. Thad Brown, General Counsel of the Commission, said his office is investigating the Universal Wireless case and its receivers. He has made it clear that the Commission made the original allocation on the condition that the inter-city network would be completed at a certain time and that it can recover the channels when it is assured that the licensee is unable to fulfill its part of the bargain.

RCA and the Mackay company merely repeat former arguments in their new briefs. The consensus of the former is that it has the resources to use the channels to best advantage and that it needs them to coordinate a continental service with trans-oceanic system. RCA denies that it would operate a monopoly, pointing out that it would have to meet the competition of the wire lines just as it does the cables on the oceans.

The Mackay company contends that with the radio facilities it would be able to provide the public with a coordinated telegraph system as well. Thus, it is contended, a broader service than RCA could provide would be made available, especially for rural communities.

Press Wireless, Inc., which claims to represent the American press, was given a fair share of the short wave facilities at the beginning, and so it is not expected to make a very determined fight for any more. RCA, in its brief, however, contends that Press Wireless does not represent the press of the country but only five newspapers. It is also pointed out that the newspaper wireless organization has submitted no plans for development of its system to the Commission.

RCA rather mischievously reminds the Commission that it stated at the time of the allocation to Universal Wireless that "There has been no question of the financial ability of the company."

"The writer of this sentence", the brief declares, "must really have written with his tongue in his cheek."

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14 CASES ON FIRST COMMISSION DOCKET

Fourteen applications are scheduled on the first two-weeks' hearing docket of the Federal Radio Commission, beginning September 2nd, according to announcement August 26. A heavy slate of hearings will have to be followed throughout the Fall if the Commission catches up with the Summer's accumulation.

The first docket is as follows:

September 2 - WORD and WCHI, People's Pulpit Association, Chicago, Illinois.

September 3 - WLC, Michigan Limestone and Chemical Co., Rogers City, Michigan.

September 4 - Vacant.

September 5 - KCRC, Champlon Refining Co., Enid, Okla., KGFF, D. R. Wallace, Alva, Okla.; new station, W. G. Hughes, E. L. Walden, A. F. Bunch, Frank DeWolf, Guymon, Okla.

September 8 - WCLB, Arthur Fiske, Brooklyn, N. Y.

September 9 - KGCR, Cutler's Radio Br. Service, Inc., Watertown, S. Dak.; new station, F. L. Elliott and M. S. Finley, Hoosier Broadcasting Co., Indianapolis, Ind.; WHDL, George F. Bissell, Tupper Lake, N. Y.

September 10 - WGST, Georgia School of Technology, Atlanta, Ga.; WOW, Woodmen of the World Life Insurance Association, Omaha, Nebr.; WODX, Mobile Broadcasting Corporation, Mobile, Ala.

September 11 - New station, Mosby's, Inc., Missoula, Mont.

September 12 - WDGY, Dr. George Young, Minneapolis, Minn.

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MAGAZINE POLL UNAUTHORIZED

In response to many inquiries, the Federal Radio Commission authorized the following statement:

"It has come to the attention of the Commission that 'Radio Doings', a magazine published in San Francisco, California, is sending out advertising broadsides in which the statement is made that several California broadcasting stations must go off the air, and also making the statement that the results of an 'extensive survey' being conducted by that magazine, to be announced October 1, 'may be the deciding factor.' The magazine is soliciting subscriptions and conducting a poll, ballots for which are printed in the magazine.

"The Federal Radio Commission has not authorized any such 'survey' by 'Radio Doings' or any other magazine, nor will it do so. The Commission will wholly ignore any such 'survey' or 'poll' as that being conducted by 'Radio Doings' or by any other organ where it appears such a contest has as its real purpose the increase of such paper's circulation. Contests of this character are never indicative of the real merit of stations. The Commission is not considering a reduction in the number of broadcasting stations in California and no such reduction is contemplated."

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PHILADELPHIA FIRM GETS GREEK CONCESSION

Durham & Co., Inc., of Philadelphia, announced recently through their New York representative, H. C. Martin, that they had signed a contract with the Greek Government whereby for twenty years they will erect, equip and maintain all radio stations required in that country. The first station will be built at Athens, using a power output of 25,000 watts.

"The Athens broadcaster will reach every principal city of the island republic", said Mr. Martin. "There is no broadcasting station in Greece today. The Greek listeners receive their radio programs from other countries. We have already organized the Durham Radio Corporation of Greece, Durham Corporation of Guatemala and a Turkish company. They will become subsidiaries of an international organization which is being formed. We are negotiating with Brazil, Honduras, Chile and other South American nations."

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RECEPTION BETTER AT HIGHER LEVELS

Higher altitudes bring better radio reception, Radio Commissioner Harold A. Lafount observes in a statement relating to some of his experiences in Southern Colorado while making a survey in the West.

From cities located in beautiful and fruitive valleys, he ascended to resorts, sheep camps, and on up to the ranger stations on the mountain peaks.

He said it was interesting to note that reception improved with increasing altitude, and at an elevation of 11,200 feet programs from 32 stations were heard during daylight hours. Announcements of call letters were heard distinctly, but due to static most of the programs could not be continuously enjoyed.

At all elevations, from four to nine programs could be heard and enjoyed. The rangers, sheep herders, and ranchers were receiving weather reports and forecasts, besides important news items, and often talks from Washington by Senators, Congressmen and Government officials. An especially built portable receiver was used for this checking.

Mr. Lafount said one sheepherder told him: "I try to talk to my dogs, horses, and sheep as correctly as those New York announcers talk to us over the air." Continuing, Mr. Lafount added: "One evening after dark I saw a sheep wagon and concluded to stop and interview the occupant. I found the herder lying on a cot near the wagon listening to a radio program of high class music. The herder remarked: 'I am supremely happy; the clear sky, bright stars and the outline of these mountains form a perfect setting for the beautiful music I am listening to.'"

Commissioner Lafount believes radio programs are doing much to educate listeners as well as to entertain them. He said: "Reception is good, and I am well pleased with the allocation. It can be improved but not materially until we reduce the number of stations operating simultaneously, or until stations can be synchronized."

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: BUSINESS LETTER BRIEFS :
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What is believed to be a new record in rebroadcasting radio programs was set on August 25th when signals from a station in Saigon, French Indo-China, were carried approximately 22,334 miles. The Saigon broadcast was picked up by Station VK2ME, Sydney, Australia, and from there relayed to KDKA, which in turn rebroadcast the signals to Australia and at the same time broadcast on its standard wave length.

The Ware Manufacturing Corporation has been added to the list of licensees of the Radio Corporation of America. The Ware Company recently sold RCA nine fundamental radio patents, most of which were the inventions of Paul Ware, President of the company.

The installation of radio receivers in automobiles is helping to decrease the interference caused by autos, trucks and busses to short wave DX reception, according to Alfred H. Grebe, pioneer wireless experimenter. Trucks and busses continue to work havoc with long distance communication, he contends.

With 282,000 radio sets already in operation in the country, a developing market for American radio manufacturers is seen in Czechoslovakia, according to the Department of Commerce. As of March, 1930, crystal sets were 60 per cent of the number and 40 per cent were tube sets. Of the latter, about 10 per cent were operated on domestic lighting current and the rest on batteries.

A tract of land situated on Mountain Point, Revillagigedo, Channel, Alaska, has been transferred to the Department of War and set aside as site for a radio station by an executive order issued by President Hoover. The right to construct such aids of navigation as are necessary on the shoreward portion of the reservation is reserved to the Lighthouse Service of the Department of Commerce.

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NO BUSINESS LETTER ISSUE MONDAY

Due to the fact that the Government offices will be closed on Monday, the issue of September 1st will be omitted unless something of importance breaks from another source.

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RADIO FAIR BROADCAST EXPENSIVE

Feature programs which will be broadcast from the studios of the National Broadcasting Company and the Columbia Broadcasting System will originate, during the six days of the Radio World's Fair, September 22-27, inclusive, in Madison Square Garden where the nation's radio manufacturers will be displaying their 1931 models.

Including artists' fees, wire tolls, costuming and network costs, the programs will account for the expenditure of \$300,000, it is estimated, or, about \$1 for each of the 300,000 visitors who are expected to attend.

Broadcasting will be continuous each day, from the opening of the show at 2 P. M. until the close at 11 P. M., excepting for the hour between 5 and 6 o'clock, according to G. Clayton Irwin, Jr., General Manager.

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

August 23 - KIDO, Frank L. Hill & C. G. Phillips, d/b as Boise Broadcast Station, Boise, Idaho, modification of C. P. to change equipment on C. P. and operate unlimited hours. Station is licensed to operate full time temporarily until another station is assigned to 1250 kc; KOH, Jay Peters, Inc., Reno, Nevada, modification of C. P. to change transmitter and studio location on C.P. locally; KWJJ, KWJJ Broadcast Co., Inc., Portland, Oregon, license to cover C. P. issued 5/12/30 to change equipment.

August 25 - WEAO, Ohio State University, Columbus, Ohio, license to cover C. P. issued 6/20/30 to make changes in equipment; WCSC, Fred Jordan & Lewis Burk, Charleston, S. C., license to cover C. P. issued 6/9/30 to move transmitter to Savannah Highway, Charleston, change frequency from 1310 kc. to 1360 kc. and increase power from 250 W. day and 100 W. night to 500 W., unlimited; WQDX, Stevens Luke, Thomasville, Georgia, C. P. to move studio locally, change equipment, change frequency from 1210 kc. to 1340 kc., and increase power from 50 W to 500 W., unlimited; WRBI, Chas. A. Kent & Milton U. Kent, d/b as Kent's Furniture & Music Store, Tifton, Ga., C. P. to install new equipment, increase power

from 20 W to 250 W. day and 100 W. night, and operate unlimited hours, station is at present licensed to share equally with a station to be assigned later; KFOR, Howard A. Shuman, Lincoln, Nebraska, C. P. to install new equipment, change frequency from 1210 kc., to 930 kc., increase power from 250 W. day and 100 w. night to 1 KW day and 500 w. night, and change time from unlimited to sharing equally with KMA, at new location authorized by C. P. issued 8/1/30, 46th and) Sts., Lincoln, Nebraska.

August 26 - WCAO, Monumental Radio, Inc., Baltimore, Maryland, C. P. to move old equipment to 811 West Lanvale St., to be used as an auxiliary transmitter; WTBO, Associated Broadcasting Corp., Cumberland, Maryland, C. P. to install new equipment, change frequency from 1420 kc., to 1410 kc., and increase power from 100 w. to 250 w., unlimited; WLVA, Lynchburg Broadcasting Corp., Lynchburg, Va., amendment filed to C. P. to request 250 watts day and 100 watts night instead of 250 w. day and night; WMAN, Columbus Broadcasting Corp., Columbus, Ohio, C. P. to move transmitter and studio locally, install new equipment and increase power from 50 w. to 100 w. (present frequency 1210 kc.); WCAZ, Robert E. Compton & Walter H. Tanner, d/b as Superior Broadcasting Service, Carthage, Ill., request for authority to voluntarily assign license to the Superior Broadcasting Service, Inc.; WILL, University of Illinois, Urbana, Illinois, C. P. to install new equipment; KELW, Union Bank & Trust Co. of Los Angeles, Guardian of the Estate of Earl L. White, Burbank, Cal., request for authority to voluntarily assign license to the California Broadcasting Co., Ltd.; Merle F. Jewell & Merinda C. Jewell, Hood River, Oregon, C. P. to erect a new station to use 1500 kc., 50 watts and unlimited hours.

August 27 - WCDA, Italian Educational Broadcasting Co., Cliffside Park, N. J., C. P. to install new equipment and increase power from 250 W. to 1 KW on 1350 kc.; WRBQ, J. Pat Scully, Greenville, Miss., modification of C. P. to indefinitely extend time on C. P. issued 2/11/30; WNAD, University of Oklahoma, Norman, Oklahoma, modification of C. P. to make changes in equipment on C. P. issued 6/24/30; WGCM, Great Southern Land Company, Mississippi City, Mississippi, C. P. to make changes in equipment; WLS, Agricultural Broadcasting Co., near Crete, Illinois, modification of C. P. to extend time on C. P. to November 6, 1930 (C.P. issued 10/19/29); WIAS, Morris W. Poling & James F. Poling, d/b as Poling Electric Company, Ottumwa, Iowa, modification of C. P. to extend time on C. P. to September 27, 1930 (C.P. issued 5/12/30); For New Stations: F. L. Smith, d/b as Florence Broadcasting Company, 3 miles N.W. of Florence, S. C., C. P. to erect a new station to use 1310 kc., 100 w., and unlimited time; Robert J. Boudreau & Joshua A. Trotti, Lake Charles, Louisiana, C. P. to erect a new station to use 1000 kc. 5 KW, and unlimited hours.

Applications Other Than Broadcasting

August 23, 1930 - Bell Telephone Laboratories, Inc., portable to be mounted on truck used principally in State of New Jersey, new C. P. for experimental service on 1608, 2302, 3076, 4108, 5510, 6155 kc., 400 watts; Universal Aviation Corp., Airplane NC-801-E, new aircraft license on 5600,3484 kc., 50 watts.

August 26 - Henry S. Tenny, Airplane NC-907-W, license for new aircraft on 3106 kc., 15 watts; W3XR, Bell Telephone Laboratories, Inc., Mendham Township, N. J., modification of C. P. for extension of completion date to 10/15/30; WRDS, State of Michigan, Dept. of Public Safety, East Lansing, Mich., license to cover C. P. for 1662 kc., 1 KW night, 5 KW day, limited commercial service; Boeing Air Transport, Inc., Airplanes NC-234-M and NC-228-M, license for new aircraft licenses on 3172, 5660, 3106 kc., 50 watts; W9XF, Great Lakes Broadcasting Co., near Downer's Grove, Ill., renewal of relay broadcasting license for 6020, 11800, 21500 kc., 5 KW.

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DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission granted the following applications on August 26:

WKBH, Jos. Callaway, d/b as Callaway Music Co., LaCrosse, Wis., consent to voluntarily assignment of license to WKBH, Inc.; KFHA, Western State College of Colorado, Gunnison, Colo., consent to voluntarily assignment of license to Waldo L. Hawkins and Dr. A. R. Craig, d/b as The Hawkins-Craig Syndicate; KGFL, W. E. Whitmore, Raton, N. M., C. P. to move transmitter and studio locally in Raton; WEBQ, First Trust and Savings Bank of Harrisburg, Harrisburg, Ill., C. P. to make changes in equipment; WEHC, Emory and Henry College, Emory, Va., C. P. to change equipment installing one 250 watt tube, high level modulator; WHBL, Press Publishing Co., Sheboygan, Wis., C. P. to install new transmitter with 500 watts maximum power, the same as licensed power; WEW, The St. Louis University, St. Louis, Mo., C. P. to make changes in present apparatus, installing a buffer stage and additional R. F. amplifier; WBZ, Westinghouse Electric and Manufacturing Co., Boston, Mass., modification of C. P. extending completion date to Dec. 31, 1930,, with location of transmitter at Millis Township.

Also, WJSV, The Independent Publicing Co., Alexandria, Va., modification of C. P. extending completion date to Dec. 10, 1930; WKBI, Fred L. Schoenwolf, Chicago, Ill., license to cover C. P. on 1420 kc., 100 watts, dividing with WHFC and WEHS; KFPW, John Brown Schools, Ft. Smith, Ark., license to cover C. P. on 1340 kc., 50 watts, daytime; WJBK, James F. Hopkins, Inc., Highland Park, Mich., license to cover C. P. on 1370 kc., 50 watts, dividing with WIBM; WOMT, Francis M. Kadow, Manitowoc, Wis., license on 1210 kc.,

100 watts, unlimited time; KXO, E. R. Irely and F. M. Bowles, El Centro, Cal., modification of license to change frequency from 1200 to 1500 kc.; WNBK, Stuart Broadcasting Corp., Knoxville, Tenn., C. P. to install new equipment maximum power 150 watts, and increase power from 50 to 100 watts; WJBW, Charles C. Carlson, New Orleans, La., C. P. to change equipment and increase power to 100 watts night and day; KMLB, J. C. Line, Monroe, La., authority to operate unlimited hours for period of 2 weeks from August 26th on experimental basis; Rose City Amateur Radio Club, H. K. Lawson, Portland, Oregon, authority to have transmitter on board an airplane of Rankin Air School at Portland, Ore., to operate on 8650 kc., 10 watts, A3 emission, for period of 10 days.

Also, W3XAK, National Broadcasting Co., Inc., Portable, Bound Brook, N. J., renewal of license 2100 to 2200 kc., 5 KW; subject to all rules and regulations regarding television stations; KGUG, Aeronautical Radio Inc., Big Springs, Texas, C. P. 3483, 5600 kc., brown chain 250 watts, 278 kc., 15 watts; W9KO, Mokrum Kleineschmidt Corp., Chicago, Ill., C. P. 1604, 2398, 3256, 4795, 6425, 8650 kc., 750 watts, subject to all conditions governing experimental stations; American Telephone and Telegraph Co., Lawrenceville, N. J., modification of license to use additional transmitter with same power and frequency as existing license - 10550, 16270, 21420 kc., 20 KW; Globe Wireless, Ltd., Los Angeles, Cal., modification of license extending completion date to December 21, 1930; KJK, King Cover, Alaska, and KFX, Zachar Bay, Alaska, Radiomarine Corp. of America, license coastal frequencies - calling 500 kc., working 425 kc., point to point frequency, calling and working MPS Kodiak, 268 kc., calling and working WZF, Squaw Harbor, 252 kc.; calling and working; other stations in same vicinity 222 kc., 20 watts, A1 and A2 emission; KXW, Radiomarine Corp. of America, Ikatan, Alaska, license coastal, granted same as above; KGRP, W. W. Eichler, San Diego, Cal. "Santo Amaro" temporary authority to operate on 5525 kc., working 5555 and 8290 kc., 75 watts.

Set For Hearing

For New Stations: Atlantic Broadcasting Corp., New York City, asks for C. P. 2778 kc., 500 watts, unlimited time; Globe Wireless, Ltd., Cypress, Cal., asks for C. P. frequencies 165, 174, 181, 184, 3298, 4575, 5235, 5855, 7385, 7925, 15010, 18140, 19260, 20540 kc., 10 KW, unlimited time; Same Co., Island of Oahu, T. H., asks for C. P. frequencies 3274, 3324, 4725, 5235, 6905, 7640, 10050, 15700, 18580, 19940 kc., 10 KW, unlimited time; KGQ, Olympic Radio Co., Hoquiam, Wash., asks for C. P. for phone set, 2320 kc., 100 watts, operate 7 A. M. to 7 P. M. daily; WBBM-WJBT, Atlass Co., Inc., Chicago, Ill., asks for C. P. to change equipment and increase power from 25 KW to 50 KW; KOA, National Broadcasting Co., Inc., Denver, Colo., asks for C. P. to move transmitter locally, install 50 KW equipment and increase power from 12½ KW to 50 KW; and to use portable for most desirable location.

Also, WJZ, Radio Corporation of America, New York City, asks for C. P. to install new 50 KW equipment; WSFA Montgomery Broadcasting Co., Inc., Montgomery, Ala., asks for modification of license to increase day power from 500 to 1000 watts, and change hours of operation from sharing with WODX to unlimited; WMAZ, Macon Junior Chamber of Commerce, Macon, Ga., asks for modification of license to change frequency from 890 to 1130 kc., increase night power from 250 to 300 watts, and change hours of operation from sharing with WGST to unlimited; WIS, Geo. T. Barnes, Inc., Columbia, S. C., asks for modification of license to increase night power from 500 to 1000 watts; KOY, Neilsen Radio & Sporting Goods Co., Phoenix, Ariz., asks for modification of license to change frequency from 1390 to 940 kc.; WHBL, Press Publishing Co., Sheboygan, Wis., asks for modification of license to change frequency from 1410 to 620 kc., increase hours of operation from sharing with KFLV to 12 to 14 hrs. daily; KECA, Pacific Development Radio Co., Los Angeles, Cal., asks for C. P. to change location of transmitter and install new 5 KW equipment; WHBY, St. Norbert College, Green Bay, Wis., asks for C. P. to install new equipment change frequency from 1200 to 1260 kc., and increase power from 100 to 1000 watts.

Also, KFVD, Los Angeles Broadcasting Co., Culver City, Cal., asks for C. P. to install new 1 KW equipment, change frequency from 1000 to 860 kc., and increase power from 250 to 1000 watts; KLPM, John B. Colley, Minot, N. D., asks for C. P. to install new equipment 500 watts, maximum composite transmitter, change frequency from 1420 to 1240 kc., and increase power from 100 to 500 watts; WQAM, Miami Broadcasting Co., Miami, Fla., asks for C. P. to move main studio locally in Miami, change equipment and increase daytime power from 1 KW to 2½ KW day and 1 KW night; KGKL, KGKL, Inc., San Angelo, Tex., asks for C. P. to make certain changes in transmitter and increase power from 100 to 250 watts; WPTF, Durham Life Insurance Co., Raleigh, N. C., asks for C. P. to change transmitter location, change equipment and increase power from 1 KW to 5 KW; KBTM, W. J. Beard, d/b as Beard's Temple of Music, Paragould, Ark., asks for C. P. to install new equipment, change frequency from 1200 kc. to 990 kc. and increase power from 100 to 500 watts; KWCR, Harry F. Paar, Cedar Rapids, Iowa, asks for C. P. to change equipment, increase in day power from 100 to 250 watts; KMLB, J. C. Liner, Monroe, La., asks for modification of license to increase hours of operation from daytime to unlimited.

Also, For New Stations: Salina Broadcasting Co., Salina, Salina, Kans. asks for C. P. 1500 kc., 100 watts, daytime; Cleveland Radio Broadcasting Corp., Dayton, O., asks for C. P. 1310 kc. 100 watts, unlimited; The Starr Piano Co., Richmond, Ind., asks for C. P. 1120 kc., 500 watts, unlimited time; Francis Walton, d/b as Central Illinois Broadcasting Co., Browning, Ill., asks for C. P. 1370 kc., 15 watts, daytime; A. W. Lytle, New Rockford, N. Dak., asks for C. P. 1320 kc., 7½ watts, 4 to 6 hours daily operation.

Application Denied - WJAY, Cleveland Radio Broadcasting Corp., Cleveland, O., requested authority to operate until 10:30 on evening of August 30, 1930.

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