

# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

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 :: :: CONFIDENTIAL—NOT FOR PUBLICATION.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

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G. W. JOHNSTONE

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No. 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 <sup>most</sup> 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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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 18-21st 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.; WSUI, 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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## 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.

- 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" for .....audible 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, radiodetecting, 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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