

Indiana Historical Radio Society BULLETIN

Vol. 5

February, 1976

No. 1



Now you can
get the whole
wide world!

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All material for the May Bulletin must be submitted by April 25. Please contribute We need photos of members and / or their collections. Send material to Editors or Treasurer.

ARE YOUR DUES FOR 1976 PAID????

Unless your current dues are paid this will be your last copy of the IHRS Bulletin. We need your morale and financial support to continue with this bulletin publication Help! Help! Help!

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INDIANAPOLIS

SWAP MEET & FLEA MARKET

First Annual Mid Winter Swap Meet and Flea Market of Old Radio gear will take place at Indianapolis Vocational College, (Ivy Tech) 1315 E. Washington Street Indianapolis (just east of downtown on US40) WHEN-Saturday Feb 28 at noon. Every one asked to bring extras for sale or trade. Plenty of indoor space with convenient space to parking lot off street west of bldg. Business meeting at 1 PM C.U.-- at-Indy.

TU-BE OR NOT TU-BE

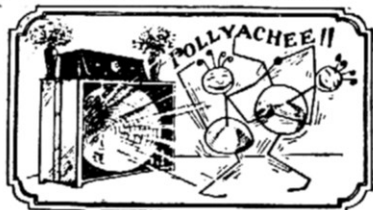


I sold my Reflex Four and built a Super het. How many tubes? Well, I just forgot; But a B plus wire kissed an A plus

post
And a flock of tubes gave up the ghost,
So I'm making a Crystal Set.

—Norman I. Schiller.

WORLD'S FINEST (3 FT. CONE) LOUD SPEAKER "ENSCO" KITS—\$10.00



The choice of leading engineers.
Write for booklet on how to make this in less than an hour.

ENGINEERS SERVICE COMPANY
25 Church Street New York

AUCTION

SPRING MEET SET FOR SATURDAY, APRIL 24

FORT WAYNE, IND.

The Ft. Wayne group is again sponsoring our Spring Meet, to be held at the Auburn-Cord-Duesenberg Museum located 14 blocks south of the Courthouse in Auburn, Indiana. An exciting program for the day includes two auctions - one for the benefit of the Museum fund, and the other for the convenience of members who wish to sell their radio and wireless gear. The Meet will be open to all radio and/or phonograph, wireless, amateur radio clubs and their invited guests. The Museum opens at 10 a.m. EST, and there will be a group-rate charge of \$1.25 per person admission. Passout tickets will be issued for noon lunch at local restaurants near by. The Auburn Museum houses one of the world's finest collections of classic and antique automobiles. Make your plans now to attend. You will enjoy the combination of IHRS activities and the beautiful show of automobiles.

INDIANA HISTORICAL RADIO SOCIETY EXHIBIT BEING MOVED TO MUSEUM

The Indiana Historical Radio Society Exhibit will be moved from the Indiana State Museum in Indianapolis to the Auburn-Cord-Duesenberg Museum in July. The display will be housed in a special room set aside for this purpose. The display traces both radio and television from their infancy to the present.

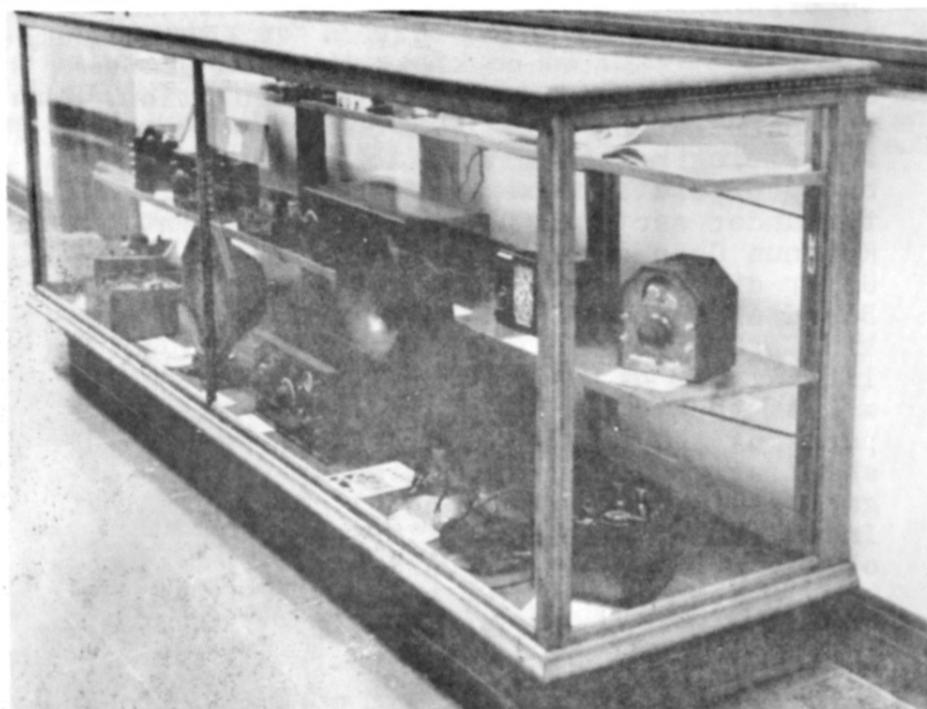
Del Barrett of Fort Wayne is chairman of the Exhibit Committee of the radio society. He has installed a preview of the display in a large showcase in the second floor hall.

The era covered by the exhibit parallels the era of the automobiles on display in the showroom. ■

AUBURN - CORD - DUESENBERG MUSEUM
AUBURN, INDIANA 46706

AUBURN MUSEUM EXPANSION

Thanks to our chairman, Delbert Barrett and his Museum Committee, the Auburn Museum is now a reality. Del solicited funds, purchased a glass show case, and moved it to Auburn December 30th. A temporary display of thirty items of radio gear is now located in a well lighted hallway near the Radio Room, and plans for our GOLDEN AGE OF HOME ENTERTAINMENT display are posted. Many compliments have already been received from members and guests of the Museum. Our next project will be the fund raising auction to be held at the Museum during our Spring meet on Saturday, April 24th. Members of IHRS are invited to donate radio, wireless, electrical or related items, no matter how small or large in value, for the auction. So, clean out that basement or garage, fellows, and bring in the gear! From cash contributions and auction earnings the committee is confident that the Museum budget will be met.



Preview of Indiana Historical Radio Society Exhibit to be located on the second floor of the museum.

I.H.R.S. ARTICLES OF INCORPORATION AMENDMENT

Your Board of Directors has proposed and adopted by resolution the following amendment to our Articles of Incorporation to be submitted at the Indianapolis Winter Meeting on February 28th, 1976, for vote of approval by the active members present. The reason for the proposed amendment is to include necessary language in order to comply with I.R.S. regulations for recognition of exemption. This change will enable us to receive contributions from foundations and from other sources for our non-profit projects, such as Museums.

1. Article II, Proposes Add: Indiana Historical Radio Society, Inc. is organized exclusively for educational and scientific purposes, including the making of distributions to organizations under section 501(c)(3) of the I.R. Code of 1954.

2. Article IX, Provision for Regulation. Add: The corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal income tax under section 501(c)(3) of the Internal Revenue Code of 1954.

Under dissolution of the corporation, the Board of Trustees shall, after paying or making provision for the payment of all of the liabilities of the corporation, dispose of all of the assets exclusively for the purposes of the corporation in such manner as shall at the time qualify as an exempt organization under section 501(c)(3) of the Internal Revenue Code of 1954, as the Board of Trustees shall determine. Any such assets not so disposed of shall be disposed of by the Court of Common Pleas of the county in which the corporation is located.



news roundup

LEO GIBBS (Kettering Ohio) picked up a rare "50 watter" tube recently in N.Y. Leo has a fine collection of 50 watt transmitting tubes. He is always looking for additions to his collection.

DEL BARRETT (Ft. Wayne In) finally got the DeForest Inter Panel Set, after 4 years trying. Good Show Del!

AMMONS, (Chris & Rick) report "finding" a near mint World Cry Set; nicely made Loose Coupler with brass galena detector and wooden phone cond; a good copy of 1918 Electro Import Catalogue; a Paragon 10 and DA-2 amp. Hmm-m-m must have been shopping in a museum

GARY VIERK (Laf. Ind) picked up a copy of Hawkins #8 Electric Guide. Congrats Gary

GLEN ROGERS (Laf. Ind) picked up a mint Federal DX58 in Ky.--guess that proves even a blind pig can pick up an acorn once in a while. Lucky me

Let us hear the results of your trips in the dark dank basements and flea mkts. We can all grind our teeth together when we find that "the stuff" was "right under our nose" and "we missed em" --Eds



NEWS INFORMATION

Breaks Ground



Using a silver spade, A. Atwater Kent, president of the Atwater Kent Manufacturing Company, Philadelphia, turned the first spadeful of earth for his new factory which will double the size and capacity of the present plant.

December, 1928

**EVEREADY
RAYTHEON
RADIO TUBES**

Trade-marks

Hazeltine Wins Verdict

A decision enjoining the Atwater Kent Manufacturing Company, Philadelphia, from further alleged infringement of the "plate circuit neutralization" patent held by the Hazeltine Corporation, Jersey City, N. J., was handed down by Federal Judge Moscovitz in Brooklyn on November 15. The Atwater Kent defense was that the Hazeltine patents were invalid because of other patents which antedated them.

Judge Moscovitz decided that the use of an inherent neutralizing capacity to effect neutralization, instead of a physical neutralizing condenser as employed in most of the modern Neutrodyne radio receivers, comes within the scope of the patent.

It is said that Atwater Kent plans to appeal this decision.

R.C.A. Loses Appeal to Supreme Court

The Supreme Court of the United States on Nov. 26, denied the Radio Corporation's appeal for a review of the injunction issued by the Federal District Court for Delaware restraining it from enforcing a license agreement with manufacturers of radio receivers using its circuit patent, requiring them to purchase from the R.C.A. all tubes in their sets.

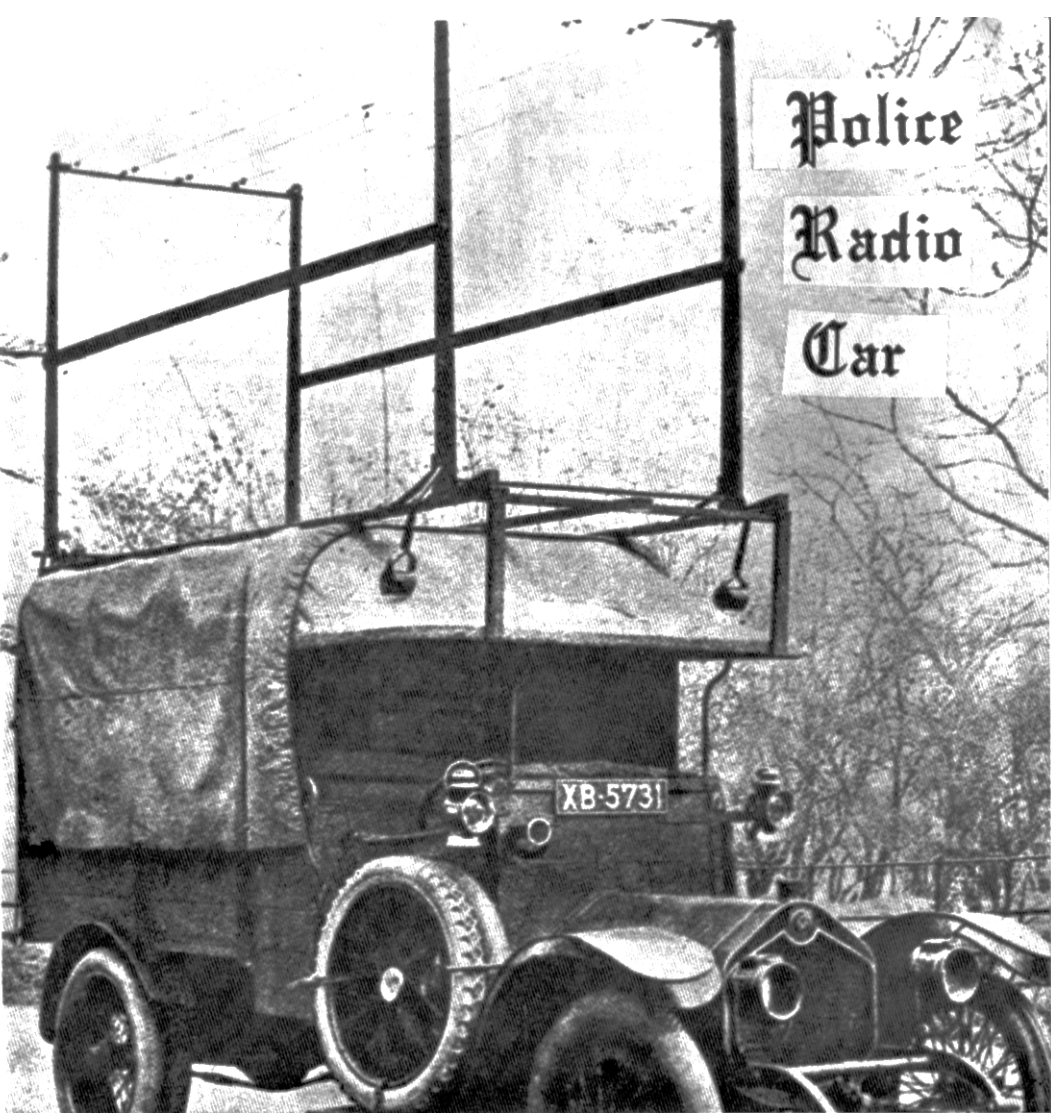
The important factor of the decision is that it upholds the lower court's decision that Clause Nine of the R.C.A. licensing agreement can no longer be practiced.

De Forest Is Held Inventor of Regenerative Circuit

In a decision recently handed down by the Supreme Court of the United States, Dr. Lee De Forest was held the prior inventor of the "feed-back" circuit as against Edwin H. Armstrong. This decision settles a case which has been before the courts for about eleven years.

The De Forest Company may now manufacture without interference radio sets utilizing the regenerative circuit. The decision, however, does not affect the industry as the Radio Corporation and its affiliated companies are licensed under both patents.

August, 1928



Scotland Yard was justly proud of their newest crime fighter...back in 1924.

"There is a six-valve receiver, which furnished radio and audio frequency amplification enough to make the incoming voices audible above any disturbance that even a mob riot might create. It can make itself heard at a distance of 30 miles by anyone except the London County Council, a governing body that is said to be stone deaf to anything invented since the Elizabethan Era," RADIO NEWS reporter

Armstrong Perry wrote.

Early interference problems included signals from "magnetos, power lines, violet ray beautifiers, and tram motors."

For radio security: "The radio patrol wagon might transmit on 300 meters and listen on 700. No radio eavesdropper could get both ends of their conversation without two receivers."

Finally, the "bedpost" antenna frame was geared so it "could be folded to pass under low bridges, trees, etc."

312 FASCINATING PAGES!

Re-live early days in **A FLICK OF THE SWITCH**

—our new 1930-1950 book



HAMS! Here's your exciting time trip to great old days of Amateur Radio. Read about the times and adventures of Ham Radio in the '30's and '40's. Revisit those old transmitters, receivers and Ham shacks. Over 200 pictures of historic Ham gear. Here's an experience you won't want to miss!

You'll enjoy the rest of this 312-page book, too. Other chapters include broadcasting, home radio-TV sets, World War II radio-electronics, the radioman, collecting and "how it works".

Only \$9.95 in beautiful hard-cover, \$6.95 in convenient handbook edition. Ten-day return privileges. Order now for immediate shipment!

ASK ABOUT OTHER VINTAGE RADIO BOOKS

SEND TODAY to Vintage Radio, Dep't Q,
Box 2045, Palos Verdes Peninsula, CA., 90274

Postage Paid. California residents add 6% tax.

OVER 1,000 PICTURES!

Hams Are Our Best Customers

Amateurs get the biggest kick out of old-time radio. You too can re-live those exciting days. Our books will give you many fascinating time-trips, and we introduce you to the rewards of collecting classic radio sets.

You'll get more pleasure with the complete set of books.



VINTAGE RADIO, 1887-1929. Pioneer days. 1,000 photos, 263 pages. \$7.95 hard-cover, \$5.95 soft.

RADIO COLLECTOR'S GUIDE, 1921-32: Data book, 50,000 facts, 9,000 models, 264 pages. Only \$4.95.



A FLICK OF THE SWITCH, 1930-50: Ham, home, military, professional radio-TV. 312 pages, 1,000 photos, \$9.95 hard-cover, \$6.95 soft.

1926-38 RADIO DIAGRAMS book covers 600 most-often-needed sets in 240 pages. Beitman's classic. \$7.00.



RADIO ENCYCLOPEDIA: Beautiful re-creation of Gernsback's 1927 classic, 175 pages. \$12.95 hard-cover, \$9.95 soft.

SPECIAL! ALL five books \$39.50 deluxe, \$32.50 standard.

SEND TODAY to Vintage Radio, Dep't Q,
Box 2045, Palos Verdes, CA, 90274.
We pay postage. Calif. residents add 6%.

BOOK REVIEW

"THE STORY OF NIPPER" Nipper, the loveable little terrier who for years was one of the World's most familiar trademarks- of "His Master's Voice" fame- was a dog owned by Francis Barraud, an English painter. This facinating 7½x9½ paperback tells how the artist concieved the idea for his famous painting; how the idea was promoted, and how years later attempts were made to exhume the bones of this pretty little animal ! Well illustrated...\$3.50 Available from Westal Press. P.O. 97, Vestal NY 13850



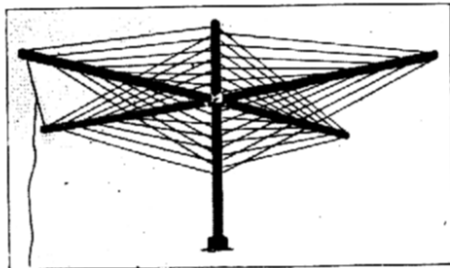
PATENTED

RADIO WONDER



Patented Radio Wet Ground eliminates ground noises 100%, reduces static to a minimum, insures a perfect moist ground under all conditions. Can be installed in ten minutes, lasts a lifetime. Indorsed by many leading Radio Engineers. Price \$5.00, delivered anywhere in the U. S. A. Circular will be sent on request. Order today and enjoy your Radio. Hundreds of satisfied users. Agents wanted.

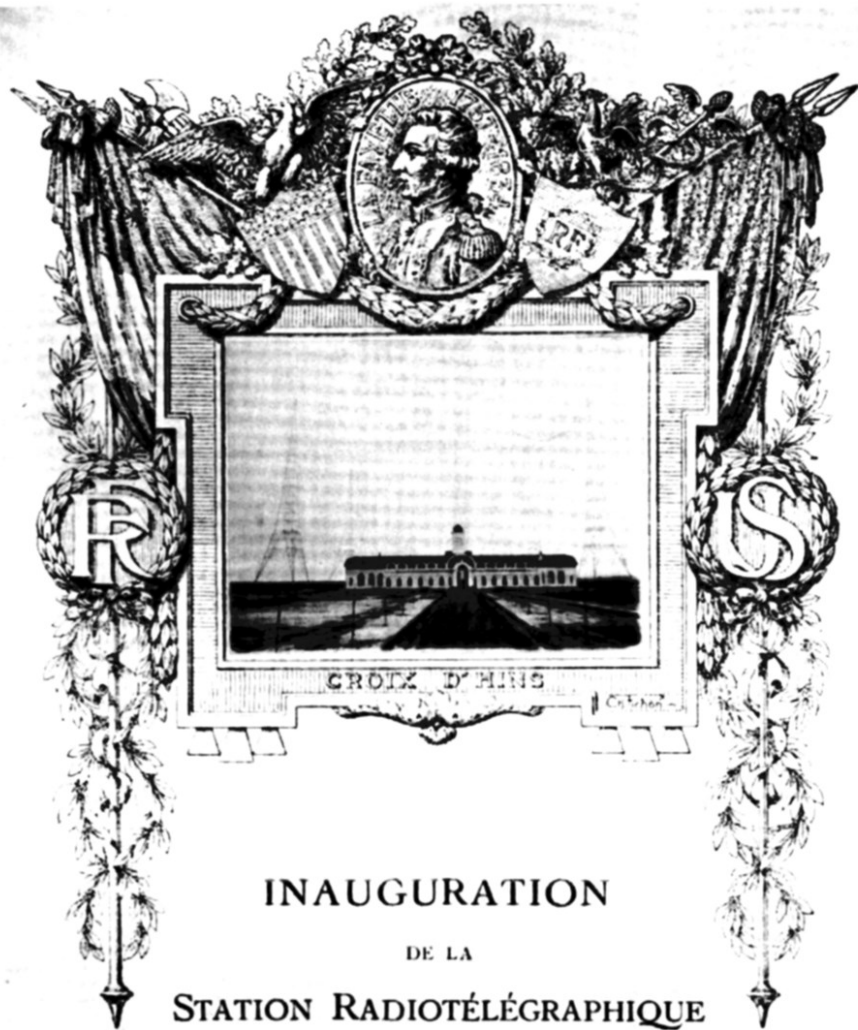
RADIO WET GROUND MFG. CO.
412 West 7th St. Little Rock, Ark.



FREE—a Trico Cameron Antenna

MAIL THIS TODAY!

JULY, 1930



INAUGURATION
DE LA
STATION RADIOTÉLÉGRAPHIQUE

LA FAYETTE

Le 18 Décembre 1920

CROIX - D'HINS (GIRONDE)
FRANCE

Monsieur le Commandant Hickey

STATION RADIOTÉLÉGRAPHIQUE

La Fayette

The completion of the installation of the new 200 KW Alexanderson Alternator by the General Electric Company of Schenectady in 1918 solved the problem of radio contact to Europe. The Atlantic Ocean had found its master. The return route was more difficult. The only three high powered Europe stations available were not fully adequate. (one station in Rome, one in Lyons and one at Carnarvon) The station at Lyons was improved and used, thanks to the revolutionary new vacuum receiving equipment in the United States. The need for a solid "cable circuit" to the US from Europe by radio still existed. A new station was planned near Bordeaux France This station was to be known as the "LA FAYETTE" and was not completed until after the Armistice (dedication of the station was December 18 1920) The Navy, Army and American manufacturers constructed this station for the French Government. The transmitter was a 1000 KW Federal-Poulsen "arc"and transmitted on a wave length nearly 10 miles long. (crest to crest) Eight Antenna masts 820 feet high supported a radiator nearly a mile long. The Navy believed that inspite of the wonders of the Alexanderson Alternator, this giant, five times the Alternator in power, would be a final, perfect completion of the radio path from Europe to the U.S. The completion of the LA FAYETTE was the high point, in a 25 year effort, to conquer the Atlantic by sheer "Power". The Engineers in their effort to guarentee success, had made too sure. The station was much more powerful than necessary. A sister station that had been planned near Monroe N.C. was never started.

ADAPTER for WD11

by

Jack Bacon

Tired of paying over five bucks apiece for WD11 adapters? Well here's a quick easy way to make them yourself for under 20¢ by only changing two wires. They are made from brass or aluminum tubing available in 12" lengths at most Hobby Shops. You will need three sizes: 1/8", 5/32", 3/16" and some solder.

Cut: 2 pcs 3/16" tubing 5/8" long
2 pcs 5/32" tubing 5/8" long
1 pc 5/32" tubing 3/32" long
1 pc 5/32" tubing 9/16" long
3 pcs 1/8" tubing 9/16" long

Fit together the respective tubing over the corresponding pins of your four pin UX tube replacement, while holding the tube upside down. Solder the tubing together and file smooth. Bend the large ends in slightly, so the tube will fit snugly. With the adapter on, the tube will look like its on stilts. You should be able to make five adapters with the 12" lengths. If you have a Radiola IIIA that needs four adapters, you have just saved \$20. Quite a saving.

G Top View of Sockets G

F1 • P

F1 • • F2

F2

P

VT24/864 socket

WD11 socket

The plate and F2 filament wire on the WD11 socket should be switched.

Roscoe H. George, Pioneer In TV, Dies

West Lafayette, Ind. — Services for Roscoe H. George, 79, retired Purdue University professor who helped pioneer the transmission of television pictures, will be held at 10 a.m. Wednesday in the Soller-Baker West Chapel, with burial in Tippecanoe Memory Gardens.

Mr. George, who retired as full professor of electrical engineering in 1965, died Sunday in Home Hospital here.

A native of Fairmount, he was graduated from the Fairmount Academy in 1915 and served in World War I.

He received his bachelor and master of science degrees in electrical

engineering from Purdue and joined the university as a full-time research assistant in 1927.

In the 1930s, he and others did some of the early work in the transmission of television and work in the black-and-white picture tube in connection with RCA.

Other specialty areas he researched included the conversion of microwave power into direct current and the wireless transmission of electric power. He was a member of several electrical engineering honoraries.

Survivors include his widow, Mrs. Rosa George.



Echophone

ECHOES OF THE WORLD

Manufactured by THE RADIO SHOP
Sunnyvale, Cal. Long Beach, Cal. Chicago, Ill.

★ ★ RADIOADS ★ ★

WANTED: EKKO Radio Verification Stamps & or albums. Used by radio stations in the '20 & '30's to confirm listeners reception .
Bx 684, Bryn Mawr, Pa. 19010 -Rod Phillips

WANTED: Cabinet for Ace 3B, panel specs 18"x 5" 3/16 chassis approx 5" deep. 2047 College Ave. Quincy, Ill. 62301- Al Jochem

WANTED: Junk Paragon DA-2 amp. for inside parts. Interested in what you have for sale. SASE for list Sale/Trade. Bx104, Mt. Carmel, Ill 62863-Chris & Rick Ammon

WANTED: Volume R17, 1957 RADIO DIAGRAMS, Supreme Publications--pay \$5 or swap Vol. 3, 4, 5 or 8. RR3, Bx510A, Syracuse, Ind. 46567 -Homer E Bachtel

WANTED: Grid leaks with unusual labels & logos. 6848 Commonwealth Blvd., Parma Hts., Ohio 44130-Gary B Schneider

WANTED: RJ5, AK breadboard parts, Zenith R3-R4. 2706 Cubhill Rd., Baltimore, Md. -Emmitt Smith

WANTED: Speakers pre '28, cone or horn, that need rprs. RR1 Box 41, Cutler Ind. -James Fred.

WANTED: Old Mics pre '40 also Mfgs info & specs on old Mics. Need G.E. Mic specs. 443 No. 31st. Milw. WI. 52308-Bob Paquette

WANTED: Unusual horn speakers. SELL: Nazi Field Radio has 3 large insignias. Siemens K32GWB, good condx \$125. 282 Highland Ave. Wadsworth Ohio 44281-Wm Wiley

"WANTED"

Representatives, jobbers, dealers in every City, County, State and Country (correspondence confidential) to handle our new line of radio receiving sets--the Ultra Synchrodyne VII and The Staraco VIII. Something worth your while. Stanley's Perpetual Radio Bulb Fuse.
THE STANLEY RADIO COMPANY
2947 Lorain Avenue Cleveland, Ohio.

"Built
First."

Coto

"to
Last"

**INSIST ON THE SILVER
PLATED AIR CONDENSER
FOR YOUR RADIO SET.**

RADIOAD (continued)

WANTED: Small knob for Kennedy V: Tuning Inductance for AR1300: Input Audio for Magnavox A1-R amp/drvr. Any "WBT Official Radiologue". Source for Savogran brand wood filler--318 E Houston St. Monroe, N.C. 28110 --R.E. Lozier Jr.

WANTED: Phanstiehl Mod 8C; DeForest Responder; AK Model R Spkr; Bases and drivers for Magnavox M4 and Radiola UZ1320 or 25; Grebe RORN-- 118 Countryview Dr. Naperville, Ill 60540--Mike White

WANTED Philco or AK Cathedral Radio-- 2505 Kickapoo Dr. Lafayette Ind 47905-- Gary Vierk Ph. 317-474-5700

WANTED Socket for W.E. broadcast tube 212D --1005 So 18th Lafayette, Ind 47905--Glen E. Rogers / W9ASX

WANTED Pictures of your radio, telegraph or gear collections and/or unusual components, static strainers etc. black & white glossy--IHRS Bulletin Edts.

WANTED Early Classic Super-Hets, Remler Scott, McMurdo-Silver etc. also Hallicrafters Sky rider. CASH OR TRADE--RR1 Box 218A Windfall Ind 46076--Don Johnston

TRADE Good cond. Radiola IIIA less tubes FOR Sears Roebuck Bat. Radio similiar to Crosley 51--7257 Murphy Dr. Indpls Ind 46256--Fred Prohl

SELL Radios, Tubes, Speakers etc. SASE for List. TRADE -AK10 4700, Zenith 4R --FOR-other AK BB, pre 1920 gear, Xtal sets, Loose Couplers.--118 Countryview Dr. Naperville Ill 60540--Mike White

WANTED Four binding post nuts for Westinghouse Aerola Sr. 3/8 -32 tap threads --RR1 Box 276 Barrington Ill 60010--- John E. Tschopp

RADIOAD (continued)

WANTED: Information on three dial Table Model TRF Receiver with name "NEO DYNE CHICAGO" on front panel--905 N. Van Buren Auburn Indiana 46706--G. A Capen

FREE: Four pages of instructions for "Nickel Plating Old Radio Parts" will be sent for three 13¢ stamps plus SASE--318 E Huston Monroe N.C. 28110--Robert Lozier Jr.

Proven Television NOW



**ONLY
\$19.75**

Price of scanning
disc alone \$2.50

SEE-ALL Televisor Kit

No need to wait any longer to enjoy modern television when SEE-ALL offers proven equipment at such low prices.

**Less than 20 minutes
required to assemble it.**

All essential parts and simple instructions to assemble a fool-proof televisor included.

SEE-ALL Short-wave Receiver lists for \$39.50 less tubes.

At your dealers
otherwise send purchase price for delivery postpaid.

**TELEVISION MFG. COMPANY
OF AMERICA, INC.**
5 UNION SQUARE NEW YORK CITY

Massachusetts Radio and Telegraph School

18 Boylston Street, Boston

Send for Catalogue

Tel. Hancock 8184 Established 1905

DECEMBER, 1930

Amazing Reception! RED ARROW ANTENNA

(Sponsored by Yahr-Lange of
SUPERBALL fame)

A new "all directional" aerial which in addition to giving marvelous reception has the added advantage of being a handsome weather vane.

Does away with unsightly wire aerials and makes a real ornament for any home. Easily brings in distant stations with amazing clearness, due to patented condenser which neutralizes entire system.

Write for
more complete
description.



\$6.50

Complete
with
Installation
Kit

SUPERBALL ANTENNA

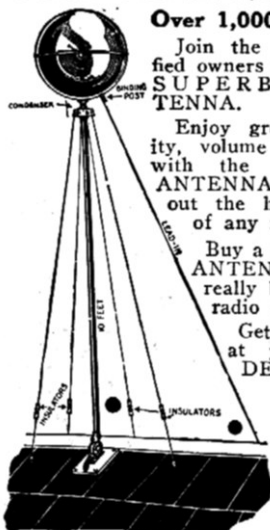
Over 1,000,000 in Use

Join the million satisfied owners of the famous SUPERBALL ANTENNA.

Enjoy greater selectivity, volume and distance with the SUPERBALL ANTENNA, which brings out the hidden powers of any radio set.

Buy a SUPERBALL ANTENNA today and really begin to enjoy radio reception.

Get one TODAY at your RADIO DEALERS.



\$3.25

Complete
with
Installation
Kit

YAHRLANGE, INC.

205 E. Water St.

Milwaukee, Wis.

Restoring Antique Radio Receivers

SOLVING THE 6 VOLT "A" BATTERY PROBLEM

A good solution for that difficult "A" battery source is to use a 6 volt rechargeable Alkaline battery that will handle up to 5 or 6 type 201As for about an hour or more of operation. It will even last for several weeks on one charge if used for short demonstrations. Type 565 Ever-ready 6 volt battery is portable and small enough to fit inside most cabinets - measuring $2 \frac{3}{4}$ " X $2 \frac{3}{4}$ " X $5 \frac{3}{8}$ " high. Both battery and charger are available for \$5.95 plus postage from Burnstein Applebee, 3199 Mercer St., Kansas City, Mo. 64111 - Catalog #18D1674-1.

It works much better than my home-made "buzzing" power supply and it is much easier to handle than a wet storage battery.

Ross Smith, Elkhart

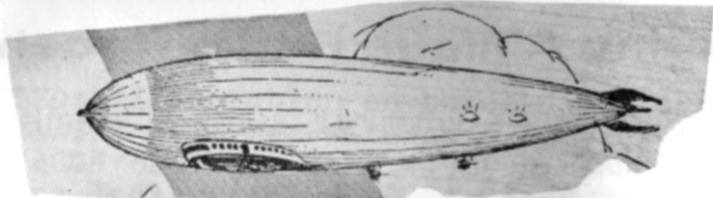
Television Schedules

The only information obtainable after contacting all stations known to be experimenting with television

STATION	LOCATION	WAVE-LENGTH IN METERS	HOLES IN SCANNING DISC	R.P.M. OF MOTOR	SCHEDULE OF TRANSMISSION
WGY	Schenectady, N. Y.	379.5	24	1260	Tues.-Thurs.-Fri. 1:30-2 P.M. Sun. 10:15-10:30 P.M. E.D.S.T.
2 XAF	Schenectady, N. Y.	31.4	24	1260	
2 XAD	Schenectady, N. Y.	21.96	24	1260	
3 XK (Jenkins)	Washington, D. C.	46.72	48	900	Mon.-Wed.-Fri. 9 P.M. E.D.S.T.
WRNY	New York	325.9	44	600	From 7 A.M. on. Every hour on the hour.
2 XAL		30.91		440	
1 XAY (wlex)	Lexington, Mass.	Building	new apparatus. Will be on air shortly.		
WCFL	Chicago, Ill.	61.5	45	900	Irregular.
KGFI	Los Angeles, Calif.	212.6	48	Unknown	1-6 A.M. P.S.T.
WKBI	Chicago, Ill.	215.7	48	900	Have applied for license.
WIBO	Chicago, Ill.	305.9	45 3 spirals	900	Mon.-Wed.-Fri.-1 A.M. Thur.-Sat.-1:30 A.M.

NOTE—R.P.M. of motor divided by 60 equals number of pictures sent per second. Also the number of holes in the scanning disc spiral correspond to the number of lines scanned per picture.

October, 1928



In 1937 the wireless call letters of the German Zeppelin "Hindenburg" were DEKKA. Have you seen this intriguing motion picture based on historical fact yet?



EDITORIAL STAFF
 Gary Vierk, Marshall Howenstein
 Glen E. Rogers

ANTH. WIRELESS ASSN. HISTORICAL AM. MUSEUM
HOLCOMB NEW YORK

Rad 9A... Ur SPK CW... WKD HRD at... 922
Audibility... QSS Ni: O... ORN Ni: T... 75A
Spk Xmtr... Thor., glass plate... oil, flat O... ptary
Tube X... -202 Hartley os... 2 buff., UV... inp.
... V-201 es UV-20... mp., UV-2... wid
... Fed. SB mike. Pwr... C wid 36 j... G set
Aer... 220 ft. flat-top w... interpoise. ... ators
Rec... CR-13. D... P-501A... by'... ones
... Batterson... 2GB... sident and... stee
QSL direct to: Bruce Kelley W2ICE, Sec., Main St., Holcomb, New York

ANOTHER RADIO SURPRISE
Price \$3, f. o. b. New York City



Compact, increased efficiency, shorter connections, less wiring—brings in stations you never heard before. Make this a part of your up-to-date set.

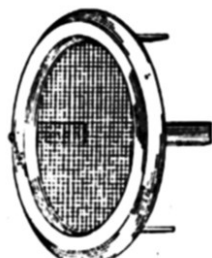
A high grade article in Red Bakelite with Phosphor-Bronze Contacts and Alloy Resistance Wire.

FOR BASE OR PANEL MOUNTING

KING AM-PLI-TONE

82 Church Street New York
Mfrs. of the Famous KING AM-PLI-TONE
Jobbers, wire or write for proposition

Just Out!



A new type radio panel window of improved design

An attractive addition to any panel
Black or nickel finish

Price 35 cents

STEVENS

Makers of Radio Accessories

434 60th St., Oakland, Calif.

Hit it anywhere! **MAGNETITE**
RADIO-CRYSTAL

The most sensitive Crystal Detector on the world market. Unaffected by handling or moisture and will render efficient service indefinitely. Price 50 cents at ALL DEALERS—or mailed direct. GUARANTEED by

GIBBONS-DUSTIN RADIO MFG. CO.

OWNERS AND NATIONAL DISTRIBUTORS

518 WEST 9TH STREET

LOS ANGELES, CALIF., U. S. A.



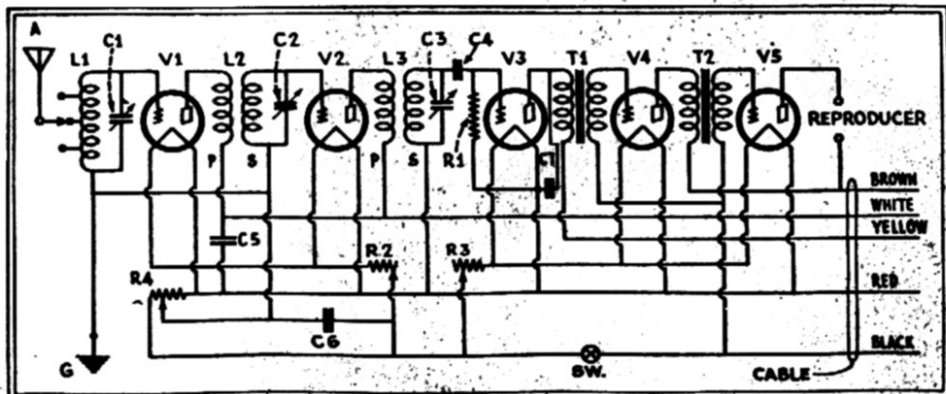
Atwater Kent

The one millionth radio receiving set was made by the Atwater Kent Manufacturing Co. in its 15 acre factory at Philadelphia Pa. on FRIDAY DECEMBER 3rd 1926. on that same day 5317 radio sets were completed--11 per minute.

The first receiving set sold by the Atwater Kent Mfg. Co. was shipped from the factory in November 1922. Figures for the intervening years showing the increasing demand for Atwater Kent sets, are:

1922-1923	.....	6,628
1923-1924	.....	58,927
1924-1925	.....	175,461
1925-1926	.....	331,208
1926-1927	.....	600,000

A. Atwater Kent.



(Fig. Q60) The Atwater Kent "Model 10B," a very early "breadboard" receiver. The circuit is quite simple, and the controls numerous. It is designed for storage-battery tubes, and has potentiometer R.F. control. It may be readily altered to use a power tube.

LAFAYETTE, INDIANA

MEET

JULY 17

Change Grid Leak for DX Reception

During the past few years, many radio sets have been designed more or less for local reception. In order to avoid distortion on powerful local stations, grid leaks of 2 megohms have become almost standard practice. Yet when dealing with weak signals, this value is entirely too low. In tuning in on distant signals which will be available on cleared channels, higher grid leak values will be required. Furthermore, the fluctuations or noises which have been caused by defective grid leaks and which have gone by more or less unnoticed in "local" reception, will loom up big in the background of DX reception.

For those interested in long-distance reception, the simplest step is to secure the 2, 4, 6 and 9 megohm grid leaks, and to be ready to try these values on distant signals.

Filament Control for Shielded Grid Tube

The Radiall Company, 50 Franklin St., New York City, maker of "Amperites" is now making a filament control known as No. 662 designed to be used with the new shielded grid tube. This unit will also handle the "20" type of tube on 6-volts. The intended retail price is \$1.10 complete with mounting.—Radio Retailing, February, 1928.



Pat. Applied for

Serial No. 375,581

The Aerial of Tomorrow

Just as the rising sun is the dawning of a new day, the WELLSTON GOLD TEST AERIAL is the beginning of improved radio reception.

Wellston Gold Test Aerial, the wonder aerial of tomorrow, was built to take the place of all present aerials; and it has more than accomplished its purpose.

Wellston Gold Test Aerial

has a capacity equivalent to 54 feet of aerial wire, 50 feet in the air, and contains gold-plated wire. This little wonder filtered aerial will improve radio reception on most sets, as it helps to eliminate many noises that are troublesome to radio enthusiasts.

This small compact aerial (being but 2 1/2 by 5 inches in size) is small enough to be placed anywhere. It is absolutely non-directional, non-corrosive, will not wear out, and never needs to be replaced. Does not connect into a light socket, therefore there is no AC hum or noise. The Wellston Gold Test Aerial eliminates all lightning hazards. Not fully efficient on battery sets.

For Sale by All Leading
Radio Dealers Everywhere

Price, \$2.50

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every time. Quantity
brought the price down
while the quality went
up. Research made them
better—longer-lived—
lower in cost to operate.
The best is the cheapest
first and last and always.



Radiotron UX-199
is the standard of
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