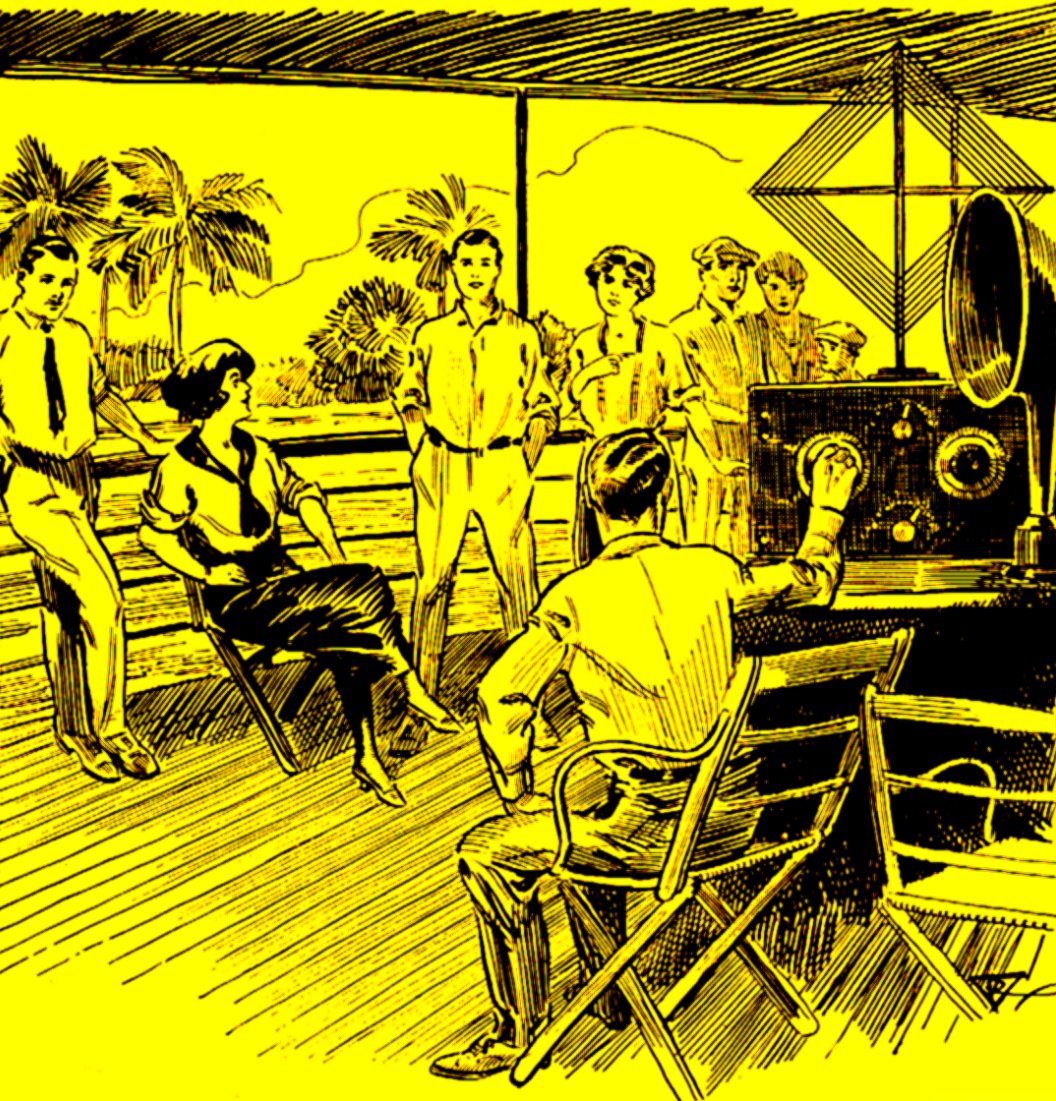


Indiana Historical Radio Society
BULLETIN

Vol. 3

October 1974

No. 3



news roundup

FRED PROHL (Indianapolis, IN) now has a pair of Baldwin Type C phones and a pair of Murdock #56 phones added to his collection. Fred also added some 215A tubes (boxed) and a Beede watch case battery test voltmeter.

RALPH MUCHOW (Elgin, IL) has added a home-brew set to his collection. This Super is built in a plate glass cabinet with a mirror for the base.

SERGE KRAUSS (Elkhart, IN) found a Ferron Detector complete with marble base at a flea market.

GARY A. VIERK (Lafayette, IN) picked up an AK-9 at a local auction along with a Model R horn less base.

ROSS SMITH (Elkhart, IN) recently returned from a vacation in Colorado. He visited several members and managed to bring back a Mesco #6 Drycell.

GEORGE HAUSSKE (Wheaton, IL) has found an Oriole Model 7 5-tube neotrodyne by W. K. Electric Co. of Kenosha, WI. and a Frost Loose Coupler.

MARSHALL HOWENSTEIN (Lafayette, IN) found one of the very earliest telegraph sounders in good condition.

WARREN JOHNSON (Fort Wayne, IN) found a rare Marconi Spherical Audion.

Information in this column can be valuable to you. Other members might add important data to your latest find should they read about it in this bulletin. Please drop me a line and it will be printed. Your Editor.

NOW \$25 FOR \$10

BEL-CANTO LOUD SPEAKER

Delivered Direct from Factory to You on receipt of only \$10.

BEL-CANTO MFG. CO., INC.

Bensel-Bonia Co., Inc.
417 E. 34th ST.

Tel. Vanderbilt 8959
NEW YORK CITY

SPRING MEET AT FORT WAYNE A SUCCESS

On May 11, the Community Hall of Southtown Mall in Fort Wayne came to life. Events of the day proved very interesting. Julian Stark headed the horn speaker contest. An old radio program was fed into each speaker. Three members judged the speakers on tone quality as the audience listened. First place went to a Baldwin owned by Ross Smith. The second event was the radio contest handled by Warren Johnson. "Three tubes or less" was the requirement. A one-tube Tuska Model 224 owned by Leo Gibbs was the winner.

A large auction was the feature of the day. About 50 persons participated in this event. Chairman of the meet Del Barrett, said the search for equipment for this event begins a year in advance.

Bags of radio equipment were sold for one dollar each. They went like hot cakes and helped pay for the event. It was a novel idea and a good buy for only a dollar. Again displays of equipment were numerous and added to the nostalgia of the program.



Members including Ross Smith and Don Johnston.

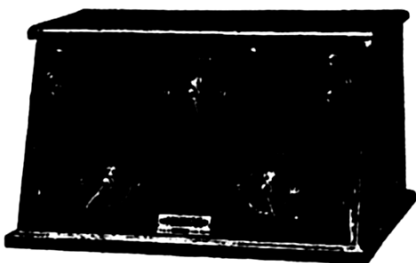
MICHIGAN MIDGET

The Sensation of Radio



No. 10 Detector

\$27



No. 11 Amplifier

\$30

NEVER before have such quality sets been offered at anything like the price of the Radio Midget (both Detector Unit and Amplifier Unit).

Distance
Clearness
Selectivity

These three features stand out in the Michigan Midget and have truly made it "The Sensation of Radio." The quality of the materials and workmanship is the best and the engineering skill of design has made the Michigan Midget the long distance wonder.

Here is a set that tunes out local stations and brings in distant stations—clear and loud.

Go where you may—look over all the sets offered and then you will be more convinced than ever that there is nothing on the market to equal the Michigan Midget.

*Send for catalog of other Michigan
Quality Radio Products*

MICHIGAN RADIO CORPORATION

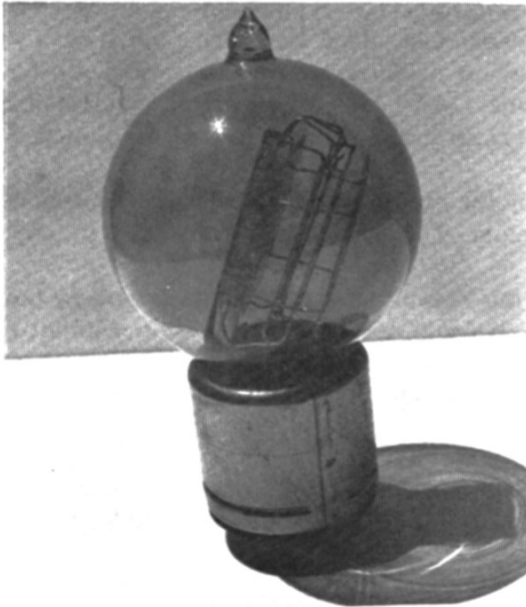
GRAND RAPIDS MICHIGAN

A VT-2 FROM A DIFFERENT GARAGE

by

Robert G. Middleton

Everyone is familiar with the conventional VT-2. However, there is also an unconventional VT-2 that you might run into. As shown in the photo, its electrodes are positioned at an angle of 20° from vertical. This construction is similar to that of the Marconi KL1 valve. Most of the early English tubes had horizontally mounted electrodes, whereas the majority of American tubes used vertically mounted electrodes. However, an occasional tube was designed with electrodes mounted at an intermediate angle. It would seem that such tubes were intended for use in equipment with sockets installed at a corresponding angle.



**The Antique Wireless Association
Regional Conference
and
The Indiana Historical Radio Society
Summer Meet**

The first IHRS - AWA Regional Conference was held Saturday, June 22, at Purdue University in West Lafayette, Indiana. The program centered around displays of early radio equipment assembled to represent a Radio Show of the 1920's. Individual booths of Marconi, Zenith, Crosley, RCA, AK, Deforest, Kennedy and early landline equipment were open for viewing by the members. Equipment was supplied by IHRS members. The Oldtime Radio Contest brought in interesting exhibits also.

Rain plagued the day, but this was soon forgotten as members became preoccupied with the events of the day. Bruce Kelley presented two interesting programs including a slide show on the life of Marconi and a session on telegraph keys. Ross Smith gave a 20 minute slide show on The Radiola Story of the 1920's. An unscheduled program also added to the days activities. Two officers of the Gray Museum of Wireless gave a slide show on Powell Crosley Jr. They brought some of Crosley's original equipment that aroused his interest in radio and led to the Crosley Corporation.

The theme of the event was heightened by the presence of a huge photo of Marconi - The Man and His Wireless.

An event of this nature can only be characterized by the people who participated. It could not have been possible without the efforts of many dedicated individuals interested in the preservation of historical radio equipment and the fellowship through the IHRS and the AWA.

Contest winners included Ross Smith, Leo Gibbs, Warren Johnson, Mc Whorter, Ralph Muchow, J.W. Johnson, Ed Taylor and J. Benne.

**MATERIAL FOR THE NEXT BULLETIN MUST BE SUBMITTED
BY NOVEMBER 25**

MARCONI BANQUET

The Marconi banquet held in the west faculty lounge of the Purdue Memorial Union building on Saturday evening, June 22nd culminated a successful day of displays of early radios, historic film lectures, much exchange of old gear, shop talk and good fellowship. The facilities of Purdue are ideal for holding such a convention.

The local committee consisting of Gary Vierk, chairman, Glen Rogers, James Fred and Marshall Howenstein had done its homework so well that everything went off like clockwork.

The three by four foot enlargement of Marconi, which was furnished by Glen Rogers, dominated the background of the banquet room behind the speaker's lecturn. Glen Rogers acted as master of ceremonies and he introduced several distinguished guests from out-of-state.

The delicious meal was served buffet style and table decorations, supplied by Mrs. Rogers and Mrs. Howenstein, consisted of home grown choice roses, coralbells and white columbines. The entire scene was enhanced by live music furnished by two attractive girls, Shirley Yeh, violin and her sister Sophia at the piano.



Bruce Kelley was at his best in telling about his experiences as a collector over the years, and he ended his talk by describing the new museum of AWA to be opened next year at Holcomb, N.Y.

The picture of the head table, taken by Marshall, shows Bruce Kelley and Mrs. Kelley, Jim Thomas, president of IHRS and Mrs. Thomas, Glen Rogers and Mrs. Rogers.

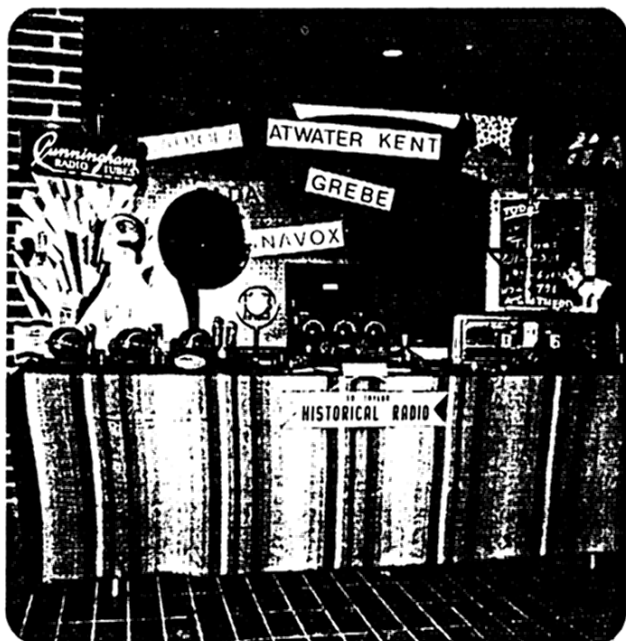
**The Antique Wireless Association
Regional Conference
and
The Indiana Historical Radio Society
Summer Meet**

MARCONI

THE MAN AND HIS WIRELESS

The following persons attended the IHRS-AWA Regional Conference on June 22 at Purdue University in Lafayette, Indiana.

KEITH HANSELMAN	MR. & MRS. JIM THOMAS
RUSSEL C. HANSELMAN	AL JOCHEM
MARSHALL HOWENSTEIN	AL GERMOND
ROBERT STAPLEFORD	JULIAN J. STARK
LEO. L. GIBBS	DEL BARRETT
KENT LAWER	MR. & MRS. THOMAS TURNER
JOHN TSCHOPP	JOHN BRUNING
ARTHUR W. ASELTINE	ELMER H. SCHUBERT
MR. & MRS. JERRY BEAUDINE	FRED C. PROHL
RALPH MUCHOW	LEE HAGEY
MR. & MRS. ROSS SMITH	MR. & MRS. H.C. STODDARD
KENNETH L. MC INTOSH	MR. & MRS. G. HAUSSKE
MR. & MRS. JAMES A. FRED	JOSEPH E. TRAUB
PETER SCHOCK	GARY D. GORDON
JOHN W. JOHNSON	J. CLIFFORD DOWNS
MR. & MRS. RICHARD T. AMMON	MR. & MRS. GLEN ROGERS
WILLIAM MC GUIRE	JAMES T. POGUE
JOSEPH BENNE & SON	ROBERT E. SHANK
A. J. SCHWARZ	T. LUCUS
E. A. SMITH	WILLIAM J. HALLIGAN
STEVAN W. HAMILTON	MR. & MRS. WALTER HOLLIDAY
JOE DURAY	MR. & MRS. GLEN ROGERS
MR. & MRS. HUBERT HOGAN	MR. & MRS. BRUCE KELLEY
ALVA COLLINS	MR. & MRS. GARY A. VIERK
MR. & MRS. SERGE KRAUSS	ED E. TAYLOR
WARREN JOHNSON	LLOYD WILLIAMS
MR. & MRS. STANLEY JOHNSON	MIKE WHITE
MR. & MRS. DON JOHNSTON	



ED TAYLOR recently exhibited some of his antique radios at the "Collectors Show Off" which was held at Lafayette Square Mall in Indianapolis. Old radio programs were played through a horn speaker via cassette tape. Approximately 500 persons visited his booth during the one day show. Of interest to many Hoosiers were the Orchestron Horn, Tri-State Headphones, and Isehour Crystal Set, all of which were made in Indianapolis. One teen-ager spotting an 01-A remarked to his buddy, "I know what that is. It's a radio tube."

OHM'S LAW DEBATED

*"Will you come and take me home?"
Said the Ampere to the Ω ;
"No! For you I've no assistance;
If you'll get a little volt
To come and 'take a holt'
Then perhaps you'll get by my-~~WAAAA~~*

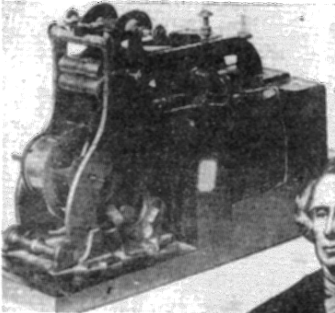
Call Letters
W. L. S.
 Signify
The World's Largest Store
 Wave Length 345 Meters

"What hath God wrought?"

His name was Morse. Samuel Finley Breeze Morse, painter of portraits and sometimes dabbler in electronics.

He was tall, thin and 52 years of age with sandy colored hair well on its way to being grey. He was also greatly depressed. Slowly he sipped his coffee and picked at his breakfast. Sadly he mulled over the events of the past few weeks and the struggle by him and his friends to get a bill through Congress which would prove once and for all the value of his invention. The bill would appropriate \$30,000 "to test the practicability of establishing a system of electro-magnetic telegraphs by the U.S." The bill had squeaked through the House by a vote of 89 to 83 and had gone to the Senate with only eight days remaining before Congress would adjourn. Although there were 140 other bills ahead of his on the Senate docket, he had clung tenaciously to the hope that somehow

he would be successful. Yesterday had been the final day of the session, and he had stayed in the Senate Gallery late into the evening, long after the lamps which illuminated the chambers had been lit.



Morse's 1st telegraph receiving instrument



Samuel F. B. Morse at 53.



Realizing finally that it was hopeless to think they would ever get to his bill, Morse had given up in despair and returned to his hotel room. His personal money was almost entirely gone. His dream had been shattered. Once breakfast was over he must make arrangements to return home to New York.

"Sir", the servant's voice interrupted his unhappy thoughts, "there is a young lady waiting in the parlor to speak with you."

Although not exactly relishing the prospect of having company, he was pleased to see that it was young Annie Ellsworth, the 16 year old daughter of his friend Henry L. Ellsworth, the Commissioner of Patents. Morse and Ellsworth had been good friends since their college days together at Yale, and Henry had been an important ally in the struggle to obtain government support for Morse's telegraph.

"What hath God wrought?"

Hastening toward him Annie said, "I have come to congratulate you.

"Indeed, for what?"

"On the passage of your bill."

"Oh, no, my young friend, you are mistaken. I was in the Senate Chamber quite late last evening and my Senatorial friends assured me there was no chance for me.

"But," she replied gleefully, "it is you who are mistaken! Father was there at the adjournment at midnight and saw President Tyler put his name to your bill. Am I the first to tell you?"

Could it be true? Yes, it must be! Annie would never play such a cruel joke. The news was so unexpected that for a few moments he could not speak. Finally he replied, "Yes, Annie, you are the first to inform me. And now I am going to make a promise. The first dispatch on the completed line from Washington to Baltimore shall be yours."

"I shall hold you to that promise," she said, smiling as she turned to leave.



Annie Ellsworth, age 17

And thus it was that on the morning of May 24, 1844, only slightly more than a year later Annie Ellsworth happened to be present in the Supreme Court Chambers to help make history. Near the center of the court room, which was then located in the Capitol Building, sat a strange-looking object--Morse's telegraph. She knew that this instrument was connected by wires to an identical instrument in the Baltimore and Ohio Railroad station in Baltimore--over 40 miles away!

“What hath God wrought?” Continued

Clustered around the table in Washington were her friend Mr. Morse and a number of other dignified individuals, some smiling and obviously friendly; others just as obviously skeptical. With a stir of excitement Annie recognized Henry Clay, who had recently launched his campaign for the presidency and nearby was Dolly Madison, wife of James Madison, the fourth president of the United States.

The group became hushed as Morse seated himself at the table and quietly asked Annie what the first message was to be. She handed him a slip of paper on which was written a passage from the Bible suggested by her mother: “What hath God wrought?” (Numbers 23:23). Quickly Morse sent the words using the dot and dash code which bears his name. It was received in Baltimore and repeated back. As the words were de-coded in Washington, the room erupted with cheers. The age of electronic communications had been born! Other inventions were to follow rapidly--the telephone, teletype, wireless radio, television, and more. But few if any people in the room that morning realized how important electronic communication would become in the future. When Morse later offered to sell his telegraph to the government for \$100,000, it was rejected as being merely a scientific toy that would never be self-supporting.

What happened to Annie Ellsworth, the young girl in this drama? Her older brother, Henry E. Ellsworth, had moved west to Lafayette, Indiana, in about 1837. Like many later arrivals, Henry E. became enthusiastic about the potential of the area and launched a campaign to persuade Easterners to buy land here. Among those so persuaded was Annie's father who moved his family here from Washington in 1845, one year after the historic event described above.

A family home was built on the northwest corner of South and Seventh streets. (In later years this structure was enlarged and was known as the Stockton House.) In a short time, Ellsworth and his son were among the largest land-owners in the area, owning literally thousands of acres in Tippecanoe, Benton, Warren and Newton counties in Indiana and in Illinois.

Back East, Ellsworth had known a brilliant young law student whom he persuaded to come to Lafayette to assist with the management of the vast Ellsworth landholdings. This young man was Roswell C. Smith who lived in the Ellsworth home as a member of the household. In time, a romance developed between Annie and Roswell and they were married on July 5, 1851.

Almost immediately, Smith left for the East to finish his education, earning his law degree from Brown University in 1852. This accomplished, he returned to Lafayette to practice law.

Annie and Roswell became the parents of two daughters, one of whom, Julia, married the famous American painter George Inness, Jr. Annie gained a reputation as a cultured and warm individual who entertained many of the literary celebrities of the time in her home, including Edward Eggleston, author of *The Hoosier Schoolmaster* and Harriett Beecher Stowe, author of *Uncle Tom's Cabin*. On January 21, 1900, Annie Ellsworth Smith passed away at the age of 73.

As a sidelight to this story, during World War II it was necessary for the telegraph companies to hire girls to fill the positions formerly held by messenger boys. Eventually the question was raised as to who was the first messenger girl. As is often wont to happen with matters of such importance, a small controversy developed. Then in May of 1944 the U.S. government issued a 3¢ commemorative stamp honoring the centennial of Morse's invention. The research done prior to the issuance of this stamp proved that Annie had not only composed the first message; she had also *delivered* it (to Morse in the court chamber). Thus Annie Ellsworth was the first telegraph messenger girl, thus ending the controversy.

by John M. Harris, Director, Tippecanoe
County Historical Museum, Lafayette,
Indiana

The Psalm of Radio

Radio is my hobby; I shall want no other.
It maketh me to stay home at night.
It leadeth me into much trouble.
It draweth on my purse.
I go into paths of debt for its name's sake.
Yea, though I understand it perfectly, it will not oscillate.
Its concerts and speeches, they comfort me.
Yet it will not work in the presence of mine enemies.
I anoint the coils with shellac;
But the tube spilleth over.
Surely the radio bug won't follow me all the days of my
life,
For if it does I will dwell in the house of poverty forever.

RADIO CRYSTALS

Crystals are formed in many ways, by natural evaporation, volcanic fusion, and the electric furnace process.

Carborundum and silicon are found in electric furnaces while important minerals such as Galena, Pyrites and Bornite are found in the natural state in veins.

There is no standard formula for these compositions and each individual specimen makes either a good or poor rectifier. Each must be tested for satisfactory response.

GALENA: (PbS) Also called Lead Sulphide, Lead Ore, or Lead Crystal.

Found in Rocky mountains, England, and Spain.

Galena is the most popular and sensitive material for radio, but is easily knocked out of adjustment. A light pressure with a brass or german silver wire as a cat-whisker proves most satisfactory.

GALENA: (steel) PbS) & Ag)

Also called Argentite. Resembles a piece of broken steel.

Contains up to 1% of silver. For radio work it is nearly as sensitive as galena but has many more sensitive spots and is not so easily knocked out of adjustment. A very light german silver wire cat-whisker is excellent. This mineral can be used in semi-fixed detectors.

CARBORUNDUM (SiC)

Also called Silica Carbide, Crystalom. Is an electric furnace product made by heating sand, sawdust, and coke, to a white heat. Its best use is with a low stabilizing voltage of 1½ to 3 volts. This is a very stable detector and should be used with a heavy steel contact, with up to five pounds of pressure on the point.

IRON PYRITES (FeS₂)

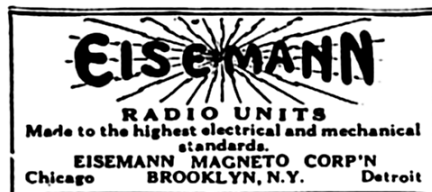
Also called "Fools Gold", Disulfide of Iron, Marcasite.

Found in veins in California, Colorado, Georgia, New York and Virginia. For radio work it is not so sensitive as galena but much more stable. Medium pressure with a german silver or gold wire is best. This mineral is used in many fixed detectors.

COPPER PYRITES (CuFeS₂)

Also called "Peacock Ore", Chalcopyrites. Found in Arizona, California, Colorado, Georgia, Montana, Utah. For radio work can be used with Zincite in a Perikon circuit. Is very stable, but has very poor sensitivity.

submitted by Robert G. Middleton



CROSLEY

CROSLEY PUP Regenerative Receiver

Manufactured under license under Armstrong U. S. Patent No. 1,113,149, October 6, 1914, for radio amateurs for use in radio amateur stations; for radio experimenters and scientific schools or universities, for use in experimental and scientific school or university radio stations.

Manufactured by
THE CROSLEY RADIO CORPORATION
Powel Crosley, Jr., President
Cincinnati, Ohio.

This receiver is composed of standard Crosley parts, made by The Crosley Radio Corporation. On most of these parts there are patents or patents pending.

GUARANTEE

This instrument is guaranteed for 30 days from date of purchase against faulty material and workmanship. Should your dealer be unable to make repairs he will return it through his jobber. Within this period repairs will be made without charge provided the set has not been abused, changed or tampered with.

This copy is made from an actual base of a Crosley Pup. If the information is missing from your Pup this could be reproduced and glued on the bottom. This was contributed by Glen Rogers.



Radio

Telephone & Telegraph
Apparatus of Merit

Department 67

Young & McCombs
L. P. BEST PRES.
ROCK ISLAND, ILL.

DISTRIBUTORS FOR

DeForest Radio Telephone & Telegraph Co.

Wm. J. Murdock Co.

Amrad Products

Perfection Radio Co.

and all prominent manufacturers

IMMEDIATE DELIVERIES



DISCOVER A NEW HOBBY !

Collecting old-time wireless and radio is fascinating, fun and a challenge. Vintage Radio opens the door for you.

VINTAGE RADIO, 1887-1929

Brings you pioneer days of wireless and radio in words and 1,000 photos. Collector's and historian's bible. Hard cover or handbook; 263 pages.

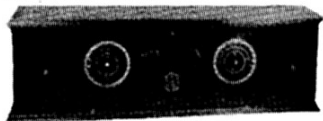
RADIO COLLECTOR'S GUIDE, 1921-1932

The collector's data book, with 50,000 facts on 4,000 radio models made by 1,100 manufacturers; 264 pages.



1927 RADIO ENCYCLOPEDIA

Your technical reference book on wireless and early radio. Reprint of S. Gernsback's priceless illustrated classic. Hard cover or handbook; 175 pages.



SEND TODAY to Vintage Radio,
Box 2045, Palos Verdes Peninsula, Calif., 90274

Vintage Radio, hard cover	\$ 6.95
Vintage Radio, handbook	4.95
Radio Collector's Guide	3.95
Radio Encyclopedia, hard cover	12.95
Radio Encyclopedia, handbook	9.95

Postage Paid. California residents add 5% Tax.

ENJOY THE OLD DAYS !

THE NEXT BULLETIN WILL BE PUBLISHED IN DECEMBER
REPRODUCTION OF THIS BULLETIN OR ITS CONTENTS IS
PROHIBITED UNLESS AUTHORIZED BY THE EDITOR

S E L E C T I V I T Y S E L L S S E T S



Listening to Your
Favorite Radio Program
Unmolested by Inter-
ference from Competing
Programs

OFFICERS

President	JIM THOMAS, 915 S. Washington Street, Kokomo, IN 46901
Vice President	FRED C. PROHL, 7257 Murphy Dr., Indianapolis, IN 46256
Secretary	ROSS SMITH, 1133 Strong Avenue, Elkhart, IN 46514
Treasurer	E. E. TAYLOR, 245 N. Oakland Ave., Indianapolis, IN 46201
Historian	JULIAN STARK, 3230 E. Maplegrove, Fort Wayne, IN 46805
Editor	GARY A. VIERK, 2505 Kickapoo Drive, Lafayette, IN 47905
Membership Committee	MARSHALL HOWENSTEIN, 807 Elm Dr., W. Lafayette, IN 47906 DELBERT BARRETT, 1517 Pacific Dr., Fort Wayne, IN 46819

WELCOME TO NEW MEMBERS

FIN STEWART, 673 Great Western Highway, Faulconbridge, N.S.W.
2776 Australia.

BERT KATZ, 8520 Fernald, Morton Grove, IL. 60053.

WM. T. MC GUIRE, 2310 Taft St., Toledo, OH 43616.

JOHN W. JOHNSON, 310 S. Grand, Fowlerville, MI 48836.



MUSIC EVERYWHERE — Tra-la-la-la

FRIENDLY EXCHANGE

WANTED - Radiola (G.E.) AR 1300 Tuner and crystal Detector unit for my matching amplifier. Trade or cash. Also need T.V. cabinet top for early RCA 630TS, first 10" post-war model, or a complete cabinet. Ross Smith, 1133 Strong, Elkhart, IN 46514.

LEAD - AK Model H horn speaker, Thorola Jr. Model 12 speaker and Telephone 62 speaker, all in working order. Write J.R. Ramsey, 1627 Wells Drive, Columbus, GA 31906.

TRADE/SALE - Radiola 100A speaker, cabinet for Crosley Band Box & 51 land an Edison (National) Mazda Lamp Display with various lamps. Jim Thomas, 915 S. Washington, Kokomo, IN 46901.

WANTED - Base and driver for an AK Model R Horn. Gary A. Vierk, 2505 Kickapoo Drive, Lafayette, IN 47905.

WANTED - Several 209A Sockets for the WE 215A tubes, Or a battery receiver that uses the 215A.

FOR SALE AND TRADE - Deforest D-10, parts for a 210 TNT transmitter (See W. I. Orr, W6SAI article, CQ Jan 73). Pilot radios, parts, literature; Have for trade Priess Straight 8 with loop, two Acmelexs and other sets. A.C. Stoddard W8KLN, 1502 Briarwood Road, Lansing, MI 48917.

WANTED - Unusual antique radio tubes, historical types of incandescent lamps, and early arc lamps. Please describe fully and state price in first letter. Robert G. Middleton, P.O. Box 1061, Santa Cruz, CA 95061.

TRADE - Three new boxed Federal #32 & 35 coils. Want several good tipped 201As. Geo. Hausske, 1922 E. Indiana, Wheaton, IL 60187.

RADECO SAFETY FUSES

Complete Tube Protection
Slips on the Filament Terminal
"A fuse that doesn't go on the terminal doesn't
protect the set."

50 CENTS EACH

Write for Booklet

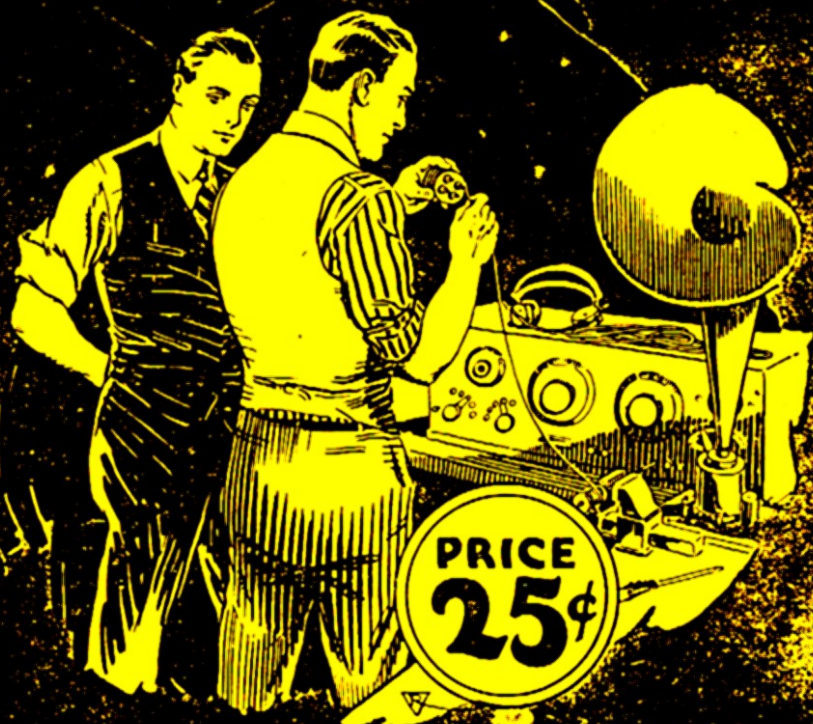
RADIO EQUIPMENT COMPANY
20 STUART STREET BOSTON, MASS

THE EXPERIMENTER'S LIBRARY NO. 4.

RADIO FREQUENCY AMPLIFIERS AND HOW TO MAKE THEM

BY

JOHN M. AVERY



PRICE
25¢

THE E.I.C.O.

233 FULTON ST., NEW YORK CITY