

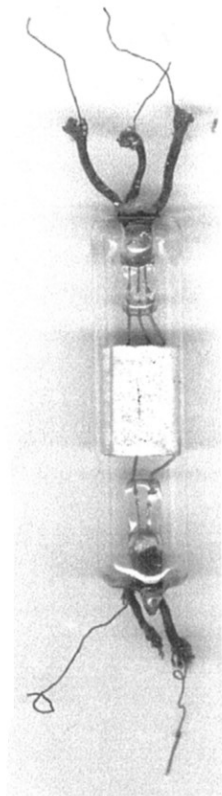


Vol. 31

Spring, 2002

No 1

What is it?



**A Bootleg
Tube!**

See inside for more details



Officers

(revised 12/4/01)

Responsibilities

Terry Garl, President

54980 Drive

Osceola, Indiana 46902

(219) 679-4280 e-mail: teg53oscin@aol.com

Activities, Business,
Administration, & Publicity

Bill Morris, Vice President

3545 Rock Maple Drive

Indianapolis, Indiana 46235

(317) 895-1334 e-mail: bmmorris@mw.net

Sites and Dates of Meets

Fred Prohl, Secretary, Treasurer

3129 Lanam Ridge Road

Nashville, Indiana 47448

(812) 988-1761

e-mail: indianahistoricalradio@att.net

NOTE

Applications and Correspondence
Dues, Financial, and Address
Change. Please Notify
Immediately of Change of Address.

Edward Dupart, Editor

1441 N. Church St. - Cadiz

New Castle, Indiana 47362-9172

(765) 533-6272 e-mail: edupart3@hrtc.net

News, Articles, Photos,
Radio-Ads

Dr. Ed Taylor, Historian

245 North Oakland Avenue

Indianapolis, Indiana 46201-3360

(317) 638-1641

Donations & Scrapbook Material

Fred Schuitz

1246 Lincolnway South

Ligonier, Indiana 46767

(219) 894-3092 e-mail: olradio@ligtel.com

IHRS Museum Curator

Bulletin Deadlines: News, Articles & Radio Ads, 2/15, 5/15, 8/15, 11/15

IHRS e-mail Web site address: www.indianahistoricalradio.org

The INDIANA HISTORICAL RADIO SOCIETY is a non-profit organization founded in 1971. Annual membership dues are \$15.00/year or 2 years/\$25.00, which includes the quarterly IHRS "BULLETIN". Radio-Ads are free to all members. Please include a S.A.S.E. when requesting information. Send applications for membership and renewals to Fred Prohl, our treasurer as noted above.

IHRS ACTIVITIES for 2002. our 31th YEAR

IHRS SPRING MEET – MAY 10-11, 2002

Our Thirty First Annual Spring Meet

Greenfield, Indiana. Great indoor/outdoor space at the Hancock County Fairgrounds. South from I-70 at State Road 9, exit 104, two blocks North of US-40, one mile East of SR-9.

PLEASE NOTE! THE INDY 500 TIME TRIALS ARE SCHEDULED THE SAME WEEKEND!

MOTEL ROOMS ARE GOING FAST!

As of this date, 3/18/02, the following motels had available rooms (all located south off I-70 on SR-9). No IHRS blocks reserved:

Comfort Inn, 178 Martindale Dr,
317-467-9999 or 1-800-228-5150

Holiday Inn Express, 2070 North State Street,
317-467-0999

Super 8, 2100 North State St.
317-462-8899 or 1-800-800-8000

Dollar Inn, 2180 North State St.
317-457-0067

The Hancock County Fairgrounds provides water & electric hookup for overnight campers at a cost of \$10.00 per night.

Friday May 10

4:00 pm to 8:00 pm, Swap n' Sell - Indoor set up only on Friday. The 4H building provides ample indoor space with tables. There is a large bay door for easy entry. Pull up your vehicle and unload for a busy Friday and Saturday. We will lock the building at 8:00 PM Friday eve.

Saturday May 11

7:00 am Radio Swap n' Sell.

Indoor and outdoor setup.

9:00 am Contest and display set up.

Contest judging at 10:00 am

11:30 am Awards Luncheon in the 4H building (\$3.00 per person)

12:30 pm Vintage Radio Repair and Restoration Seminars

Old Equipment Contest categories:

1. Indiana Made Radio
2. Battery Radio, 1920's
3. AC Wood Table Radios of the 30's and 40's.

This will be our "Context" category. Judging includes how well the radio is displayed in a 30's or 40's setting.

4. AM AC/DC Plastic Table Radios of the 1950's
5. Open Radio Related You Decide!

Operating Radio Display categories:

1. 1920's Battery Radio with a speaker or headphones consistent with the radio design.
2. 1930's AC Radio

Display of radio or related equipment.

Want to show off a set, generate a discussion? Space will be available to place your equipment on display.

Registration fee is \$5.00 per family for both days. One Swap n' Sell space (indoor or outdoor) is \$10.00 each for both days. Saturday awards lunch is \$3.00 per person. Send check for space reservation, payable to IHRS, to Fred Prohl, 3129 Lanam Ridge Road, Nashville, IN 47448

Info: Glenn Fitch (765) 565-6911 glenn.fitch@cnz.com or
Fred Prohl (812) 988-1761 fprohl@att.net

Update information at: indianahistoricalradio.org

MSARC ACTIVITIES

13-April MSARC Spring Meet, Henderson, KY

Info: Joe Zahnen, 423-690-5833, zahnenj@esper.com

Days Inn Motel. Info: Jim Church, (812) 867-0721.

Contest categories:

Home-brew Sets & Kits (tube)

Transistor battery sets (non-novelty)

Table Sets, wood, tube (AC-AC/DC) (non-cathedral/tombstone)

Consoles (AC-AC/DC)

Speakers

Radio MFG & Broadcasters in MSARC Area

Ugly Radio

Miscellaneous

20-July MSARC Summer Meet, Louisville, KY. Derby City Antique Mall.

Info: Allan Ferris, (502) 543-8233. Contest categories:

Crystal Sets (home brew)

Cathedral Sets, wood (AC-AC/DC)

Table sets, plastic or metal, tube (AC-AC/DC) (no catalin or wood)

Phonographs (no wind-up) & tape/wire recorders (tube, pre 1966)

Accessories

Radio MFG & Broadcasters in MSARC Area

Ugly Radio

Miscellaneous

11-Nov. MSARC Fall Meet, Lexington, KY

Central Kentucky Vocational Technical School

Info: Joe Vittow, (502) 839-5444. Contest categories:

Battery sets pre-1931 (all styles)
Table sets, Repwood, tube (AC-AC/DC)
Television sets, tube or transistor
Novelty sets, tube or transistor
Microphones
Radio MFG & Broadcasters in MSARC Area ~Ugly Radio
Miscellaneous

NARC ACTIVITIES - 2002

For NARC meet info contact: Jim Thompson, 612-822-4000 or Kip Wallace, 612-544-2547, KipWallace@dl-inc.com

ARCI ACTIVITIES - 2002

All meets at Elgin, IL, RAMADA INN, 345 River Rd. 847-695-5000.

Info: Tom Klienschmidt 847-255-8128 or Art Bilski 630-739-1060,
OLDRADIO@NTSOURCE.COM

Comments from the Editor

Ed Dupart

I appreciate the articles and pictures that have been sent to me. Keep it up. Remember, this is your Bulletin and with your contributions this publication can be even better!

I will welcome all suggestions for improving the Bulletin.

Please use e-mail or regular postal mail for sending articles and information to me. If you want to send me articles on a 3 1/2 or 5 1/4 floppy, that's great, too. I can work with virtually any word-processing program for DOS or windows designed for IBM compatables. Please send computerized pictures in a BMP, JPEG or TIFF format. Pictures can be incorporated with the article done in Microsoft Word or WordPerfect. If you don't have your pictures computerized, send the photo to me, preferably 35mm. Polaroids lose detail when I scan them. If you want your pictures and articles returned to you, please let me know. Sorry, I'm not set up for Mac or Apple. Typewritten articles are fine, too, because I can scan those into my computer.

I will be looking for pictures of unusual radios from inexpensive to expensive radios that you normally don't see at shows for a picture gallery in the Bulletin.

Send me a photo of your favorite radio and I will put it in a place for favorite radios.

In the next issue I will be eliminating ads that have run for more than two issues. **Let me know if...**you want your ad to continue running. ...you have additions or deletions to your ad. ... I make a mistake, so I can correct it.

Ed Dupart

IHRS Business Meeting Minutes

The February, 2002 Winter Meeting Secretary/Treasurers Report

The IHRS officers met at 10:00 am to discuss the May 2002 Spring meet. The officers selected Fred Prohl as the meet chairman and roughed out a basic plan for May 10 and 11, 2002. (See the IHRS Activities announcement in the front of this Bulletin for the meet schedule.)

We had 77 paid registrants and 33 set up tables purchased at the February 2002 meeting.

The meet expense/income was as follows:

INCOME	EXPENSE
\$ 385.00 registration	\$ 603.75 room cost
\$ 165.00 set up tables	\$ 84.32 coffee expense
\$ 20.86 donation jar	\$ 30.00 doughnuts
	\$ 13.50 badges
\$ 570.86 total income	\$ 731.57 total expense

Resulting in an expense of \$ 160.71

Current checking account balance is \$6422.00

Submitted by Fred Prohl, IHRS Secretary/Treasurer

NEW WEBSITE!

alsantiqueradios.com

Check out the new web site of IHRS member Alex Whitaker. Alex, a member of our organization for over 10 years has served as secretary, vice president and president. His collecting interest centers on Zenith and E. H. Scott. However, like many avid collectors, Al is interested and knowledgeable in all aspects of collecting, documenting, and restoring vintage radio. His web site displays some of his radios with high-resolution detail. Professionally presented, the pages provide a beginning for future development.

In addition to showing off good-looking Zenith's, Al's intent for the web site is to let the world know he likes to buy, sell, and service vintage radios. His service specialty is pre-WWII Zenith and E. H. Scott, and 1930 through 1955 automobile radios.

So at your next opportunity take a look and bookmark *alsantiqueradios.com*.

Fred Prohl for the *indianahistoricalradio.org*

In Memory of:

A brief obituary of Marshall was in the last Bulletin, but because of his involvement with the IHRS, I thought it appropriate to include two more obituaries, one giving a synopsis of his life, in this Bulletin. — The Editor

Marshall Howenstein, 100 one of the founding fathers of the IHRS.



Howenstein

Memorial service 2:30 p.m. Friday at Central Presbyterian Church, Lafayette. The Revs. David Roquemore and Guy Camp officiating. Burial in Grandview Cemetery, Lafayette. Surviving are nieces and nephews. Memorials to Westminster Foundation, 2741 N. Salisbury, West Lafayette, IN 47906. Soller-Baker Funeral Home in charge of arrangements.

Marshall Conyne Howenstein, 100, of 2741 N. Salisbury Street, WL, died at 2:45 p.m. Thursday, Nov. 29, 2001, in Westminster Village.

He was born July 17, 1901, in Goshen and had been a West Lafayette resident since 1935. He had been a resident of Westminster Village since 1976.

He attended public schools in Goshen. He taught violin for several years in Goshen, Elkhart and Warsaw and started the string instruction in Goshen schools as a special teacher before entering the DePauw Music School in 1927. He graduated from DePauw Music School in 1931 with a bachelor of music degree. He attended Butler University's Jordan College of Music and graduated with a master of music degree in 1955.

He married Helen Roth of Boonville July 19, 1942, and she died Feb. 21, 2001.

Mr. Howenstein was a band and orchestra director in the West Lafayette schools for 30 years, retiring in 1965.

He taught orchestra and strings in Frankfort from 1931 to 1935. He was a composer and arranger of numerous musical works.

He was past president and secretary of the music section of the Indiana State Teacher's Association, past president and was past president and charter member of the Indiana division of the American String Teachers Association. He was a charter member and one of the organizers of the Lafayette Symphony Orchestra, with which he played for 27 years. He was a charter member of Indiana Historical Radio Society

He was a 50-year member of Kiwanis International. He was affiliated with Phi Mu Alpha and Pi Kappa Lambda, national honorary musical fraternities. He was a member of Central Presbyterian Church for more than 50 years.
There are no immediate survivors.

News from the Museum

By: Fred Schultz

February News:

At this point in time we are still into our winter hours, being open every Saturday. Beginning May 1st we will be open every day except Sunday and Monday.

We are still waiting to hear from the FCC on our application for a low power FM station. We have a great location for the station donated by the Noble County community foundation. An 80ft tower has been donated by a local ham operator and we have many volunteers with broadcasting experience to assist in day to day operation. We will be located within 1/4 mile of 3 major highways. This is a great location for disseminating tourist information. The Ligonier telephone company has agreed to furnish us with a free telephone line to the local school system. This will be used to provide training in radio for the students.

Our working light bulb display and our DeForest display have both been updated with more items. Other items added to the Museum include an Atwater Kent model 9, rare tubes and tube boxes for this display.

March News:

The Indiana Historic Radio Museum, after being closed for two months for restoration will be going back to the regular hours starting March 1st.

Several new items have been added, including a rare Atwater Kent model 8 breadboard. A nice collection of radios have been donated to the museum by the Marshall Howenstein estate, including a Kennedy 220 with matching 525 amplifier, a Crosley Pup, an Atwater Kent model 10 breadboard and several other highly collectable radios and speakers.

Many items from the Ross Smith collection are now on display, most of these radios are unique with a large emphasis placed on early DeForest equipment. Some have won best of show at the AWA New York meet.

We are still in need of other items to round out the displays. A Bonzo would be nice to put with the Crosley radio and headphone display. If you have this or any other items to display/donate please contact me at 219-894-3779 or toll free numbers at 872-450-9695 or 866-588-0708 or olradio@ligtel.com

Fred Schultz Curator

Articles

An Early Bootleg Tube

By Edward Dupart

For years, actually decades, I have wanted a pre WWI vacuum tube and finally, I came across one of them, a 1915-1919 Cunningham AudioTron tube.¹ These are tubes you don't normally see at radio meets.

First, a little history. Lee DeForest invented his triode vacuum tube in 1906 and his first patent was in the same year, 1906, for a device that could amplify feeble electric currents. A second patent was applied for in 1907 for an improved grid.² This made him the sole source of his vacuum tube until about 1915, but he had to have the McCandless Co. of New York manufacture his tubes for him.² Because of patent disputes, triode tubes could not be manufactured or sold from 1916 onward, with the exception of the telephone company, who was exempt from the ban. WWI would soon have the United States involved and that would change things, but that's another story.

Elmer T. Cunningham is considered to be the first independent tube manufacturer, but because he made his tubes without being licensed, he is also considered the first bootleg manufacturer.³ He eventually ran into patent infringement problems with DeForest, and is probably the reason his tubes did not bear his name, but rather had AudioTron on them. Eventually, a settlement was agreed upon and he distributed tubes through RCA.⁴

The AudioTron varied in length from 3 - 3 1/2" and 5/8" to 3/4" in diameter with long wires coming out of it that could be connected to a panel for further connections.⁵ The filament was V shaped with the ability to use one side at a time, so when one side burned out, the other side could be used.

If you are interested in early vacuum tubes, I suggest you obtain the two books I used for this little article. Both books have a wealth of information and compliment each other.

¹ Gerald F. J. Tyne, *Saga of the Vacuum Tube* (Howard W. Sams & Co. 1977), p. 160

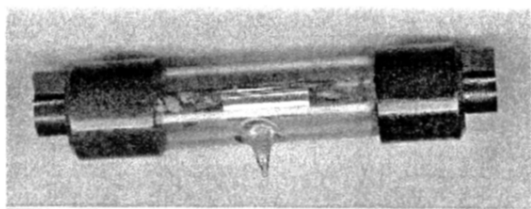
² John W. Stokes, *70 Years of Radio Tubes and Valves* (The Vestal Press Ltd. 1982), p. 7

³ Gerald F. J. Tyne, *Saga of the Vacuum Tube* (Howard W. Sams & Co. 1977), p. 331

⁴ John W. Stokes, *70 Years of Radio Tubes and Valves* (The Vestal Press Ltd. 1982), p. 26

⁵ Gerald F. J. Tyne, *Saga of the Vacuum Tube* (Howard W. Sams & Co. 1977), p. 161

Photo Gallery



Myers tube – another
bootleg tube from
about 1918-1924

Articles

Indiana Radio Manufacturers

Recently IHRS received a request from the Indiana State Museum for a list of pre 1950 Indiana radio manufacturers. As a response the following list was compiled from previous "Bulletin" articles and listings of Indiana Radio manufacturers. The list is grouped by decade of first appearance as an Indiana Radio manufacturer with columns identifying company name and location, model or brand name, and an indication of proof of existence (verification). Verification can be a publication ad (publication and date), radio is in a collection, radio described in historical journal, etc. Reference to a previous IHRS Bulletin will lead to additional model and date information. Readers are invited to correct/add to the list. Contact Fred Prohl with your information.

Indiana Radio Manufacturers – 1920's

COMPANY	Model or brand name	Verification
Aladdin Manufacturing Company 602 E. 18 th St., Muncie	"Aladyne"	1925 Radio Trade Directory
Allison-Pickett Company 106 South 7 th St., Terre Haute	"Apcodyne"	
American Apparatus Company 30 North 19 th St., Richmond	"Amaco"	1925 Radio Trade Directory
American Radio Company Indianapolis	"American"	
Amplex South Bend	"Amplex"	IHRS Spring 98

Anylight Electric Company 1418 Wall St., Ft Wayne	"King Cole" "Everyhome"	1925 Radio Trade Directory IHRS 6/80, 3/84, 12/84
Argyle Marion	"Argyle"	
Better Radio Products 2525 S. Walnut St., Muncie	"Melody"	1925 Radio Trade Directory
Cardinola Radio Corporation 339 North Capital Ave., Indianapolis	"Cardinola"	1925 Radio Trade Directory
Circulex Radio Corporation 217, 230 East Ohio St., Indianapolis	"?"	1925 Radio Trade Directory
Colin B. Kennedy South Bend	"Kennedy Royal" "	IHRS 5/79, 3/86
Continental Radio Corporation Fort Wayne	"Star Raider"	IHRS 12/84, 9/86
Diamond T Manufacture 526 North Niles St., and 615 Crescent St., South Bend	"Diamond T"	1925 Radio Trade Directory IHRS 9/80
Eisenhour, L. J. Manufactures 213 East South St., Indianapolis	"Vizo"	
Electric Machine Corporation 529 North Capital Ave., Indianapolis	"Elmco"	1925 Radio Trade Directory IHRS 6/83, 6/88
Evansville Radio Laboratory 1103 South Third St. Evansville	"EV-RA-LAB"	IHRS Fall 92, Winter 01
Everyhome Radio Company (Anyrite Company?) Fort Wayne		IHRS 12/84
Guerrier Radio Corporation Fort Wayne	"?"	
Hammond Radio and Supply Company Hammond	"?"	IHRS 12/93
Hatfield Electric Company 102, 104 South Meridian Ave., Indianapolis	"Hatfield"	
Heslar Radio Corporation Indianapolis	"?"	IHRS 9/86

Hiday Electric Company 209 Main St., Fortville	"Handcock"	
Imperial Electric Company 201 South Colombia St., Union City	"Le Pilote"	
Indiana Manufacturing Company 530 Case Bldg., Marion	"Hyperdyne" "Case"	1925 Radio Trade Directory IHRS 9/78
Laurel Motors Company 5 th and Sycamore St., Anderson	"Sinclar"	
Lyradion Manufacturing Company North Main and East Front St., Mishawaka	"Lyradion"	IHRS 9/88
Midland Electric Manufacturing Co. 107 South Capital, Indianapolis	"Midland RF Receiver" "Night Owl"	IHRS 9/90, Sum 2000
Nicholson Experimental Laboratories New Augusta	"Nicholson"	IHRS Summer 99
Okay Radio Corporation 1/2 West National Ave., Brazil	"Okay"	1925 Radio Trade Directory IHRS 9/83, 5/93, 22, Sum 98
Queen Quality Radio Corporation 12 Pine, Evansville	"Queen Quality"	1925 Radio Trade Directory
Showers Brothers Furniture Company 601 Morton St., Bloomington	"Showers" "Future"	IHRS Winter 98
Skylark Radio Corporation Division of J. W. Whitlock Company Rising Sun	"Skylark"	
Slagle Radio Company 530 Masterson Ave., Fort Wayne	"Slagle"	1925 Radio Trade Directory IHRS 12/84, Fall 97
Starr Piano Company 1 st and A Street, Richmond	"Starr" Radio/Phono	1925 Radio Trade Directory
Thomas and Simmerman 221 Spencer Ave., Marion	"?"	1925 Radio Trade Directory
Tilman Radio Corporation Wabash (Manufactured in Largo)	"Tilman" "Challenger"	1925 Radio Trade Directory
United Radio and Manufacturing Company Gary	"?"	1925 Radio Trade Directory

Washburn Burner Corporation 303 North Buckeye, Kokomo	"Washburn Burner"	
Wasmuth – Goodrich Company Peru	"?" Radio/Phono	1925 Radio Trade Directory
Radio Horn Speakers – 1920's Bremerman Bros Manufacturing The Radio Cabinet Company, Indianapolis	"Orchestrion Deluxe"	IHRS 7/78, 3/80
Radio Parts – 1920's Carleton Sanders Mishawaka	"Ensign"	
Indiana Radio Manufacturers – 1930's Arvin Noblitt-Sparks Industries Columbus	"Arvin" "Rhythm Baby"	IHRS Summer 98 Winter 2000
Caphart Corporation Fort Wayne	"Junior" "Combinaire"	Bunis, Antique Radios 3 rd edition, page 43
Cage Corporation 17 th and Gent Street Indianapolis	"Victory"	IHRS 9/94
Delco Radio Division of G.M Corporation Kokomo		Bunis, Antique Radios 3 rd edition, page 62
De Pree Sales Company Patent Development Company South Bend	"Wren" "Lark"	
Farnsworth Television & Radio Corp. (Capart) Fort Wayne	"Farnsworth"	Bunis, Antique Radios 3 rd edition, page 89
French, Jesse Manufacturing Co. Jesse French, Newcastle	"Tudette", "Devon" "Tudor"	
Kingston Radio Kokomo	"Kingston"	Bunis, Antique Radios 3 rd edition, page 122
Service Electric Company Indianapolis	"Black", "Cresta" "Rodeo"	
U.S. Radio Marion		Bunis, Antique Radios 3 rd edition, page 242
Wilson Radio Corporation	"Wilson"	IHRS member collection

Radio Parts – 1930's

Mallory, P. R.
Indianapolis

IHRS 9/90

Radio Corporation Of America
Indianapolis, Bloomington

Indiana Radio Manufacturers – 1940's

Electronic Laboratories Inc. "Orthosonic"
122 West New York Street, Indianapolis

Bunis, Antique Radios
3rd edition, page 69.

John Meck Industries
Plymouth

"Meck", "Lee"
"Deluxe", MirrorTone

IHRS 12/89, 12/90,
12/96, Winter 01, **

** The EH Scott and John Meck Story, Antique Radio Press, JR Keller

Trav-Ler Radio & Television Corp. "Trav-Ler"
Manufacturing in Bedford and Orleans
Corporate Office in Chicago

IHRS Winter 01

Indiana Radio Manufacturers – Post 1950

Audio Industries "Ultratone"
Michigan Industries

Bearcat
Indianapolis

"Bearcat"

I.D.E.A.
Indianapolis

"Regency"

IHRS 12/84, 12/90

Midland Electric Company
Indianapolis

"Midland"

Patrick Research & Development Lab "Pa-Tronic"
Indianapolis

Sarkes Tarzian
Bloomington

IHRS 5/93

Stark Sound Engineering
2131 Fairfield Avenue
Ft. Wayne

"Stark"

The following manufacturer/trade/brand names are listed in the IHRS Bulletin (12/98). Assistance is needed in verification of manufacturer.

APEX, Marion

B&W Manufacturers, Kokomo

Better Radio Products, Muncie
Beverly, Marion
Bush & Lane, South Bend
Circulex Radio Co., Indianapolis
Coronado, Kokomo
Coronet, South Bend
Davis, Kokomo
Dawson, Kokomo

Furure, Bloomington
Gibson Girl, Kokomo
Glorytone, Marion
Gypsy, Kokomo
Magnavox, Ft. Wayne
Mantola, Marion
Steinite Laboratories, Ft. Wayne

The models or brand names listed are provided as a sample and is not all inclusive. It is interesting to note that while many of the Indiana radio manufacturers have been researched and reported in the IHRS Bulletin, there is still considerable opportunity for additional research.

Don't hesitate to bring it to my attention if I've missed an IHRS reference. Help complete and correct the Indiana Radio Manufacturers information – contact Fred Prohl with your additions and/or corrections.

Fred Prohl

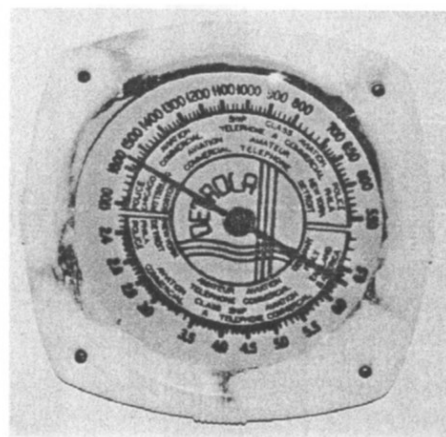


Photo Gallery

Detrola 134X dial

Articles

Eisemann Magnito RF-2 Reciever

By Walt Sanders - Terre Haute

In early 1923 the Eisemann Magnito Corporation of Brooklin, New York, began the manufacture of radio parts for experimenters, much the same as

Atwater Kent had done one year earlier. The variometer and variable capacitor were similar to those of other manufacturers, but as shown in the April, 1924 Radio News ad, the 4-inch tuning knobs, potentiometer, combination tube socket-rheostat and RF transformer with socket show considerable originality. The current rheostat for each tube is mounted at the base of the tube socket so that the current wheel can be adjusted by thumb at the front of the panel. The potentiometer operates the same way. They also sold an audio transformer-tube socket unit (see the photograph) and a detector with grid leak-condenser mounting, as well as plans for building most popular circuits of the early twenties, and aluminum panels (painted crystalline black) for the various sets. All units were made to bolt directly to the metal panel, which could then be used for the common ground.

In May, 1924, they introduced their first factory wired set, the RF-2 for \$110.00. Again following Atwater Kent's lead, they used parts they had been selling for over one year. The RF-2 is shown in the ad from Radio News and the photograph.

Assembly was simple. Bolt the six items shown in the April ad and two audio units to the panel, include a five-post terminal strip and two fixed capacitors, and several connecting wires, and install in the solid mahogany cabinet. Because of ease of assembly, a purchaser probably would save very little by buying the parts as a kit and doing the assembly himself.

The sunken dials give a flush look to the panel. Only the off-on switch and the antenna and ground posts stick out (these posts could have been turned inward, but that may have interfered with the variometer tuning).

The RF transformer mounting allows insertion in two ways, so that either winding could be the primary. I would hope the owners manual clarifies this. Also, there is no marking to distinguish which mounting is for the grid leak and which is for the condenser.

Each unit has an Eisemann label, but the overall set does not. Nor is there a serial number. One wonders how many of these sets sold.

The circuit is the early variometer-tuned detector and two audio stages, with the addition of one stage of RF amplification. Sales must have been poor since the RF-2 was competing with the TRF's that had been out nearly two years (and the superhets). Some other companies were out of date, too. Crosley was advertising the XJ at \$55, Zenith the 3R (\$160), Grebe CR-12 (\$175) and Federal 59 (\$177), for example..

By October, 1924, Eisemann introduced Model 6-D, a five tube "3 dialer" at \$125. But by the end of 1924, advertising ceased.

Introducing— A new Broadcast Receiver

Type RF-2, a receiving set of surpassing excellence is offered to the radio public.

Radio frequency amplification at its best is employed—a transformer-coupled tuned radio frequency circuit with two stages of audio frequency amplification.

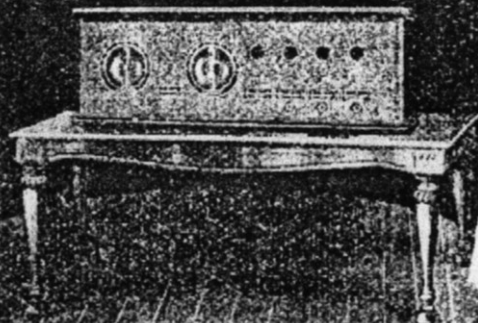
There are but two controls and tuning is extremely simple. Extraordinary sensitivity is combined with a high order of selectivity. Broadcast programs from far distant points are received with marked clarity and volume.

The assembly of instruments is encased in solid mahogany.

SEE IT HEAR IT COMPARE IT!

Ask your dealer

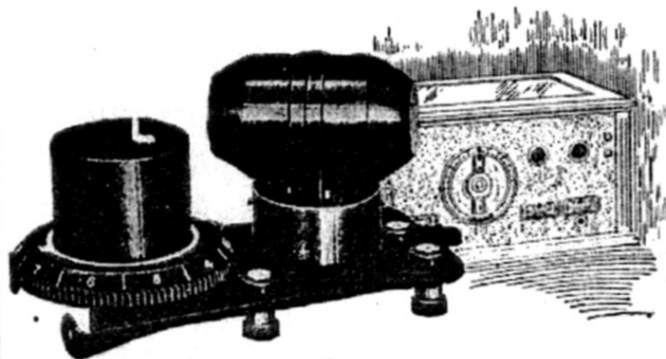
EISEMANN MAGNETO CORP.
William N. Snow, President
50 Thirtieth St., Brooklyn, N. Y.



Type RF-2
PRICE
\$110.00

EISEMANN

May 1924 Radio News



Announcing—

A New Radio Frequency Transformer

—in a combination unit, consisting of transformer, tube socket and rheostat.

Especially designed for use in tuned radio frequency circuits—the most practical method of amplifying high (radio) frequency impulses.

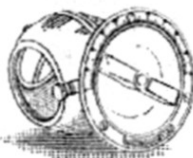
The trend toward radio frequency amplification is to be expected. Its advantages are many—long distance reception; the excellent results obtained with indoor aerials, and an entire absence of interference with neighboring receivers.

When incorporated in a tuned radio frequency circuit, this transformer amplifies efficiently at all wave lengths employed in present-day broadcasting.

All Eisemann units are matched one to the other, not only in their electrical co-relation but also in appearance, and, when assembled, present a harmonious whole.

Complete instructions for wiring are given, and the individual not deeply versed in Radio can build a receiver with assurance of results.

Catalog sent on request



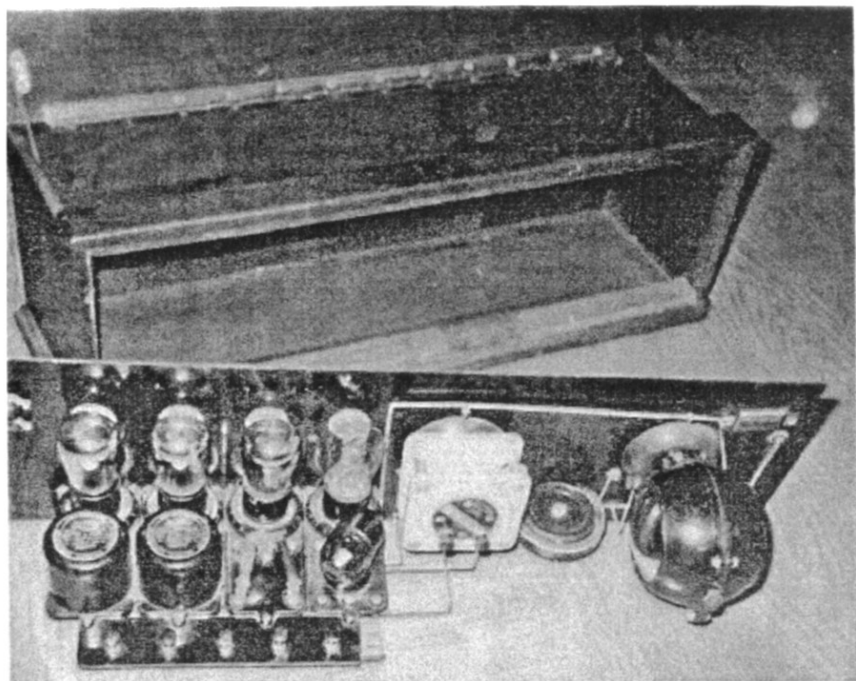
EISEMANN MAGNETO CORPORATION

WILLIAM N. SHAW, President

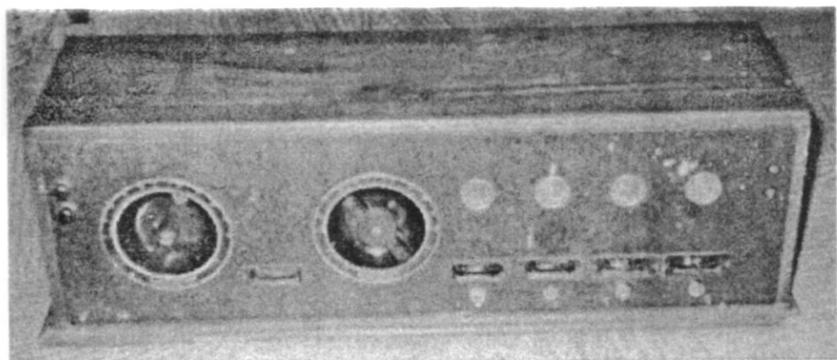
50 Thirty-Third Street

Brooklyn, N. Y.

April 1924 Radio News



The inside view of Walt Sander's 1924 Eisemann.



Walt Sander's 1924 Eisemann

Atwater Kent

By Edward Dupart

I recently acquired an interesting Atwater Kent catalog of their very popular 1929 series of radios. Radios that many of us have and see at shows and antique malls. Empty cabinets also abound and I have wondered for sure if it was an AK cabinet or not. One of the enclosed pictures should help in identifying some of these cabinets. It is my intention to include, in future Bulletins, pictures from this catalog that are very interesting to me because of the furniture and other household items shown in the picture. Hopefully, you will find them informative as well.



A. ATWATER KENT

PRESIDENT AND FOUNDER OF THE
ATWATER KENT MFG COMPANY
Philadelphia

Always wondered what he looked like.

NEW PRICES ON ATWATER KENT RADIOS

Effective November 4, 1929

The following prices supersede those shown elsewhere in this catalog:

Receivers

	(Page 21)	NEW PRICES
Panel Model 55-C	. . . . .	\$64.00
Table Model 55	. . . . .	68.00
Panel Model 55-FC	. . . . .	64.00
Table Model 55-F	. . . . .	68.00
	(Page 23)	
Panel Model 60-C	. . . . .	76.00
Table Model 60	. . . . .	80.00
	(Page 25)	
Panel Model 61-C	. . . . .	76.00
Table Model 61	. . . . .	80.00
	(Page 26)	
Panel Model 67-C	. . . . .	58.00
Table Model 67	. . . . .	62.00

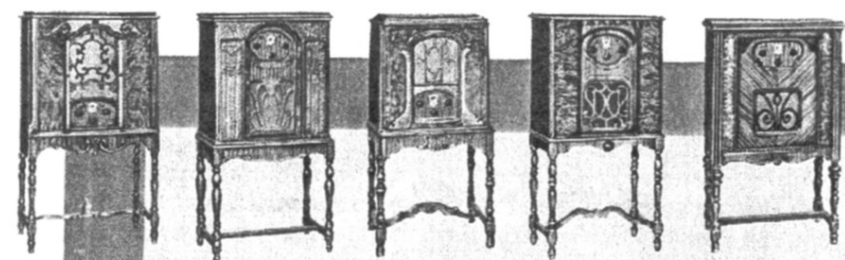
Table Model Electro-Dynamic Speakers

	(Page 28)	
Model F-2-A—Speaker	\$27.00
Model F-4-A—Speaker	27.00
Model F-6-A—Speaker	27.00
Model F-7-A—Speaker	27.00
Model F-2 —Speaker	27.00
Model F-4 —Speaker	27.00
Model F-6 —Speaker	27.00
Model F-7 —Speaker	27.00

Chassis Type Electro-Dynamic Speakers

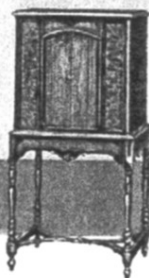
	(Page 29)	
Model F-2-C—Speaker	\$20.00
Model F-4-C—Speaker	20.00
Model F-6-C—Speaker	20.00
Model F-7-C—Speaker	20.00

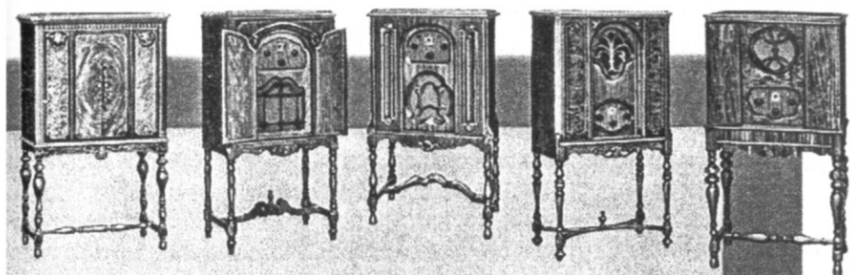
Prices slightly higher west of the Rockies.



THE best of American cabinet makers — famous for sound design and sincere workmanship — are co-operating to meet the demand for Atwater Kent Screen-Grid Radio in fine cabinets. You have the choice among the creations of not just one or two cabinet specialists, but of many.

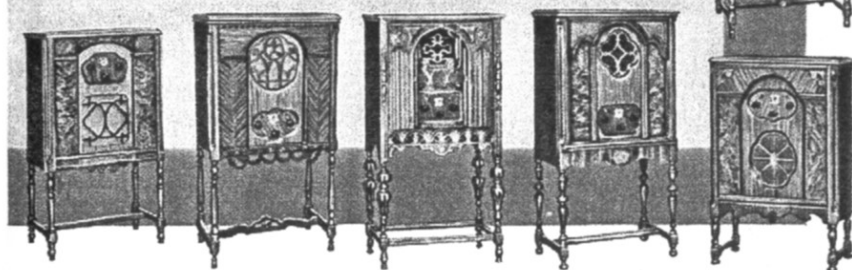
The price depends upon the cabinet you choose. Whatever you pay, you





may be sure you are getting the biggest value for your dollar that you can find in the whole world of radio.

On the front of every Atwater Kent Receiver in a furniture cabinet you will find a name-plate showing that the radio was made by Atwater Kent. On the back you will find a name-plate showing that the cabinet was made by a famous furniture manufacturer expressly for Atwater Kent Screen-Grid Radio.



This should help us in identifying some of those empty cabinets.

Necessary Equipment

Models 55 and 55C

- Two (2) Type UY-224 or C-324 Tubes.
- Two (2) Type UY-227 or C-327 Tubes.
- Two (2) Type UX-245 or CX-345 Tubes.
- One (1) Type UX-280 or CX-380 Tube.

Models 55F and 55FC (25 Cycle)

- Two (2) Type UY-224 or C-324 Tubes.
- Two (2) Type UY-227 or C-327 Tubes.
- Two (2) Type UX-171A or CX-371A Tubes.
- One (1) Type UX-280 or CX-380 Tube.

Models 60 and 60C

- Three (3) Type UY-224 or C-324 Tubes.
- Two (2) Type UY-227 or C-327 Tubes.
- Two (2) Type UX-245 or CX-345 Tubes.
- One (1) Type UX-280 or CX-380 Tube.

Models 61 and 61C (Direct Current)

- Three (3) Type UX-222 or CX-322 Tubes.
- Two (2) Type UX-112A or CX-112A Tubes.
- Two (2) Type UX-171A or CX-371A Tubes.

Equipment for Models 67 and 67C (Battery Operated)

- Three (3) Type UX-222 or CX-322 Tubes.
- Two (2) Type UX-112A or CX-112A Tubes.
- Two (2) Type UX-171A or CX-371A Tubes.

BATTERY EQUIPMENT

- One (1) 6 volt Storage Battery (100-120 Ampere Hrs.)
- Four (4) 45 volt "heavy duty" Dry "B" Batteries.
- Two (2) 22½ volt Dry "C" Batteries.

Warranty

All Atwater Kent Receiving Sets and Radio Speakers are warranted to be perfect when they leave our plant. A printed warrant and guarantee covering the terms on which we will replace or repair defective equipment accompanies each piece of Atwater Kent Apparatus.

Prices of all Atwater Kent Radio Equipment subject to change without notice.

Prices slightly higher from the Rockies west

INDIANAPOLIS FEBRUARY MEET AND CONTEST RESULTS

I thought the February meet was a big success and the weather cooperated very nicely. No snow or ice storms. Of course, this winter has been the most mild winter I have ever experienced in Indiana and I'm sure this helped in our attendance. The radio contest brought out some very nice radios and thanks to Peter Yanczer, they were captured on film as well as a photo of some of the officers. Some of the other radios Peter took pictures of are under the Photo Gallery. Thanks, Peter.

Contest Results:

Transistor radios:

1st Micronic Ruby owned by Peter Yanczer

2nd Sceptre owned by Fred Prohl

Portable Radios with 1, 2, 3 volt filaments

1st Tom Thumb Camera Radio owned by Edna Yanczer

2nd 1942 Zenith Transoceanic owned by Robert Pote



Dr. Ed Taylor
Historian

Fred Prohl
Secretary, Treasurer

Bill Morris
Vice President

Ed Dupart
Editor



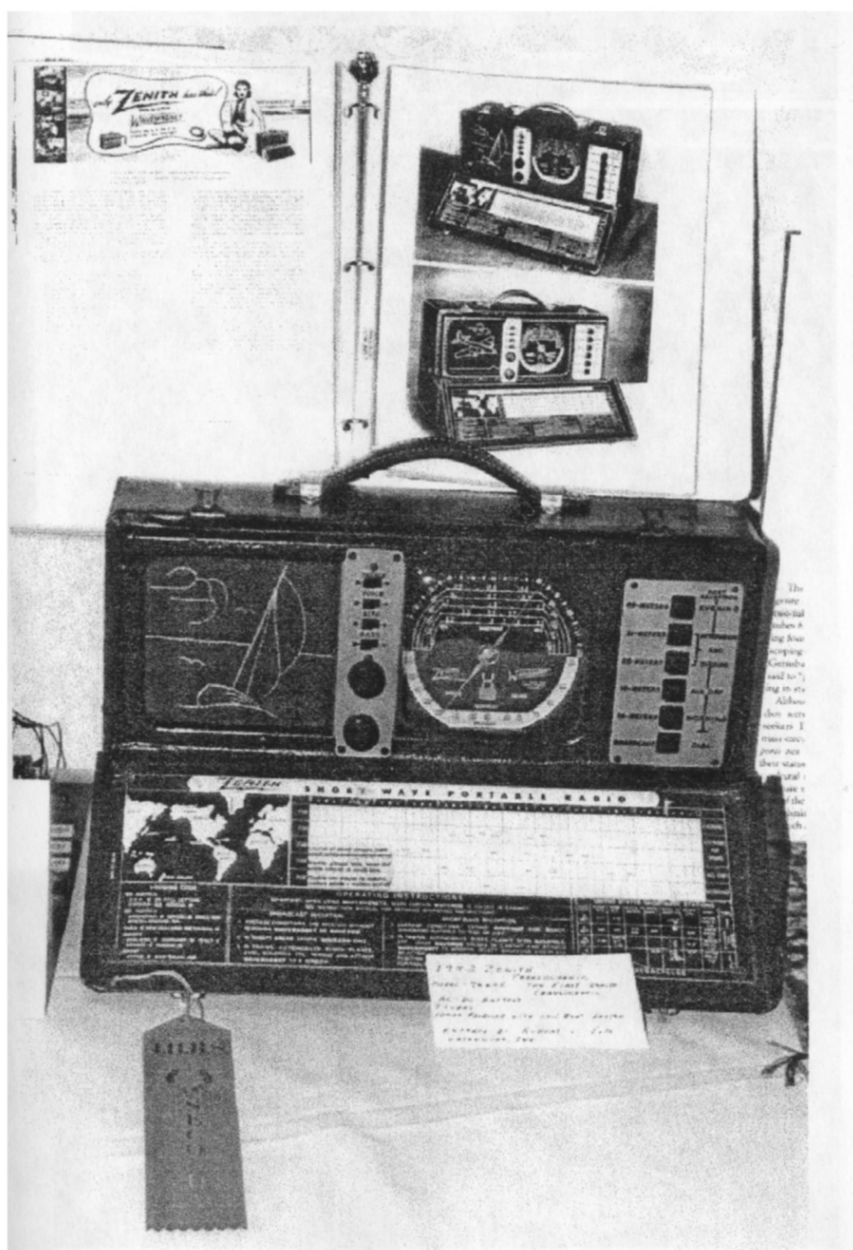
Contest Display



Peter Yanczer's Micronic Ruby and Fred Prohl's Sceptre



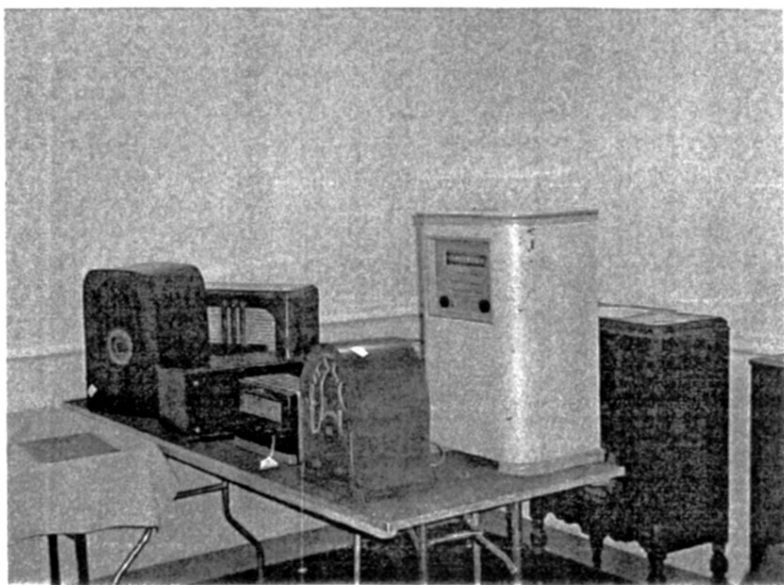
Edna Yanczer's Tom Thumb Camera Radio



Robert Pote's 1942 Zenith Transoceanic

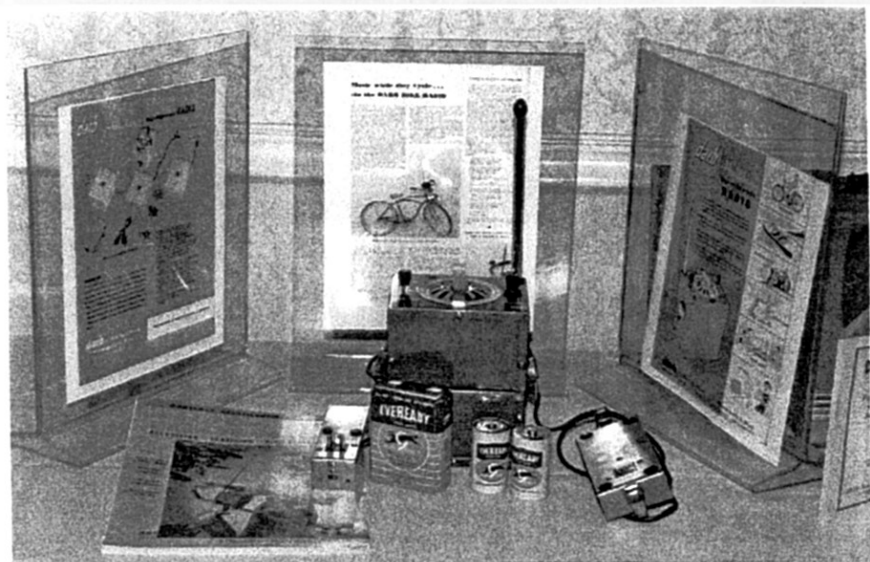


There was a lot of activity at the Feb 2002 meet.



One of the many tables set up at the Feb. 2002 meet. This table had an unusual clothes hamper looking radio.

Photo Gallery



Bill Morris's Darb Bike radio at the Feb. 2002 Meet



Peter Yanczer's Radiola 26 at the Feb 2002 Meet

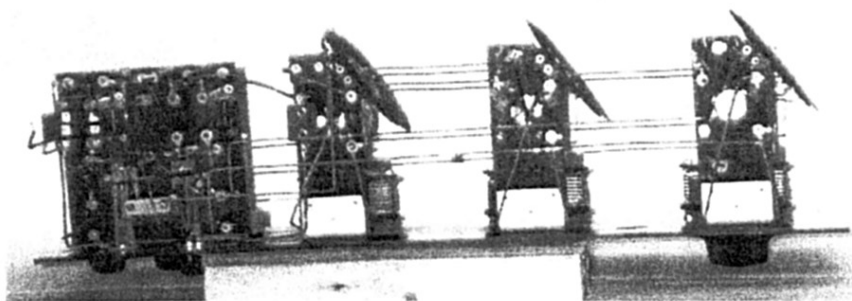
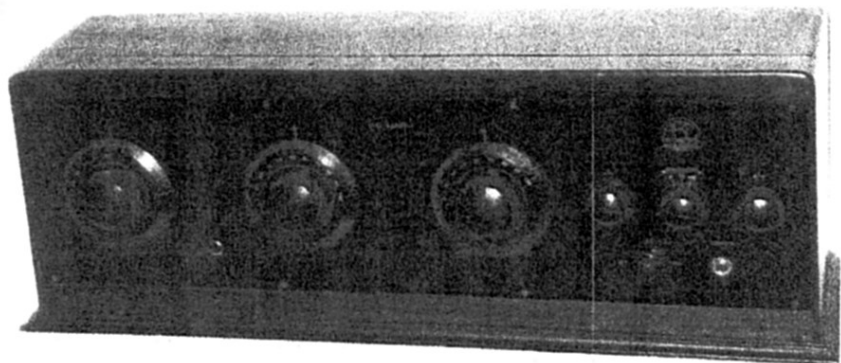
PRIVAT-EAR



The Privat-ear (Fig. 12.4) was the most stylish and popular set of this genre (at around \$20 to \$30), enjoying sales from 1951 to about 1954. A two-tube set, the Privat-ear employed a reflex circuit in which the same tubes functioned in both radio- and audio-frequency stages (thus providing four-tube performance). Like the others, it had an ear plug and telescoping antenna, the latter making use in the pocket somewhat awkward. Gernsback's *Radio-Electronics* wrote up the Privat-ear in 1951; it was said to "provide sensitive reception with adequate volume"—even "pulling in stations from as much as 50 miles away."

Although a modest success, the Privat-ear and other shirt-pocket radios were probably bought mainly by electronics buffs and novelty seekers. They certainly did not reach a mass market or attract attention in mass-circulation magazines. What is more, that neither *Consumer Reports* nor *Consumer Research Bulletin* reviewed these radios indicates their status in the late forties and early fifties as novelties or toys. Though a cultural imperative for *domestication* of the shirt-pocket portable (with sub-miniature components) in the marketplace. (However, some of the more common uses of shirt-pocket radios in the late forties and early fifties, such as for *receiving*.)





This unusual **Andrews Deresnadyne, Model A** belongs to **George Hausske**, who is looking for a schematic for it. See the Radioads for details.

RADIOADS

These ads are free to IHRS members. Please limit them to 100 words. Unless we are advised otherwise, we will run ads for two issues. The exception would be where services, etc. are being listed. Please send your ads to the editor at the address shown on page 2.

Wanted: Diagram for an Andrews Deresnadyne, Model A. It is a 5 tube 3 dialer with a SOFT-LOUD-OFF switch. George Hausske, W9OLE, 1922 E. Indiana St., Wheaton, IL 60187 PH. (630) 668-3845 See the Photo Gallery for pictures.

For Sale: Philips Radio tube books. I am currently reducing my stocks of my book "Illustrated History of Philips Radio Valves to 1935" and am offering signed copies to fellow IHRS members for \$10 cash including air mail postage. Please reply to Fin Stewart, "Cockerdale", 380 Bulga Rd, Wingham, N.S.W. 2429, Australia.. email address cockerdale@bigpond.com

For Sale: 1947 Silvertone am/fm console radio with wire recorder and 78 rpm record player. Good condition, must pick up, cannot ship. \$75.
George B. Clemans, 851 West Wooster St., Bowling Green, OH 43402.
(419) 352-7198. clemans@bgnnet.bgsu.edu.

For Sale: Now Available: A replacement for the UV99, our V999R replaces your UV99, our V999 operates the filament on 1.5 VDC. Both use a 5676 proximity fuse, subminiature tube. Our price: \$15.00 plus first class shipping.
James Fred, 5355 S. 275W, Cutler, IN, 46920, phone (765) 268-2214.

For Sale: Heathkit AR-29 FM/AM stereo receiver and amplifier. 35 watts/channel--\$45.00. Complete with original assembly manual (190 pages) and schematics. I understand the manual is worth the price. Cabinet and chrome in mint condition. FM needs alignment, otherwise works well.
Ray Andrejasich (317) 846-6977.

For Sale: 1935 Clinton, \$50.00; Crosley 645, \$115.00; 1934 Emerson 36 \$115.00; Brown bakelite Emerson, \$40.00; 1948 Firestone 4-A-61, White, \$55.00; G.E. 51SF clock radio, Brown, \$30.00; G.E. 408, Brown, (not playing), \$15.00; 1931 Gloritone 26, \$175.00; 1935 Grunow 470, \$100.00; Maroon Motorola 5R1, \$30.00; 1930 Philco 20, \$235.00; 1931 Philco 70, \$315.00; 1936 Philco 84, \$150.00; 1942 RCA 6X2, White, \$50.00; 1946 Ultradyne L-43, \$45.00; 1936 Varsity, \$50.00; 1946 Zenith 5D-0 11, Brown, \$45.00. Zenith 6D-26-20. All radios are in nice condition and in good working order unless otherwise specified. Call for descriptions or can deliver to Indianapolis show in February.

Bill Arnold, Washington, Indiana. Ph 812-254-1702 or Email:
barnoldworld.com

For Sale: Book: "From Crystal to Color", the History of Radio/TV Station WFBM, Indianapolis (1924 to 1964) by George S. Madden & Burk Friedersdorf. First edition 1964 published by WFBM. Has 190 pages and is in excellent condition complete with dust jacket. Price, \$25.00
Novelty radio, solid maple wall telephone, excellent condition--\$30.00
Harry Blesy N9CQX, 95740 Clarendon Hills Rd. Hinsdale, IL 60521
Phone/FAX (630) 789-1793

For Sale: Near mint copy of the AWA Review for 1998--\$20.00 postpaid.
James Fred, 5355 S. 275 W., Cutler, IN 46920, phone (765) 268-2214.

FOR SALE: Reproduction Philco cathedral cabinet parts and reproduction cabinets for model 20, 21,70, 90. Grandfather clock finials: Philco 570, GE H-91, Crosley 124. Philco Colonial Clock top trim and finials. Rider's Radio Index, 1 through 23 -\$20.00 ppd. Books, SASE for list. All plus shipping. Philco cabinets, front panels, see page 22 in Volume 29, #4 the Winter edition. Other parts, inquire. Call or e-mail for details. Note new phone # and address. Dick Oliver c/o Antique Radio Service, 1725 Juniper Place, #3 10, Goshen IN 46526. New phone # (219) 537-3747, e-mail dolivears@aol.com

FOR SALE: Coke Machine, Cavalier Model CSS 173. Refrigeration works and it's all there including the key. Holds a lot of 12oz. (or smaller bottles). \$250.00 The coke machine may be seen by appointment, but bring money. Mike Clark, 6484 East 350 North, Franklin, IN 46131. Tel. # (317) 738-4649, e-mail ripmaclark@aol.com

FOR SALE: Photocopies: Hallicrafters 8-22, Zenith 1000-1, Radiola III, 18, 60, 100A, 103, Majestic 52, and other radio, tube, and Test Equipment manuals. Also some Novelty radios. LSASE for list. N.I.B. Western Electric 421A-\$55 postpaid. **WANTED:** Speaker/output xfmr. assembly for RCA 5T1. Herman Gross, 1705 Gordon Dr. Kokomo, IN 46902. (765) 459-8308. e-mail = w9itt@mindspring.com

FOR SALE: Novelty radios, N.I.B.: Pekinese Dog - \$20.00, Computer Mouse FM - \$15.00; Pepsi machine, old style-\$20.00. Shipping extra. Steve Whited, 3637 W. 71st Street, Indianapolis, IN, 46268. (317) 298-9967.

WANTED:Philco 512 Mandarin Red radio w/212 Red speaker or 514 Nile Green radio with 214 Green speaker or 513 Labrador Grey metal radio with 213 matching grey speaker. I prefer the Red model. Bob O'Friel, 7631 Cape Cod Circle, Indianapolis, IN 46250-1844 Phone, (317) 849.4028

WANTED: For Zenith model 6G601M portable. The knobs, front cover and Wave Magnet. Also need Wave Magnet for 7G605 Transoceanic, I could possibly adapt one from a 8G005Y if available. Robert C. Pote, 1181 Crestwood Dr. Greenwood, IN 46143 phone (317) 881-4521 e-mail = mrzenith41@aol.com

Interested in TV history? Want to see how it started? Try this Web site. You'll be amazed how far we've come.

<http://pyanczer.home.mindspring.com/Tour> Note: all lower case except the upper case "T" in tour.

Pete Yanczer, 635 Bricken Place, Warson Woods, MO 63122-1613

FOR SALE: Remler infradine amplifier, type 700, panel mounted on copper box, excellent condition less tubes--\$100.00 plus shipping. 3 used 2O1As--\$45 plus shipping. AK Model 49, includes battery cable, no tubes--\$ 100.00 plus shipping.

James Fred, 5355 S. 275W, Cutler. IN, 46920, phone (765) 268-2214.

FOR SALE: Book, "The Story of Kolster Radio", 1928, HC. 46pgs 8 1/2" x 11", color and b & w with silver borders, company history and product line, beautiful blue and gold book showing some cover wear otherwise excellent--\$50.00.

Harry Blesy, N9CQX, 95740 Clarendon Hills Rd.. Hinsdale IL 60521
ph (630 789-1793)

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