

# The C. R. C.

# FLASH!!

Official Journal Published For Colorado Radio Collectors  
Dedicated to the Preservation and Documentation of Wireless, Radio, TV, and Associated Equipment

Volume 4

January - February 1993

Issue 1

## BouldeRadio Manufacturing Company Story of the "Eight-In-Line"

By Rick Ammon

Any town anywhere could have been a center for set building and supplies for the hungry radio hobbist. In the mid and later nineteen-twenties, Boulder was to be one of those towns.

Incorporation papers for the Boulderadio Manufacturing Company were filed on

June 12, 1926. The principles were C. B. Rosenberg, W. L. Cassell, and Hurlburt Anderson. A couple of local attorneys were shown as directors of the infant company with two hundred shares of preferred stock at a par of \$100 and ten thousand shares of common

(Continued on page ten)



Official Journal of the  
**Colorado Radio  
Collectors**

Founded October 1988

Dedicated to the Preservation and Documentation of  
Wireless, Radio, Television, and Associated Equipment

**WANT ADS**  
and  
**ARTICLES**

should be directed to:

**C. R. C. Editor**

1249 Solstice Lane  
Fort Collins, CO 80525

**DEADLINE NOTES**

It's the intention of this Editor to broadcast our journal bi-monthly just prior to the CRC meetings. Articles about and pictures of your treasures are welcomed as are *Want-to-Sale* ads and any letters or comments about our great hobby. All materials used are the copyrighted (©) property of the *Colorado Radio Collectors*. All pictures returned.

Your Editor will put together articles about your best finds, restoration and electrical repair techniques, or your recollections, and stories about radio. Just provide a handful of information in any form...and we'll put it together!!

Our club can only succeed when we share our experiences, talents, needs, and adventures; you're being asked to contribute in whatever way you can. **SHARE** with us today!! Thank you.

**Deadlines:** (Editor must receive)

December 15 • February 15 • April 15  
June 15 • August 15 • October 15

**Dues Presentable  
Upon Membership  
Anniversary**

\$10<sup>00</sup> Annually

**Larry Weide**

5270 East Nassau Circle  
Englewood, Colorado 80110

(Please do NOT make checks to CRC,  
rather to "Larry Weide, CRC Treasurer")

**MEETING LOCATION**

Unless otherwise noted in this Journal, beginning in January, meetings are held on the second Sunday of every other month (exception: third Sunday in May) at 1:00 PM at the *SouthWest Bank Building* - Community Room - 1380 South Federal, Denver. A swap meet follows the meeting in the bank parking area.

**C. R. C. OFFICERS**

(All area codes below are 303)

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**Vice President:**

Riggs Smith 973 • 8792 Littleton

**Treasurer:**

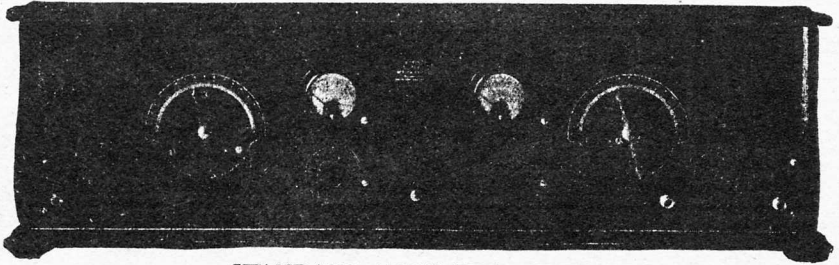
Larry Weide 758 • 8382 Englewood

**Journal Editor / Secretary:**

Rick Ammon 224 • 5446 Ft. Collins

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# A HIGH-POWERED 10-TUBE MODEL FOR 1928



STANDARD ADMIRALTY MODEL

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Cable: Norhauck

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MARINE BLDG., PHILA., PA.

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Address .....

# TRUTH IN REPORTING

## HOW I BOUGHT AN ATWATER KENT BREADBOARD FOR ONLY \$2.50!

By Bill Schultz (C. R. C. Nebraska Member)

The article in the September/October issue of the CRC Newsletter said someone in southern Colorado purchased a breadboard for two dollars. This is false on both counts!

The location was southern Nebraska and the price was considerably higher. Fifty cents higher to be exact. Which on a percentage basis in an election year was a lot of money. The item in question was a Model 12 Atwater Kent breadboard. Run that by again! You bought what?! Where did you buy it and are there more for that price?

I must confess I am that person and am sure there's at least one more buy like this somewhere. But I'm also most sure I won't again find it in my life. In other words...a once in a lifetime deal that everyone is entitled to will probably not be mine again. One of my theories has always been that if you look at enough old radios, the percentage of turning up the more desirable ones goes up accordingly.

Back to the question: "Where did you buy it?" An auctioneer, who has my name on his mailing list, sent me one of his sale bills for a large upcoming estate auction. It listed a very large amount of hunting and fishing items, vehicles, and household items, and hidden in the upper righthand corner of the bill was a small listing of antiques, mentioning a 1925 radio receiver. My first thought was the basic three knob battery set, or just something with tubes, or they probably wouldn't have even known it was a radio. No name was listed so it must not have had one on it. The date of the sale was a Sunday in late May, 60 miles down the road.

That Saturday night before the sale I arrived home late (2 AM) after

taking my wife to the Omaha airport to catch a plane to see the Grandkids. I couldn't get fired up about getting back into the car and going someplace. Next morning, I looked outside only to see it raining very steadily and thought, "What a bummer of a day! I wonder if they'll have the sale? Only one way to find out...go and see."

The sale was to start at ten. It was already nine. "Go for it!" I said, putting on a hooded sweater. On the way I made a quick stop to get coffee, a roll, and gas; all the time listening intently to the radio to see if the sale had been canceled. I popped onto the Interstate and got with it.

I arrived at the sale at 10:40 to find it had already started - OUTSIDE! It was raining just as much there as it was at home. Looking around I found most everything piled onto four flatbed trailers...books, clothing, boxes of fishing and hunting articles, and all the furniture just sitting out. While getting a bid number, I asked the lady clerking if anything was inside? She told me only six guns which were in the back of one of the station wagons that was going to be sold. So, I decided, if there were no radios inside, I might as well check out the four wagons of junk and head for home. No fool would stand out in this rain all day just to watch such a circus. But, low and behold, while looking through the rain-soaked third wagon, I saw some tubes sticking up from under some metal lawn chairs and other junk. Curiosity took over and I dug in further. I could see it was an AK breadboard, intact! This is when your pacemaker takes a double beat

(Continued on page eight)

# ON THE AIR

## Dick Hagrman, C. R. C. President

I hope all of you had a very Merry Christmas and a Happy New Year as the Hagrman household did! Nineteen ninety-three will be a good year for radio collecting.

At the November meeting it was decided the term for CRC officers should be July through May so new officers were not immediately facing the planning task for the April show. A committee consisting of Barney Wooters, Steve Coulam, and Bruce Young has been selected to nominate members to replace those officers who wish to retire this coming May.

A reminder, dues are due preferably before the date printed on the mailing label of your newsletter. You will be reminded in the issue prior to that expiration date with a "deep due-due" notice. Should your dues not be paid prior to the next issue, that next *Flash* will say "LAST ISSUE".

Good news! Larry and Dorothy Weide have invited us back to their back yard and pool for the July 11th Picnic. We had lots of fun there last year. If you missed it last year, do not miss it this year! (See a yearly CRC calendar on the INSERT page. *Ed.*)

**Help!** Volunteers are needed to do Show and Tell, spending 15 or 20 minutes with the group explaining a process or technique that you use.

**Help!** Articles needed for "*The Flash*". Good examples are the pieces written by Hall Burt last issue and by Bill Schultz in this issue. You can do it!

**Help!** If any of you have something you would like to donate to the CRC for the raffle it would be appreciated. Thanks.

At the next meeting on January 10th we will:

- Start planning for the Annual Show and Swap Meet in April
- Hear a preliminary report from the nominating committee
- Have an opportunity to buy grille cloth
- Have a raffle!
- See a Dave Boyle's show and tell on mechanical restoration
- End with a swap meet

See you January 10th.....Dick

### THIS ISSUE'S COVER

Santa's delighted to deliver a new Philco 116X DeLuxe under the tree. Taken from the December 1939 *Western Dial* published in Denver.

### NEW LOOK TO *FLASH*

A very special THANKS to new CRC member Lonnie Smith and his company **The Pressworks** for giving our newsletter a truly professional appearance!

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## MEMBERSHIP CARDS ENCLOSED

Some of you may have found your C.R.C. membership card enclosed within the pages of this issue. Those of you who did not find yours here will have one available at the regular meetings, provided your dues are current. You'll want to see Larry Weide, Treasurer. If any information on your card is incorrect, please see or contact Rick Ammon. A recommendation is that you trim up and laminate it if you want to carry your card with you.

# A Date With Radio

From the files of Rick Ammon

## JANUARY

<1> The first coast-to-coast broadcast of a football game came from Pasadena, California, occurred on this date. It was a 4,000 mile long hookup from the Rose Bowl.

<3> When President Roosevelt wanted to address a joint session of Congress in 1936, he requested the meeting to be held at night on this date so all Americans could listen in by radio in their homes.

<4> On this day in 1928 was heard the first nationwide radio hookup for the "Dodge Victory Hour". (Today advertisers are just as subtle and even get around the rules...like the *Virginia Slims Ladies' Golf Tournament* Ed.)

<10> According to the National Association of Broadcasters, radio sets for automobiles were first introduced in 1927 on this date. (They might need to do more research! Ed.)

<14> The first five-minute news program broadcast hourly was aired on the ABC radio network in 1957.

<17> On this day in 1936, Fred Waring and his Pennsylvanians made their radio debt.

<18> Rudy Vallee, "The Vagabond Lover", began his career in radio this date in 1929.

<22> Today in 1925, the *Atwater Kent Radio Hour* originated from the studios of WEAf in New York City.

(Continued on page twelve)

## FEBRUARY

<7> In 1925, WLS in Chicago attracted two leading exponents of the wet and dry issue, Clarence Darrow and Wayne B. Wheeler, to its studios for a debate on prohibition.

<11> Guglielmo Marconi on this day in 1901 established wireless communications between Niton, Isle of Wight, and Lizard Station, 196 miles distant.

<12> The first time the Pope's voice was heard in America came when Pope Pius XI spoke to the world from Vatican City on this date in 1931.

<14> One of the first broadcasts for a missing person was heard over a Detroit radio station on this day in 1922. (It would have been hard to put people's pictures on pint cream bottles! Ed.)

<16> On this date in 1947 Rear Admiral Richard E. Byrd flew over the South Pole and dropped flags of the United Nations. News of the event was flashed from Little America by radio. (On November 24, 1992, through the use of many satellites, the first direct televised program from that pole was part of *NightLine*. Ed.)

<17> The first broadcasts beamed directly into Russia was begun on this date in 1947 by the U.S. Department of State. The "Cold War" had begun!

<20> Today in 1938, Adolf Hitler, in his three-hour "steel and blood" broadcast, reviewed Germany's past and warned "hands-off" to other nations.

(Continued on page twelve)

## Next Issue's Features

WWV - Seventy Years Old  
Looking For Radios  
BouldeRadio (Part Two)  
Our Annual Radio Show

## Thanks, Contributors!

Bill Schultz The Brutons  
Ray Kushnir Steve Coulam  
David Boyle Wayne Gilbert  
George Stringe David Tripe  
Barney Wooters Jerry Tynan  
Dick Hagerman Neil Gallensky

# JACKSON-BELL

## Midget RADIO

With the Stock Market crash of the Fall of 1929 and the vast fortunes that would be lost virtually overnight, it seems wholly unlikely that a radio manufacturer could thrive, let alone survive in the environment of the Great Depression. The radio, which by that Dark October had become more of a luxury to the majority of Americans, would have to change dramatically, so that within the next couple of years, even the poorest could afford one.

Practically all radios were Hi-Boys or Lo-Boys in the late '20s, costing several week's paychecks and more. For those who had more meager means, the metal box or long wooden table radios with separate speakers were typical. But the 1929-30 model year was to bring about an exciting difference, initiated by West Coast manufacturers like Keller-Fuller and Brown-Manhart..


Considering one company's radical departure in its design, pricing, and marketing of its product during the worsening economic situation, one would doubt the sanity of its directors. With a desperate attempt to keep its doors open, Jackson Bell introduced a "compact" set, little more than nineteen inches tall, that could be put on the fireplace mantel. This Depression-priced, small upright style was soon to be nicknamed the radio "Midget".

Jackson Bell started business in Los Angeles just three years earlier, yet hadn't made any real impact. However, from 1929 to 1935 this company grew to gigantic proportions, due mainly to its Midgets. The models 4, 25, and 54 tombstones with its speaker grill silhouette of Peter Pan were seen everywhere, and today are still very popular collector's sets. Another early '30s J-B model was the "Pandora", shaped like a carved, wooden chest. Even more desirable nowadays is the most elusive Jackson Bell, the "Blue Mirror" radio, made in part of colored glass. To buy one in today's marketplace will usually fetch an average worker's entire monthly paycheck, so little has changed since the Depression years!

Even with all of its successes, Jackson Bell by 1935 couldn't compete and succumbed to the weakness of the dollar. But the J-B legacy lives on as Midgets sit on the shelves of many a collector.



**\$69.50**  
complete with 8 tubes



**Model 68 Features**

- 8 tube "wallop"
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- local and distance switch
- illuminated vernier dial
- Magnavox dynamic speaker.
- push pull amplification
- improved tone control
- walnut cabinet 19" x 11" x 16 1/2"



# TRUTH (continued from page four)

(if you have one), or, if you're a person with a regular heart, skips a beat.

I just assumed it was a Model 10 and could only picture what it might look like after sitting in the rain all day. It was so dirty the dust had turned to mud. I told myself, "This has got to be covered with something and watched or it would get demolished by people turning over every can, board, box, and tool to see what was on this wagon". I found an old tarp lying close so I unfolded it, tried to dry the breadboard off the best I could, and covered it up to shed the rain. I stood there and kept my eye on it. Every third person who came by had to know what was under that tarp. Ninety percent didn't know or care what it was, and the other five percent knew it was old. But, at best, they thought it was only part of an old radio.

The very few (that last five percent - Ed.) who asked me if it was a radio, I told "yes", but that it had no speaker to go with it. By the look on their faces it was junk and not worth pursuing. One omen was that it was sitting next to a metal ammunition box with an jar of catfish bait that had a terrible odor when the box was opened. I'll bet the jar was at least five years old and it stunk terribly. So people moved on rather quickly after looking at it.

Finally at 3:15 that afternoon, the sale progressed to the third wagon and I asked a ringman to sell the old radio before it got broken. He informed me he would get to it "in time" and to have patience. I couldn't stand it any longer so I picked the set up, walked around the end of the wagon, and handed it to another ringman, asking him to sell it next. He said, "Sure, be glad to". He was wanting to get the auction over as badly as I did and go home. Holding the breadboard up, the young auctioneer asked what it was. The ringman looked at me and I said "part

of an old radio". The auctioneer asked for a five dollar bid. No takers. I wanted to bid so badly I couldn't stand it, but thought I'd play it coy and said "Two-Fifty" (as if not interested). I had no more than opened my mouth than he said "Sold!".

Handing it to me, they were as happy to get rid of it as I was to buy it. Upon examination, after getting back to the car, I found both tags, battery cable, and all parts to be intact. Only then did it sink in what I'd bought and completely forgot how wet I was.

I took it immediately to a friend who is in our Nebraska Radio Club. He looked at it and could not believe what I had. He helped me to check out the audios and was glad to see I was able to buy it.

Upon arriving home I called a friend in Kansas, who specializes in AK items and radios. He said he'd be glad to check it out and clean it up for me. Hooking it up to a power supply and a speaker, it played the first time. To me this is amazing...the history, help of friends, and quality and condition of the radio.

Thinking back to late 1924 or 1925, I can somewhat feel how the original owner felt to be able to buy an AK breadboard for \$105.00 and listen to radio programs at the start of the "Golden Age of Radio".

So, I can only say, in closing, that I'm willing to pay double this amount for another radio of equal quality and kind. Nothing cheap about me! I know a good buy when I see one. You never know...keep looking!

Bill Schultz  
Lexington, NE

P. S. Before you jump to any conclusions - two of the six O1A's were bad...

*(This Editor wishes to apologize to Bill for listening to rumor mongers and reporting erroneous facts. You lucky duck!!)*



# COLLECTOR BOOKS

Thanks to President Hagrman our club has access to popular Radio and TV collector books, as well as other areas of collecting, at special pricing. Dick has the list of hundreds of titles and you should see him at the meetings to order. CRC members get specially reduced prices, most up to 40% off the suggested retail, but the club must order six (6) titles or more at a time. Have your money or check ready at this meeting and get those books ordered!

Descriptions and comments below are taken from the catalogue. The first price is the suggested retail and the second is what you pay. All have paperback covers unless otherwise noted.

**NOVELTY RADIOS, COLLECTING TRANSISTOR**, Robert Breed (with a lot of help and pictures from the collection of our own members Carolyn and Lee Bruton!), over 500 radios, 1990 values, full color, 217 pages.....\$ 24.95 \$ 14.97

**OLD RADIOS, POINTERS, PICTURES, AND PRICES**, Johnson, 1989 prices, 225 pages.....\$ 16.96 \$ 10.17

**ANTIQUE RADIOS, COLLECTOR'S GUIDE**, Bunis, 2nd Edition, 1992 values, 1920-1960, color, 215 pages.....\$ 17.95 \$ 10.77

**ANTIQUE RADIOS, RESTORATION AND PRICE GUIDE**, Johnson, 99 pages.....\$ 14.95 \$ 8.97

**RADIO, EVOLUTION OF THE**, 227 pages, 118 in color, more than 800 radios pictured and priced for 1992.....\$ 22.95 \$ 13.77

**CLASSIC PLASTIC RADIOS OF THE 1930'S & 1940'S**, Sideli, 127 pages, no price guide.....\$ 19.95 \$ 13.97

**RADIOS, THE GOLDEN AGES**, Collins, all color, 119 pages, no price guide.....\$ 14.95 \$ 10.47

**RADIOS REDUX, LISTENING IN STYLE**, Collins, 119 pages, color, companion to "Golden Ages" (above), '30s-'50s, no price guide.....\$ 17.95 \$ 12.57

**LAWLOR'S RADIO VALUES**, 1991 prices. This book also prices the radios in the "Classic Plastic Radios" & "Golden Ages" (above), 32 pages.....\$ 12.50 \$ 7.50

**RADIO MANUFACTURERS OF THE 1920'S - VOLUME I**, Douglas, 226 pages, no price guide.....\$ 24.95 \$ 17.47

**RADIO MANUFACTURERS OF THE 1920'S - VOLUME II**, Douglas, 266 pages, no price guide.....\$ 29.95 \$ 20.97

**RADIO MANUFACTURERS OF THE 1920'S - VOLUME III**, Douglas, 285 pages, no price guide.....\$ 29.95 \$ 20.97

**CLASSIC TV'S, TELEVISIONS PRE-WAR THRU 1950'S**, 1992 values, 86 pages, color.....\$ 16.95 \$ 10.17

**HAKE'S GUIDE TO TV COLLECTABLES** (from TV shows - ed.), 1991 values, 185 pages, 8 color pages.....\$ 14.95 \$ 8.97

**AMERICAN LIGHTING: 1840 - 1940**, Maril, Domestic, Electric, HARD BOUND, 160 pages, no price guide.....\$ 29.95 \$ 17.97

**JUKEBOXES, A BLAST FROM THE PAST**, 1992 values, pictorial price guide, full color, 123 pages.....\$ 14.95 \$ 8.97

**MR. DX HOUND** *A Character Created by RADIO WORLD Artist* **By HAL SINCLAIR**



## C.R.C. CALENDAR FOR 1993

### JANUARY 10<sup>th</sup>

General meeting and swap session. Mechanical restoration demonstration by David Boyle, Officer nominating committee report, Planning for the big April Show, Buy grill cloth, and Raffle.

### MARCH 14<sup>th</sup>

General meeting and swap session. Officer nominating committee report, More planning for the April Show and announcing of the contest categories, and Raffle.

### APRIL 24<sup>th</sup> & 25<sup>th</sup>

Fifth Annual Radio Show and Swap Meet. Radio/TV contests with numerous categories, Equipment Displays, Sale and swap sessions all weekend.

### MAY 14<sup>th</sup>

General meeting and swap session. Nomination of officers and voting, critique of the April Show, and Raffle.

### JULY 11<sup>th</sup>

Family picnic and swim party! (Bring a dish and your family) General meeting, Discussion of Annual Auction, Raffle, and Swap session.

### SEPTEMBER 12<sup>th</sup>

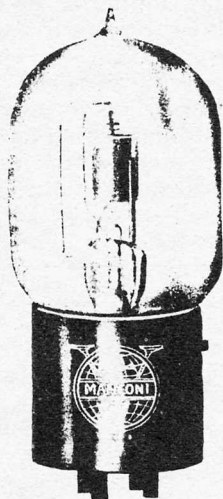
Second Annual Auction. Shortened general meeting.

### NOVEMBER 14<sup>th</sup>

General meeting and swap session. Critique of Annual Auction and raffle.

### DECEMBER 24<sup>th</sup>

Santa Brings Lots of Radio/TV Toys for All the Grown-up Big Boys.



Fleming Pat. No. 802,654  
De Forest Pat. Nos. 841,387-879,522

# A WARNING

to Manufacturers  
Importers  
Dealers  
Jobbers  
Agents  
Amateurs  
Purchasers  
Users of

## Vacuum Tubes The Marconi V.T. Patent is Basic

United States Letters Patent to Fleming, No. 803,684, November 7, 1905, has been held to be valid by Judge Mayer of the United States District Court for the Southern District of New York, and by the United States Circuit Court of Appeals for the Second Circuit.

It is a basic patent and controls broadly all vacuum tubes used as detectors, amplifiers or oscillators in radio work.

No one is authorized to make, sell, import or use such tubes for radio purposes, other than the owners of the patent and licensees thereunder. Any others making, selling, importing or using them alone or in combination with other devices, infringe upon the Fleming patent and are liable to a suit for injunction, damages and profits. And they will be prosecuted.

### THE AUDIOTRON AND THE LIBERTY VALVE ARE NOT LICENSED UNDER THE FLEMING PATENT

The price of the genuine Marconi V. T. delivered is \$7.00 each. The standardized socket is \$1.50 additional. The standard resistance, complete, costs \$1.00 and is made in the following sizes:  $\frac{1}{2}$  megohm, 1 megohm, 2 megohms, 4 megohms, 6 megohms.

Do not take chances by making, importing, selling, purchasing or using vacuum tubes for radio purposes not licensed under the Fleming patent. By selling, purchasing or using licensed tubes for radio purposes you secure protection under the Fleming patent and avoid the risk of litigation for infringement thereof.

This warning is given so that the trade and public may know the facts and be governed accordingly.

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136 Federal St., Boston, Mass.

301 Commercial Bank Annex, New Orleans, La.  
109 South 2nd St., Philadelphia, Pa.

When writing to advertisers please mention THE WIRELESS AGE

## BouldeRadio (Continued from cover)

stock at no par value which were to be issued.

The new headquarters were at 2015 Twelfth Street sharing rent with the L. E. Terry Electrical Supply Company. Boulderadio was organized to do general radio business at that location with Cassell in charge.

The objects and purposes of the company, as given in the articles of incorporation, were to "engage in, conduct and carry on the business of buying, selling, designing, manufacturing, constructing, repairing, operating, and generally dealing in radio receiving equipment and electrical appliances, apparatus, supplies, accessories, and machinery of every description".

By mid-December of that same year, one of Boulder's newspapers, the *News Herald*, reported in detail about the fledgling company and its founders:

"Scientific data on the radio obtained in an eastern laboratory by a (Colorado - *Ed.*) University graduate in electrical engineering, now an instructor in his alma mater, and later further developed by himself and two advanced students, has formed the basis for the incorporation of the Boulderadio Manufacturing company and the establishment of a factory in Boulder for the manufacture of a radio 'eight in line unit', whose increasing popularity indicates it will be enthusiastically accepted by radio fans in every section of the country.

"The company was incorporated by Wallace L. Cassell, University instructor in electrical engineering, last June, who took in with him H. Anderson, who has had two years in the mechanical engineering department, and C. B. Rosenberg, advanced U. M. C. electrical engineering student. Dean H. S. Evans, head of the University engineering department, was made president of the company, and Melvin C. Goss, Boulder attorney, legal adviser.

"Upon being graduated from the University in 1922, Cassell entered the employ of the General Electric

Company at Schenectady, N. Y., and was assigned to the radio perfection department. In this laboratory, he in connection with other employees worked out the super-heterodyne receiver on a commercial basis and he laid the foundation for a series of experiments and studies which later were to develop a process for the making of an intermediate frequency transformer, which in series with others, could all be tuned accurately, and also a transformer which would reproduce all audible tones equally. Up to that time radio makers were satisfied with frequency transformers connected in series, which were accurate only to a moderate degree.

"Cassell was later employed by the Mutual Electrical company at Wellesley, Mass., for experimentation, and when he left the commercial field and returned to the University as an instructor, he started to work at once with the experiments and studies which resulted in the origination of the unit now made by the local company. He was aided in the experiments and studies here by the two other students. Five years ago as a student, Cassell built the first broadcasting equipment for the University (That was 1921 - *Ed.*).

"The factory has been established at 1949 Pearl street where five persons are employed. It has an output of 150 machines a month and some time ago a contract was accepted from the Radio Stores, Inc., a wholesale firm of Denver, for the entire output. A total of 300 machines have been manufactured and delivered since the start. They have been introduced in five western states besides Colorado. Other states are: Wyoming, Utah, New Mexico, and some parts of Kansas and Nebraska, and within the past ten days the company has been obliged to turn down the offer of a contract from a large eastern company for 1,000 machines. In Boulder it is offered for sale by the L. E. Terry Electrical Supply Company, 2015 Twelfth Street, where Edward Van Cleave has charge of the city sales.

"The unit has been given the trade

(Continued on page twelve)



# SPECIAL CHRISTMAS and HOLIDAY SEASON OFFERS



Radio News lists below twenty-five special offers, as suggestions for Christmas Gifts. Here is your answer to the gift problem for this year. Every offer saves you money. And—don't forget your own subscription in making up your list. We will send a gift notification card to each subscriber without extra charge. New or renewal subscriptions accepted.

## SAVE MONEY ON THESE SPECIAL SUBSCRIPTION-BOOK COMBINATIONS

Offer No.	Radio News for	Price	Offer No.	Short Wave Manual	Price
1	2 years with "23 Lessons in Radio"	\$4.00	8	Short Wave Manual	\$.50
2	11 months with Radio Amateur's Handbook	\$2.00*	9	1001 Radio Questions and Answers	.50
3	11 months with 1001 Radio Questions and Answers	2.00	10	Radio Amateur's Handbook	.50
4	11 months with Short Wave Manual	2.00	11	Short Waves, by C. R. Leutz and R. B. Gable	3.00
5	18 months with Short Wave Manual	2.00	12	101 Radio Hook-Ups	.25
6	5 months with Radio Trouble Finder	5.00	13	Radio Trouble Finder	.25
7	5 months with 101 Radio Hook-Ups	1.00	14	How to Make It—Instructions for making things	.25

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Offer No.	Magazine	Price	Saving
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21	RADIO NEWS with Cosmopolitan	4.50	1.50*
22	RADIO NEWS with Saturday Evening Post	4.50	1.10*
23	RADIO NEWS with Boy's Life	4.00	1.40*
24	RADIO NEWS with True Story Magazine	4.50	1.50*
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\*Over Newsstand Price.

RADIO NEWS, Dept. R-1, 350 Hudson St., New York, N. Y.

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Radio News ♦ December 1926



# MEMBERSHIP NOTICE



The month/year next to your address on the back cover is your membership expiration date. Where appropriate, please renew at this meeting or see the inside front cover of this journal.

## BouldeRadio (Continued from cover)

name '8-in-line' from the number of radio tubes used. Application as been made to register the name with the United States patent department, so that it cannot be used by other manufacturers. A month ago a Chicago firm made as move to use the name but was stopped.

"With the exception of some other parts, all the equipment is made in Boulder, even to the wood cabinets which enclose the different units. Dies have been made to stamp out metal parts, the dies being taken to the Western States Cutlery Company plant for use, where the actual cutting is done. The wood parts are made in a wood shop in the city, the lumber from which they are built up being obtained from dealers here.

"An interesting study of the manufacture of the machine is an insight into the mechanism of a series of fine wire coils used. Each is wound with wire almost as fine as a hair, nearly four miles of wire being necessary for each coil. The coil adds greatly to the receiving power and the

tone volume of the finished product.

"The machine is destined to become very popular, it is believed, because of its excellent receiving power and also because of its moderate price. A radio receiving machine set built up on the Boulderadio unit sells from \$125 up, according to equipment desired. A number of Boulder radio fans have machines constructed on the '8-in-line' Boulder made unit and are high in their praises of the home product.

"Every unit carries a label 'Boulderadio Manufacturing Company, Boulder, Colorado' and this gives Boulder first-class advertising."

*(In our next issue...Boulderadio goes East, a look at the company's advertising through its sales brochure, and a short biography about a man who spent his life wrapped up in radio and Boulder, Hurlburt Anderson.*

*If you have any "Eight-In-Line" literature or one in your collection, for our next issue we'd love to use anything you might have. I have a picture of a large eight tube, two-dial set at last April's Show. Was that an "Eight-In-Line"? Please contact your Editor ASAP. Thanks!*

## A Date With Radio

(Continued from page 6)

### JANUARY

<24> On this date in 1926, the steamship Antiope lost her steering gear and was helpless in a fierce storm at sea. Tracing an S.O.S. from the stricken ship, it was found and most of her crew save.

(The letters S.O.S. can also stand for "SAVE OUR SOULS". See September/October *FLASH* for more. *Ed.*)

<25> A station in Minneapolis on this day in 1925 sent an announcer aloft in an aeroplane to broadcast a description of a solar eclipse.

<26> On this date in 1944 a station in Rochester, New York, began broadcasting "The Official Gallup Poll". (The results are no more accurate today! *Ed.*)

<28> "Ben Bernie and His Hotel Roosevelt Orchestra" was first heard on WEF in New York on this day in 1925.

## A Date With Radio

(Continued from page 6)

### FEBRUARY

<21> Weather forecasts and time checks were first broadcast by WEF in New York City as a novel experiment on this day in 1922.

<27> On this date in 1927, Calvin Coolidge addressed a joint session of Congress to become the first President heard on a coast-to-coast broadcast.

<28> Appeals from Chicago's premier station WLS on this day in 1928 brought \$4,800 for relief of tornado victims in Florida. (In some ways, little has changed in sixty-five years except the value of the dollar! *Ed.*)

<29> On this day in 1920, the University of Minnesota began to broadcast a music appreciation program. (Considering the date, we hope it included a rendition of "Hearts and Flowers" *Ed.*)

# Wanted / 48ale

## 48ale:

H.P. Dual Trace Professional Oscilloscope (cheap!) and several Signal Generators (also cheap!)...come take a look and make offer, please...

**David Boyle**

7169 West David Drive  
Littleton, CO 80123  
(303) 977 • 6988 (work)

## Wanted:

Information of any sort about the General Motors Plug-in Portable...

**Wayne Gilbert**

785 South Flamingo  
Denver, CO 80222  
(303) 321 • 6705

## Wanted:

R.C.A. CT-100 Color Television. Also, any TVs pre-war to 1950...

**Steve Coulam**

2401 Grove Street  
Denver, CO 80211  
(303) 477 • 2926

## Wanted:

Unusual transistor radios...novelty or early sets. Looking also for Sam's Transistor Service Manuals.

**Lee and Carolyn Bruton**

1140 South Reed # E  
Lakewood, CO 80232  
(303) 937 • 7325

*for every*  
**Christmas Radio Set**  
*use only genuine RCA Radiotrons*

## Wanted:

BC-946 Command receiver. Telefunken table model (Opus?). Also, 30's - 40's floor model AM-SW

**George Stringe**

3075 Moorhead Avenue  
Boulder, CO 80303  
(303) 494 • 9261

WANT ADS ARE  
ALWAYS FREE !!

## 48ale:

Eight tube Crosley R/P console Model 11-207 MU. \$50 or Best Offer...

**David Tripe**

1673 Macon Street  
Aurora, CO 80010  
(303) 364 • 2812

## Wanted:

Philco 90 Cathedral Cabinet (restorable). Also, Philco 90 Speaker (any shape!)

**David Boyle**

7169 West David Drive  
Littleton, CO 80123  
(303) 977 • 6988 (work)

## Wanted:

Emerson Model CV chassis, working or not. This is an AC/DC chassis used in several table models from the mid to late 30's. Might buy a complete set to get this chassis

**Dick Hagrman**

3429 West Berry Place  
Littleton, CO 80123  
(303) 794 • 6674

# YE OL' JUNK BOX

## "Streaks" Through Tek Plant

Beaverton, Oregon - March 8, 1974

A female streaker was cheered by fellow assembly line workers at Tektronics, here. While management wouldn't talk about it, the incident was described by eyewitnesses at the plant.

"A bunch of guys pooled a hundred bucks and dared her to streak for it!", according to one source. Described as an attractive brunette of about age 30, she is reportedly accepted the challenge.

"She ran totally nude through the main aisle of the assembly building with men and women cheering her on", another source related. "After she dressed she was given a corrective interview and sent home by her supervisor."

(Unlike the Hula-Hoop, this is one fad at least some of us would like to see return! *Ed.*)

## THE FAT LADY SINGS....

Dateline: December 1974

The Singing Telegram is no more! Started in 1933 and very popular in the late 30's, the melodious message passed from the communications scene recently when the California PUC finally allowed Western Union to withdraw its offering. The singing greeting service had already discontinued business in 45 states and the District of Columbia.

With the demand averaging only twelve singing telegrams a day (at \$3.75 each) and with Western Union having trouble finding operators willing or qualified to warble.....the bell has tolled for the singing telegram.



Gimble's Santa listens to kids at WGBS (N.Y.C.) party - *Radio World* December 20, 1924



# Wanted / 48ale

## 48ale:

Victor Talking Machine...upright windup phonograph. Most work is done...\$200

**Barney Wooters**  
8303 East Mansfield Ave.  
Denver, CO 80237  
(303) 770 • 5314

## Wanted:

One, two, three tube, or transistor sets of any vintage. Basket case or parts sets. Also, WD-11 (tubes) duds.

**Ray Kushnir**  
2213 Alpine Drive  
Colorado Springs, CO 80909  
(719) 634 • 5861

## Wanted:

- 1.) Two knobs for Emerson Model 520
- 2.) One knob and plastic dial cover for the General Television "piano"
- 3.) Mitchell Lumitone rocket-shaped lamp radio

**Neil Gallensky**  
10398 Zenobie Court  
Westminster, CO 80030  
(303) 466 • 0976

## 48ale:

R.C.A. Floor Model AM - 45 RPM for ???

**George Stringe**  
23075 Moorhead Avenue  
Boulder, CO 80303  
(303) 494 • 9261

## Wanted:

"Rider" Radio Manuals Numbers 19 through 23. Also, speaker base with driver for Atwater Kent Model "L" horn.

**Jerry Tynan**  
1184 Rudi Lane  
Golden, CO 80403  
(303) 642 • 0553

## Trade:

Zenith Royal 3000

**Ray Kushnir**  
2213 Alpine Drive  
Colorado Springs, CO 80909  
(719) 634 • 5861

## Wanted:

Early vacuum tubes...good or bad. Colin B. Kennedy model 521 amplifier.

**Barney Wooters**  
8303 East Mansfield Ave.  
Denver, CO 80237  
(303) 770 • 5314

## Wanted:

Stromberg Carlson Model 535-M console and also seeking Zenith TransOceanic Model 7000

**David Tripe**  
1673 macon Street  
Aurora, CO 80010  
(303) 364 • 2812



## CONTRIBUTIONS NEEDED



Seeking articles and stories relating to radio, TV, or associated equipment for use in our publication. Tips, suggestions, hints, and descriptions of restoration techniques solicited

**Colorado  
Radio  
Collectors**

1249 Solstice Lane  
Fort Collins, CO 80525-1239



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