

CROSLEY RADIO WEEKLY



AND WLW PROGRAMS

PUBLISHED BY THE CROSLEY RADIO CORPORATION, FORMERLY THE PRECISION EQUIPMENT COMPANY AND CROSLEY MANUFACTURING COMPANY, Manufacturers of Radio Apparatus, Cincinnati, Ohio.

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APRIL 14, 1924

Radio Aids Hanson In His Fight For Recovery Of Health

Crosley Distributor Gives Receiving Set Credit for Rapid Recovery — Bed Springs Used As Aerial.

John Hanson, of Waterloo, Iowa, member of the Standard Battery and Electric Company, Crosley distributor, is rapidly recovering from the effects of a serious operation, and is giving credit to radio for the remarkable improvement in his health.

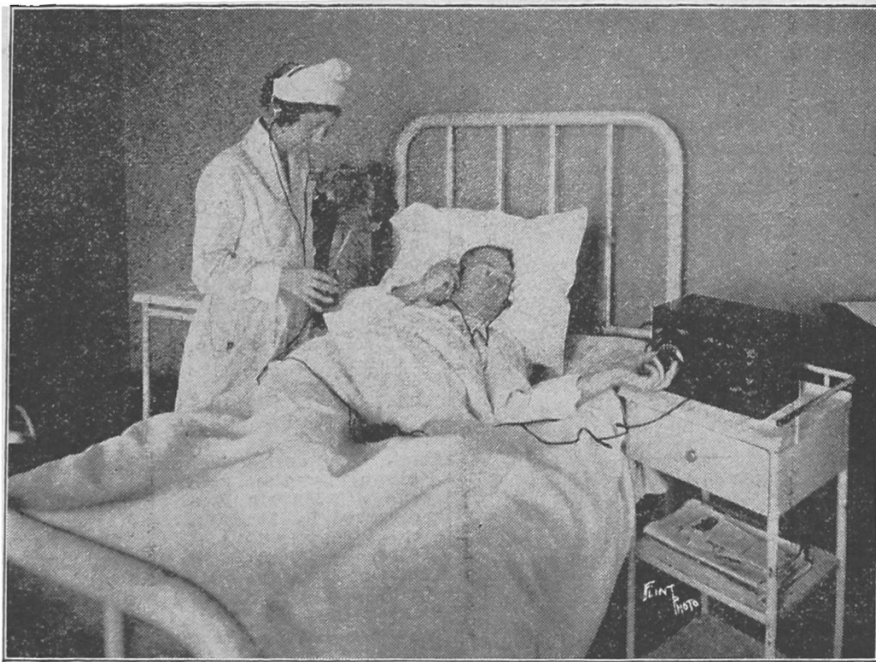
In the picture on this page he is seen in his room in the Presbyterian Hospital, Waterloo, with his nurse, Miss Marion Shauger, both of whom are enjoying a radio concert. The set they are using is a Crosley Model 51, a two tube Armstrong regenerative receiver.

Mr. Hanson is using his bed springs as an aerial and has been hearing such stations as those in Cincinnati, Davenport, Omaha, Kansas City, Chicago and many others. The picture would indicate that music is mightier than medicine, and it is noticed that Mr. Hanson is not the only one enjoying the radio. His room is headquarters for nurses who come in to listen to the music that is being brought here by means of his radio receiver. Much of the lonesomeness that a patient must endure while recuperating in a hospital can be done away with, Mr. Hanson says, if a small radio set is installed in his room. It disturbs no one and still provides wholesome entertainment, news, etc.—things that go a long way toward a speedy recovery.

WASHINGTON AND ROME IN COMMUNICATION BY RADIO

Since February 20th, the Navy Communication Service at Washington has been in daily touch with the San Paolo radio station at Rome. This circuit, closed as unreliable some time ago, was recently reopened with "IDO," San Paolo, a new radio transmitting station in Italy, which operates on a wavelength of 10,750 meters. The messages come to Washington on a loop receiver in the Navy Building over a distance of about 4,500 miles, but get out from station "NSS" at Annapolis on 17,145 meters. Communication is not effected except between 11 and 12 midnight each night, and so far only eight or ten messages have been exchanged a night.

GETTING WELL BY RADIO



The above picture is that of John Hanson, Crosley radio distributor in Waterloo, Iowa, who recently underwent a serious operation. Mr. Hanson is giving to radio full credit for his rapid recovery. The picture shows him listening in with a Crosley Model 51.

Many Realizing Wonderful Value Of Tuned Radio Frequency Amplifiers As Incorporated In Crosley Sets

In a recent letter from one of the owners of a Crosley radio receiver, emphasis was placed on the fact that other manufacturers rapidly are realizing the value of tuned radio frequency amplification, which, for two years or more, has been the predominating feature of Crosley products. This letter came from an owner of one of the first tuned radio frequency sets produced by the Crosley corporation—a man who has watched with the greatest interest the rapid and extensive expansion of the radio industry.

He referred to the fact that when Crosley tuned radio frequency sets were announced, there was a certain amount of skepticism on the part of a few engineers who were not well acquainted with the advantages conferred by such a feature. However, he pointed out, during the year that followed the announcement of these tuned radio frequency receivers there was such a tremendous demand for them that radio engineers began extensive investigations into the value of sets that included such units. The result has been that many radio manufacturers are following in the footsteps of the Crosley Corporation and are adding tuned radio frequency amplifiers to their receiving sets. In this connection it is interesting to note the increased amount of publicity being given to tuned radio frequency in the newspapers and magazines throughout the United States, and it is still more interesting to note the connection between this publicity and the features that have been incorporated in Crosley receivers during the past two years. Just this week there appears in the radio section of the Philadelphia Public Ledger an article signed by Gordon O. Wilkinson in which he states that "any radio receiver, to be effective, must depend upon one or two things, or both. It must have either radio frequency amplification, regeneration, or both."

This statement coincides precisely with the idea of Powel Crosley, Jr., who, for many, many months has been manufacturing either tuned radio frequency receivers or regenerative receivers, and who, just last week, announced a new three-tube set, known as the Trirdyn, which includes both. The Trirdyn, having passed through a thorough test from every angle, and after practical use by

(Continued on Page 6)

Thousands of Phone Messages From Radio Listeners are "Lost"

Enthusiastic Fans Cripple Service During Concerts Broadcast from Station WLW.

The radio audience feels it must express itself immediately after hearing some selection that appeals to it, and the quickest way is found in the telephone. The telephone gives instantaneous results to the enthusiastic fans who want to tell the artists how good their work was received and how much Aunt Lizzie and Uncle Harry enjoyed the song about the "Old Spinning Wheel, or "Somebody Else Is Stealing My Sweetie's Kisses." All this pep and enthusiasm is fine but just see what it does to the telephone lines in the WLW broadcasting station of The Crosley Radio Corporation in Cincinnati:

A comparison of the completed call and busy reports on the trunk group, West 7600, shows traffic on a night when the program was broadcast in which attention was called to the fact that anyone reporting upon the program by telephone would receive suitable acknowledgment and also on a night when the regular program was given.

Between the hours of eight and nine o'clock on a telephone contest night, only 108 telephone calls were completed while 2382 calls could not be handled and were accordingly "lost". On another evening, between the hours of nine and ten o'clock, 122 calls were completed to the studio, while 1974 were "lost" because it was impossible to handle them.

Applause, whether it be of the telephone or the mail variety, is a means of encouraging the radio artists who have no immediate audience to appeal to. A small microphone, on a pedestal, is their audience and into its delicate mechanism their voice goes, to be amplified and broadcast to the listening audience throughout the world. It is when this voice reaches the audience, that it feels the audience must respond and everyone rushes to the telephone and calls the Crosley studio. It is hardly necessary to add that the telephone operators are kept busy all during the two-hour program.

Crosley WLW Programs For Week of April 13th

SUNDAY

RADIO PROGRAM W L W

The Crosley Radio Corporation
Cincinnati, Ohio
April 13th. Central Standard Time
309 Meters.

9:30 A. M.—
School conducted by the Editorial Staff of Sunday School Publications of the Methodist Book Concern.
11:00 A. M.—
Services of the Church of the Covenantant, Dr. Frank Stevenson, Minister.
2:30 P. M.—
Memorial Service of Cincinnati Lodge Number Two, Loyal Order of Moose.
7:30 P. M.—
Church Services in honor of the 100th Anniversary of the Madisonville M. E. Church, D. L. Seward, Minister.
8:15 P. M.—
Concert by the Western and Southern Orchestra, directed by William Kopp, (Under the auspices of the Welfare Association of the Western and Southern Life Insurance Co.)

MONDAY

RADIO PROGRAM W L W

The Crosley Radio Corporation
Cincinnati, Ohio
April 14th. Central Standard Time.
309 Meters.

10:30 A. M.—Weather Forecast and Business Reports.
1:30 P. M.—Business Reports.
3:00 P. M.—Market Reports.
4:00 P. M.—Babson Reports.
8:00 P. M.—
College of Music Presents "AN HOUR WITH SCHUBERT"
Biographical Sketch and Descriptive Reading by Mr. Fred Smith, Studio Director.
First Movement Quartette No. 2
ORPHEUS STRING QUARTET
Soprano Solo:
Lillectra Schubert
Mrs. Louis Poock
Cello Solo:
Cradle Song Schubert
Mr. Arthur Knecht
Contralto Solos:
Omnipotence Schubert
Serenade Schubert
(with string quartet accompaniment)
Mrs. Beatix Chipman
String Quartet:
No. 2 (second movement)
..... Schubert
ORPHEUS STRING QUARTET
Soprano Solos:
Malden's Prayer (Faust)
..... Schubert
The Erl King Schubert
Miss Mary Elizabeth Yager
FINALE:
Last Movement from 2nd Quartet
..... Schubert
ORPHEUS STRING QUARTET
W. C. Stoess, First Violin; Karl A. Payne, Second Violin; Milton Dockweiler, Viola, and Arthur L. Knecht, Cello.
9:00 P. M.—
Crosley Theatrical Review, followed by the Woody Meyer's Cincinnati

nati Orchestra.
Ted Kennedy, Director and Violinist
Ernest Meyer, Manager and Drums
Wm. Dinkel, Piano
Earl Vetter, Saxophone
Robert Seavers, Saxophone
Tenor
Rudolph Schneider, Trombone
Cliff Yeager, Trumpet
Wm. Rieth, Banjo
Wm. Wilde, Bass Tuba and Violin
playing: "Adoration Waltz," "My Sweetheart," "The End of the Rainbow," "The One I Love," and others released by the National Association of Broadcasters.
(Baldwin Piano)

TUESDAY

RADIO PROGRAM W L W

The Crosley Radio Corporation
Cincinnati, Ohio
April 15th. Central Standard Time.
309 Meters.

10:30 A. M.—Weather Forecast and Business Reports.
1:30 P. M.—Business Reports.
3:00 P. M.—Market Reports.
4:00 P. M.—Topics of Interest to Women. Times-Star News.
10:00 P. M.—
Entertainment by the Band of the Hamilton County Knights of the Ku Klux Klan.
Leonore Pilgrim Schwab presents
The Pilgrims.
1. Trombone Solo:
Am Meer Schubert
Master Norman Pilgrim, Richmond, Ind.
Miss Ellen Pilgrim at the Piano.
2. Cornet Solo:
Killarney Balfe
Garth Pilgrim, Richmond, Ind.
Miss Ellen Pilgrim at the Piano.
3. Soprano Solo:
Oh Father Hear Me
..... W. Francis Smith
Leonore Pilgrim Schwab, Hamilton, Ohio.
Miss Ellen Pilgrim at the Piano.
4. Duet:—Trombone and Cornet.
(a) My Paradise Waltz
..... Zamecnik
(b) The Bulldog Lake
Norman Pilgrim, trombone
Garth Pilgrim, cornet
Miss Ellen Pilgrim at the Piano.
5. Soprano Solo:
Wiegenlied Mozart
Leonore Pilgrim Schwab, Miss Ellen Pilgrim at the Piano.
THE MASKED SERENADERS
Carelton F. Rust, Director and Pianist
George A. Meade, manager and Drums
Richard Rye, Alto Saxophone
Hamer Rye, C Melody Saxophone
Emil Hostettler, Trombone
Orvin Glemser, Violin
Clarence Wright, Banjo
playing: "Forget Me Not," "I Hate You," "Holding Hands," "Dimpled," "Hoodoo," "From One Till Two," "My Sweetheart," and others released by National Association of Broadcasters.
(Baldwin Piano)

WEDNESDAY

RADIO PROGRAM W L W

The Crosley Radio Corporation
Cincinnati, Ohio
April 16th. Central Standard Time.
309 Meters.

10:30 A. M.—Weather Forecast and Business Reports.
1:30 P. M.—Business Reports.
3:00 P. M.—Market Reports.
4:00 P. M.—Program for the "Shut Ins" by the Wurlitzer Concert Co.
7:15 P. M.—
Selections from "If Wishes Were Horses," a Musical Play by Mr. and Mrs. William Smith Goldenberg, presented by members of the JUNIOR SHOW SHOP PLAYERS of the Goldenberg School, including a talk on aims, purposes and methods of the Junior Show Shop by Mrs. Goldenberg.
8:00 P. M.—
"All About Stamp Collecting"—Mr. E. B. Power.
8:15 P. M.—
Choir Concert, "The Crucifixion," given by the combined choirs of the St. Mark's Evangelical Church, directed by Mr. Walter J. Berg and the Plymouth Congregational Church; Miss Goldie Taylor, Organist. Soloists: Mr. Howard Hartford and Mr. Howard Fuldner.
8:45 P. M.—
Medicine in the "Days of King Tutankhamen."
Dr. Caswell A. Mayo.
9:00 P. M.—
Special program by the Warner & Swope Coon Dog Orchestra, furnished through the courtesy of the Kincaid-McKinley Company Department Store, Radio Department, Georgetown, Ohio.
Members:
Charles Warner, Violin
K. Dunham, Violin
Charles Watson, Violin
Bob Woster, Cello
Wm. Swope, Banjo
Bob Carington, Banjo
John Cox, Guitar
Lou Harris, Guitar
A few of the selections to be played by the above Orchestra: "Stonewall Jackson," "Big Fat Gal," "Garfield March," "Bob Walker," "Horn Pipe," "Turkey in the Straw," "Little Brown Jug," "The Old Coon Dog," "Maggie," "Devils Dream," "Irish Wash Woman," "Kings Head."
(Baldwin Piano)
THURSDAY
RADIO PROGRAM
W L W
The Crosley Radio Corporation
Cincinnati, Ohio
April 17th. Central Standard Time.
309 Meters.
10:30 A. M.—Weather Forecast and Business Reports.
1:30 P. M.—Business Reports.
3:00 P. M.—Market Reports.
4:00 P. M.—Piano Solos by Miss Adelaide Apfel. Talk by Representative of the League of Women Voters.
10:00 P. M.—
Concert of the Junior Faculty of the Cincinnati Conservatory of Music.

Songs:
My Lips Are Sealed Bleichman
Thou Art Like The Dawn... Wrangel
Mrs. Saylor Wright
Violin Solo Selected
Mr. Heiman Weinstein
Songs:
Cuddle Down Town, Just A Little While, Immortelles
..... Corrinne Moore Lawson
Mrs. Mary Towsley Phau, the Composer at the Piano
Piano Solo:
Concert Arabesque (Blue Danube)
..... Strauss-Schultz-Evier
Mrs. Jemmie Vardeman
Reading:
Sundried Edna Ferber
Miss Margaret L. Spaulding
Duet:
Passage—Birds Farewell Hildach
Mrs. Wright
Mrs. Phau
Violin Solo Selected
Mr. Heiman Weinstein
Songs:
Who Knows Stickle
All For You Brown
Mrs. Saylor Wright
Songs:
Air de Salome (Herodiade)... Massenet
Ecstasy
Mrs. Mary Towsley Phau
Mrs. Thomie Prewett Williams
at the Piano.
11:00 P. M.—
Special Features and DOHERTY'S MELODY BOYS
F. A. Pendergast, Piano
Ridge Bludin, Trumpet
Leo Bludin, Saxophone
Blake Holthaus, Drums
Harry Kennedy, Trombone
J. L. Doherty, Banjo and Manager
playing: "After the Storm," "From One Till Two," "My Sweetheart," "Memory's Garden," and others released by the National Association of Broadcasters.
(Baldwin Piano)

FRIDAY

RADIO PROGRAM W L W

The Crosley Radio Corporation
Cincinnati, Ohio
April 18th. Central Standard Time.
309 Meters.

10:30 A. M.—Weather Forecast and Business Reports.
1:30 P. M.—Market Reports.
3:00 P. M.—Stock Quotations.
4:00 P. M.—Special Program. T. C. O'Donnell, Editor of Writers Digest, begins a series of lectures on "Journalism."

SATURDAY

RADIO PROGRAM W L W

The Crosley Radio Corporation
Cincinnati, Ohio
April 19th. Central Standard Time.
309 Meters.

10:30 A. M.—Weather Forecast and Business Reports.
1:30 P. M.—Market Reports.

A good pair of telephones is necessary for the successful operation of any receiver, and especially a crystal set.

CONDENSED TIME TABLE OF WLW BROADCASTING STATION OF THE CROSLY RADIO CORPORATION

970 KILOCYCLES, 309 METERS CENTRAL STANDARD TIME CINCINNATI, OHIO

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9:30 A. M.	10:30 A. M.	10:30 A. M.	10:30 A. M.	10:30 A. M.	10:30 A. M.	10:30 A. M.
11:00 A. M.	1:30 P. M.	1:30 P. M.	1:30 P. M.	1:30 P. M.	1:30 P. M.	1:30 P. M.
	3:00 P. M.	3:00 P. M.	3:00 P. M.	3:00 P. M.	3:00 P. M.	
	4:00 P. M.	4:00 P. M.	4:00 P. M.	4:00 P. M.	4:00 P. M.	
	8 P. M. to 10 P. M.	10 P. M. to 12 P. M.	8 P. M. to 10 P. M.	10 P. M. to 12 P. M.		

Crosley Radio Weekly

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 Robert F. Stayman
 Editor
 Alvin R. Plough
 Associate Editor

RADIO AND WELFARE WORK

The Welfare Association of the Western and Southern Life Insurance Company is genuinely thrilled with the assurance that its efforts to bring joy to unfortunate shut-ins by means of radio concerts is eminently successful. No declarations of ours could be half as convincing as sentences gleaned from the seven hundred letters and post cards that came in after the initial program of March 16th, and so we follow with several of these:

From W. H. Kiefer of St. Joseph, Missouri: "With a regular blizzard raging, snow blowing, etc., I received your Sunday evening program delightfully on my loud speaker."

From St. Aloysius Orphanage of Bond Hill: "The children of St. Aloysius Orphanage listened to your beautiful concert last Sunday evening. It was a real treat for us. We were overjoyed when the announcement was made that a similar concert would be given every Sunday evening."

Here's one from right across the river, in Newport: "The music came in fine Sunday night. I had no telephone, so I couldn't call up. The music was sure great. It came in clear, soft and sweet. I am one of the many poor people who are overjoyed with your programs."

Mrs. Andrew J. Johnstone, who lives near Bloomington, Illinois, (R. R. No. 4) says in her letter: "Your program of Sunday night was beautiful and very much appreciated. We live in the country, and our roads have been very bad all winter. In fact I have not been in town for twelve weeks."

This is, fundamentally, the kind of applause which the Welfare Association solicits for the Western and Southern Orchestra. What welfare work could be more wonderful than scattering the sunshine of good music to not only those who are kept at home because of ill health, temporary or constant, but to all whose situation in life makes it impossible for them to travel far or pay dearly to hear an orchestra play the world's sweetest melodies?

Pleased indeed are those who have participated in this new plan of disseminating joy, especially William Kopp, director of the Western and Southern Orchestra. It

is he who played so beautifully the cornet solo in "The Rosary," and so enthusiastic has he become concerning the entire plan, that he has promised to play some favorite song practically every Sunday evening. Add to this the individual work of such well-known personages as Dan Beddoe and Helen Schuster-Martin, and the Welfare concerts of Sunday evening at WLW become assured of an ever increasing popularity.

The time of these concerts has been permitted through the broad-minded co-operation of Dr. Frederick McMillin of the First Presbyterian Church of Walnut Hills; for he has rearranged his entire evening service in order that it might appeal more to the radio audience, beginning at 7:30, and leaving the announcements and details that have local interest only until after the hymn concluding his radio program.

YE OLD DAYS BACK

In the days of old,
 When the big clock tolled
 The hour of twelve or one,
 We didn't blink
 But ordered a drink—
 For the fun had just begun.

Then came the news
 Of the Volstead Blues,
 But perhaps after all t'was best:
 So early to bed and early to rise,
 We were forced to put to test.

It wasn't half bad,
 And it made you feel glad
 When you woke from a good
 night's snooze,
 Feeling fit to do your bit,
 And to watch you P's and Q's.

But a change has been wrought,
 That sleep was for naught,
 For now, at the break of day,
 When you hear a hiss you're afraid
 you'll miss
 What some announcer has to say.

But after listening in,
 To the crash and din,
 Over wave lengths far and near,
 You will have to get in step
 If you want more PEP
 Than you get from Crosley's
 here.

So we're back again to the days
 of old,
 To the hours of twelve and two;
 But you'll feel repaid for having
 stayed
 When you've heard their "GOOD-
 NIGHT" to you.

H. Y. Walton.
 Mt. Auburn, Cincinnati, Ohio.

UNIQUE

A teacher was instructing a class in history.
 "Tommy Jones," she said, "what was there about George Washington which distinguished him from all other famous Americans?"
 "He didn't lie," was the prompt answer.

English May Become Universal Language As Result Of Radio

America Leading World In Development of Wireless and Broadcasting—Stations "Reaching Out."

(Copyright, 1924, by Carl H. Butman)

Washington.—Broadcasting was born in America and it is natural that this country should lead the world in this art and its associated industries. Many of the 561 broadcasting stations, however, are not satisfied with transmitting radio programs throughout the North American Continent. Some of the 50 high-powered Class B stations, all of which are rated at 500 or more watts, and nine are of 1000 watts power, are ambitious to entertain the whole world. This long-distance broadcasting is extending the use of the English Language materially.

It is possible, and some think it probable, that within the space of a few years, English may come to be the universal language through the use of the radio-phone. Commercial and amateur radio telegraph messages in English also have considerable influence upon this growing use of our language. Just as Latin is the language of the classics and professions; German, the language of science; and French, of diplomacy, so English may become the speech of communications and commerce.

Radio messages telegraphed from American stations have extended half way round the world already and radio broadcasting, practically a quarter of the distance, according to Secretary L. E. Whittemore, of the Governmental Inter-departmental Radio Committee.

American broadcasting stations are many times as numerous as those in any other country, and most of these stations are more powerful than foreign voice transmitters. Linked into an all-English system, which would include

the British Colonies and our insular possessions, an extensive broadcasting net carrying the Anglo-Saxon word around the world is predicted. An international language will have to be developed if English or the so-called universal languages, Esperanto or Ido will not suffice, Mr. Whittemore points out.

Radio developments in practically all countries are reported weekly by our consular service. In many lands, American radio apparatus is sought. Last year, American radio exports totaled \$3,448,112, averaging around \$350,000 a month in exports to forty countries, and shipments are rapidly increasing. In December the only countries which did not receive at least a few dollars worth of radio apparatus from the United States were Greenland, Ecuador, Venezuela and Guatemala.

Trans-oceanic reception of U. S. broadcasts began last year, and now almost every night one or two American stations are heard in England and France. American stations have also been reported in Hawaii. Broadcasting from the States is heard regularly in Alaska, and every once in a while the acknowledgment of a program comes from distant points in South America. A broadcast from Chicago, intended for the Arctic, was reported as received in Samoa, a quarter way round the world, and also one from Los Angeles.

In Great Britain, where more American stations are heard than those of any other foreign country, local fans have an advantage over their cousins of this side of the Atlantic. Radio waves travel far better in the night than in the daytime, and for this reason we seldom hear British stations unless they are transmitted after dark here, or about midnight in England. The British Broadcasts arrive here when we are in the midst of our evening programs. On the other hand, when it is eight p. m. on our Atlantic Coast, it is one a. m. in London. If English fans wait until this hour, when most British stations have signed off, they have

(Continued on Page 6)

SUBSCRIBE NOW!

Detailed information regarding the development of receiving and broadcasting, interesting news and feature stories and advance programs of WLW are to be found in the Crosley Radio Weekly. This is the must up-to-the-minute paper of its kind in the radio field, and should be in the home of every owner of a radio receiving set. Information contained in every issue is of the greatest value to you. The subscription price is but \$1.00 per year. Subscribe now.

Name
 Street and Number
 City and State
 Attach \$1.00 and mail this to the Crosley Radio Weekly, The Crosley Radio Corporation, Cincinnati, Ohio.

For Radio Dealers

From among the many pictures of window displays submitted by Crosley dealers, the one sent in by the Benson Radio Company, 926 Pine street, St. Louis, Mo., has been selected as the best. A picture of the display appears on this page. The Benson Company will receive the ten dollar prize offered by the Radio Weekly, and efforts will be made to have the picture published in other radio papers. All this, however, is nothing compared with the tremendous amount of business brought to the Benson store as a result of the window display. But we will let Mr. Nat M. Binns, of the Benson Company, tell of the manner in which the window display benefitted the company:

"It has been the most profitable merchandising window that we know of in our four years of retail experience. The display has created a real interest in the buying public in regard to Crosley merchandise. The sales are not confined to any one particular model. The results obtained from this display have been a very agreeable surprise to us. We will endeavor at all times to display Crosley merchandise intelligently in one of our windows and would like to have your permission to submit to you photographs from time to time of those we think have meritorious selling values."

Edward L. Doheny, who has been so much in the limelight since the discovery of oil in Washington, is reputed to be one of the three richest men in America.

Up to the time he was forty he lived a hit or miss existence. He was a prospector. He had chased all over the continent seeking gold and silver. The more remote the place, the more it appealed to him.

One day he was sitting on the front porch of a little hotel on the outskirts of Los Angeles, wishing he had the money to go to some God-forsaken place in Mexico. He noticed a wagon load of dirt go by. It looked tarry and greasy. It interested him.

He asked the negro driver where the earth came from, and was told that it came from Westlake Park. He jumped on a street car and hurried there.

Thirty feet below the surface Doheny and his partner later unloosed a stream of liquid gold that was destined to pour millions into their pockets and make rich the landowners who had always supposed that "breer" was just "breer".

There are a lot of Dohenys among the radio salesmen of today. They, too, think that fortune lies afar off. If they were only somewhere else they know they would do better. If these men would only look for fortune right in their own territories, they would find it, just as Doheny found his oil, for it is there.

Winner Of Crosley Window Display Contest



Above is a picture of the window display that won the contest recently conducted by the Crosley Radio Weekly. The display is that of the Benson Radio Company, 926 Pine Street, St. Louis, Mo.

The outlook for summer interest in radio was never better according to many dealers. Inquiries which have been made by fans about sets indicate that many will take them into the country during the summer and will enjoy radio programs on an outing.

A prominent radio expert from New York recently declared that last year New Yorkers enjoyed radio programs throughout the summer. He said that in the summer of 1922 people listened to a lot of talk about static and did not care to try out the sets that summer. Last summer, the people began to listen in and found that they could hear New York programs and enjoy them, even tho they could not always get Los Angeles.

"This talk of static making a radio set worthless is foolish," declared the New York man. "We used to think we could not eat ice cream in winter and that we would ruin our cars to drive them through cold weather. Now we order ice cream in January and ride to and from the city all winter in our automobiles. It is just the same with radio. If we do not try them out in summer we never shall be able to know whether they will "work" or not.

"I'll venture to say that there will be a great deal of radio activity all summer long. I know there will be in New York. Why shouldn't there be? It is not necessary to get Los Angeles every night to hear good programs. You have

good programs so close that it is not reasonable to think that this talk of static will make a difference.

"Really, when the fans were not as expert in tuning as they are now and when the sets were not as well made or understood by the operator, most of the noises blamed on static were the fault of the operator of the set. With the increased experience of the fan and his better set, he will find that he will not be bothered much this summer by noises. At least that has been the experience in New York, and I have actually gone through it myself."

The Orgill Brothers Company, of Memphis, Tenn., will act as Crosley distributors in the Memphis territory. This company is one of the largest distributors of hardware and mill supplies in the South. Mr. Frank Butler is in charge of the radio and electrical department.

The largest distributors in the United States are realizing the wonderful merchandising possibilities of the Crosley radio line, and either have tied up with it or are making arrangements to do so. We are very pleased to announce the addition of the Woodward-Wight Company, Ltd., to the list of Crosley distributors. These people operate the largest supply house in the South, and have been in business since 1867. Mr. Wygant is in charge of the radio and is a very able man.

A VIOLIN SODA

Little four-year-old Florence Woestman was listening to WLW: "Mother you ought to hear this," she said.

"What is it?" the mother replied. "Yes, it's a violin soda."

Now, Florence's father, who is a druggist, is featuring "violin sodas."

By the time a man learns to behave himself, he is entirely too old to do anything else.

Don't get wires tangled and snarled. A kink in a wire will cause it to crack or break.

Genuine Radiotron Tubes

WD-11	\$5.00
WD-12	5.00
UV-199	5.00
UV-200	5.00
UV-201-A	5.00
UV-202	5.00

We carry a large stock of tubes at all times and will make prompt shipment of any of the above upon receipt of remittance to cover. We also are distributors of radio apparatus made by

The Crosley Radio Corporation.

THE JOHNSON ELECTRIC SUPPLY CO.

232 East Fifth St., 331 Main St. Dept. A. CINCINNATI, OHIO.

DX Fans Are Urged To Listen For Radio Messages From Mars

Planet To Be But 35,000,000 Miles from Earth In August —Noted Scientists to Try to Establish Communication.

Next August the planet Mars will be nearer the earth than it has been at any time in the last 120 years.

It will be only 35,000,000 miles away which, in terms of DX, reminds us that then will be the time, if ever, to attempt communication with the mysterious world so many million years our senior.

Indeed, the attempt will be made. If, as many learned astronomers claim, the planet is inhabited, it is logical that the inhabitants have reached a state of intelligence far in advance of ours. They will, consequently, be as alert as we for the experiment.

Some five or six years ago radio experts recorded strange long-wave signals, which they deduced came from another planet.

This Summer the most concerted and ingenious attempt at reaching Mars either by radio or light waves or by both will be made, from the summit of the Jungfrau, 14,000 feet up in the Alps.

Astronomers from practically every civilized country will be on hand with other scientists, many of whom now at the University of Berlin, are already making elaborate preparations.

Through powerful lenses they will observe the red planet and seek signs of activity after which signaling will be attempted.

The work will consume the entire month. Among the many instruments will, of course, be a powerful long-wave radio transmitter of the arc type with a tremendously powerful input.

The wave-length of this transmitter will be somewhere around 15,000 meters—the same wave-length on which the mysterious signals, said to have come from Mars, were received all over the world several years ago.

Installed with this transmitter will be a receiving set of a most elaborate design built to receive on this exceptionally high wave-length.

In connection with this arrangement, Marconi has been active in recent months in building a transmitter also, to radiate on very short wave lengths, but the peculiar feature about it is that it will radiate these waves in only one direction. This transmitter, it is said, will be directed toward Mars at the time the high waves are being transmitted.

An interesting question is raised as to what particular advantages

(Continued on Page 6)

AUNT HETTY DISCUSSES RADIO

By Mary C. Barnett

The way the subject come up was like this: Henry and me, night before last, was over at Eli Bray's, livin' two fields away, and we had a heap of pleasure listenin' at the music and speeches and things comin' in over the Brays' wireless; and next mornin', while we was gettin' breakfast (Henry always makes the coffee and sets the table while I make the biscuits and fry the meat), we was talkin' about the wonder of it, hearin' a band in Texas, singin' in Pennsylvania, and preachin' in Ohio, all in a few minutes.

"It's great, plum great," says Henry, "to think what a blessin' this here radio business is to invalids and wimmen tied down with little children, and other stay-at-homes. There's Ed Bray, now; ain't walked a step in ten year, settin' there all dressed with rheumatiz, and the other night he heard that Chicago choir singin' 'Rock of Ages' and 'Just as I Am,' and that preacher preachin' a sermon, the like of which Uncle Ed had never heard in all his life, and—"

"It's a merrycle, nothin' less," I answers him. "Come on to breakfast, Henry."

After I was done askin' the blessin' I says, "Do you know, if I have good luck this summer with my chickens and garden sass and things, I'm goin' to buy one of them machines?"

"I'm with you there, Hetty," says he. "Pass me the biscuits. I'll help you out on it when I sell the calves."

"I low," I observes, pourin' coffee for both of us, "that we would get a lot of solid comfort out of it, specially long winter nights."

"I wouldn't wonder," continues my pardner, pourin' his coffee into his saucer to cool, and swiggin' it loud and deep, which I have tried to break him of, but a body has to use a lot of patience with men-folks, "I wouldn't wonder if, before long, this here radio would nigh about shut up the churches and put the preachers out of business—pass the gravy—ain't no use to worry around goin' to meetin' when you can set comfortable at home and hear bigger and better preachin' and singin' and everything, and—"

Now Henry ain't what you might call an intense church-goer. He goes when it ain't too hot or too cold or too wet or too dusty, and he is feelin' extra well and they ain't no work on the farm that has to be did, and he pays the preacher regular, when his bills is all paid and he has some loose change in his pocket; but Henry ain't what you might call a meetin' fan, and it riled me to see him settin' back there prophesyin' like Job on the ash-heap, and I replied that I lowed he'd have to be a sight older

than Methusaly before he seen a sight like that.

"Well," he says—"pass the biscuits—wouldn't be much loss here. Bro. Jones ain't no shakes of a preacher nohow, and preachers and churches is a sight of expense to keep up, like an autermobile," he says. "I wisht you would pore me a leetle mite more coffee. It ain't the first cost that gets you; it's the upkeep!"

"No," I agrees with Henry, "Bro. Jones ain't, as you might say, a silver-tongued orationer; but everybody knows him and likes him, and they know he lives just like he preaches. I reckon you ain't forgot how often he come out to see you when you had the typhoid, and he generally helped with the feedin' and chores before he left, and he took Lizzie and Sally and James into the church and baptized 'em, and when Johnny was hurt that time the team run away, Bro. Jones

come and prayed with him till he died satisfied; and it was Bro. Jones that preached the funeral. And when Bro. Jones stands up there in the pulpit with that shine on his face and tells us how good the Lord is, and when he kneels behind the pulpit and talks to the Lord like they was face to face, and when he pleads with sinners to turn to the Lord, and find pardon and peace, why, I'd ruther see him and hear him than all the city D. D.'s you can wireless in a year!"

"Yes, but—pass me the merlasses—" comes back Henry; "yes, but—"

"Yes, but," I goes on, "that music and lecturin' and things is fine, but they ain't no substitute for church-goin', any more than lookin' at the picture of Lizzie's baby way off there in Oklyhomy is a substitute for squeezin' and kissin' and lovin' the fat little dimpled feller hisself. The Lord has got work for every one of us to do," I says, "and we can't do it settin' by the fire, listenin' to other folks' prayers and preachin' comin' through a black

(Continued on Page 6)

CROSLEY 51

Licensed under Armstrong U. S. Patent No. 1,113,149

A two-tube, long-range regenerative receiver, consisting of tuner, detector and one-stage of audio frequency amplification.

Gives loud speaker volume at all times on nearby stations. Works loud speaker on distant stations under good atmospheric conditions.

Became, in 24 days, and is, the biggest selling radio receiver in the world.

Thousands have been sold. Every owner is an enthusiastic booster. Uses dry cell or storage battery tubes and indoor or outdoor antenna.

Price, only \$18.50, puts it within reach of everyone.

Ask any radio dealer to show you the Crosley 51

THE CROSLEY RADIO CORPORATION

Powel Crosley, Jr., President
Cincinnati

18.50

Above is a reproduction of an advertisement that is ready for distribution among Crosley jobbers and dealers. Mats have been prepared and will be mailed immediately upon receipt of orders. The advertisement is two columns wide and six inches deep, with a total of 168 lines. Publication of this advertisement in your local newspaper, with your company name below it, will greatly increase the demand for the popular Model 51 receiver.

Many Realizing Value Of Tuned Radio Frequency

(Continued from Page 1)

people in various parts of the United States, is now ready for distribution. Laboratory tests are not always as practical as those given to a receiver under the different circumstances encountered in actual operation, and the reports received bore out the excellent tests of the designers. A year has been given to perfecting this receiver.

Four important principles are incorporated in the Trirdyn: tuned radio frequency amplification with the first tube; Armstrong regenerative detector action with the second tube; reflex amplification by employing the first, or radio frequency tube as an audio amplifier and one-stage of audio frequency with the third tube. These factors combined in the particular arrangement of this receiver give signal strength of a receiver utilizing five tubes.

The Trirdyn will not re-radiate when receiving broadcast stations' signals, due to the fact that the antenna is very loosely coupled to the secondary circuit and a non-oscillating radio-frequency amplifier is employed before the regenerative detector as a barrier to prevent oscillations generated by the detector upon reaching the antenna.

The primary or antenna circuit of this set is aperiodic or un-tuned, making it possible to calibrate the secondary circuit and the tuned radio-frequency amplifier in terms of wave-length, thereby enabling the receiver to be accurately adjusted to the signals of any broadcasting station from a calibration table or curve sheet. This arrangement greatly simplifies tuning, making it possible for the operator after having once located a given broadcasting station, to return again to it by adjusting the two tuning dials at the numbers previously logged. This makes it the ideal receiver.

The set is very selective because it employs tuned radio frequency, loose-coupled antenna and a tuned secondary. It is possible to receive the distant stations despite local interference. For example, in Cincinnati it is possible to tune in KDKA, which is only 17 meters higher in wave length than WILW, while the latter station is in operation.

The operation of the Trirdyn is very simple and will give excellent results with almost any type of antenna. It operates satisfactorily with a small indoor antenna, which provides loud-speaker volume, even on long distance stations, and good results have been obtained without using any antenna, using only a ground connection.

It requires a detector and two amplifier tubes of standard type and satisfactory results are obtained when dry cells are employed for lighting the filament, but the volume will be greater with 6-volt tubes. The amplifier circuit employs 90 volts of "B" battery, but will operate satisfactorily with 45 volts. A "C" battery may be employed if desired. The Trirdyn is enclosed in a beautiful solid mahogany cabinet and a cabinet to match may be used for the dry cell batteries. It sells for \$65.00.

AUNT HETTY DISCUSSES RADIO

(Continued from Page 5)

horn or a dofunny clamped to your ear."

"Would you mind," interrupts my pardner, "catchin' your breath long enough to gimme another biscuit?"

"Anyway," I explains further—jest set the plate down by you, Henry, where it will be handy—"anyway, I like to mix with the other meetin'ers (I think meetin' is a better word than church, don't you, seein' that is jest what we do? We meet with the Lord, and we meet with his people). You know the good Book tells us we mustn't fersake the assemblin' of ourselves together. Jesus himself went to meetin' regular, and if he could find help and comfort in his Father's earthly house, I'm sure we'd ought to. I like to hear Aunt Betsy Dyson talk; she's had trouble and affliction all her life, and she loves to tell how the Lord is with her, and how she aims to serve him all her days. There's Bro. John Hickey; can't read or write—don't know a grammar from a cook-book—but you forget all about his ignorance when he gets down on his knees, talkin' with the good Father like they was face to face. And there's Sister Miggs, always at meetin', rain or shine, ready to pray or speak or sing. I'd ruther hear her sing 'Jesus Is All the World to Me'—her with tears runnin' down her face and meanin' every word of it—than to hear any Chicago

(Continued on Page 8)

The Gruen Watch Company
Preferred
Common
HIGH CLASS INVESTMENTS
WESTHEIMER & CO.
Cincinnati, O.
Baltimore, Md.

English May Become Universal Language As Result Of Radio

(Continued from Page 3)

a good chance to hear some of the big American transmitters.

The very fact that they listen in "over there" is shown by the rapid spread of the popularity of our new popular songs and music abroad. The "Banana Song" has been heard many times in the air in England, and a corrupted form is known in Germany. Music, fortunately for international broadcasting, is written in a universal form, and is understood if not always appreciated, regardless of the native tongue. Speeches and addresses, however, and announcements may soon have to be made in a language understood around the world, if we are to extend the scope of broadcasting that far. Some stations, heard in foreign countries or adjacent to international borders, are already making their announcements in two languages for the benefit of their listeners.

It is only natural that for American broadcast reception American-made apparatus is sought abroad, and nearly every week requests for radio apparatus, data and catalogues are received by the Department of Commerce. Many overseas seek to become agents of American manufacturing firms and the Department is forced to keep a list of such requests for reference. Just now Italy is seeking receiving sets suitable for reception on wave lengths from 400 to 600 and 400 to 4000 meters, and ranges from 10 to 2000 miles. Calls have also been received recently from Brazil, Portugal, Sweden, New Zealand and

Australia for apparatus and batteries. Some countries are already jealous of American sets and have prohibited its importation or imposed high tariffs to protect home-made sets.

DX Fans Are Urged To Listen For Radio Messages From Mars

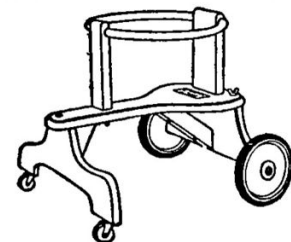
(Continued from Page 5)

attach to this communication, should it prove successful.

Should Mars, as the astronomers believe, really be inhabited, it follows that their race, being millions of years older than ours, has advanced to vastly higher degrees of intelligence and their understanding of science, therefore, surpassing ours to a great extent. They, therefore, must have solved many of the puzzling problems of science which would, when revealed to us, prove of infinite value.

On the other hand, as the late Professor Percival Lowell claimed, if Mars is arid and without rivers or lakes, physical dangers and other great problems are confronting the Martians, and they would need whatever help along physical lines the younger planet which we call Earth could give, for it is a foregone conclusion that, once communication is established, some sort of interplanetary commerce will soon follow.—(From Chicago American.)

The Go-bi-bi



No longer does Daddy carry the infant about in his arms while mother prepares supper. Little brother and sister do not have to sacrifice their play hours to take care of the baby. And Mother—look at Mother, just as carefree as the children. All because the Tiny Tot in this home is learning to walk by means of the GO-BI-BI and needs little attention from anyone. On the contrary he is keeping the rest of the family entertained.

"My wife and I are 'tickled to pieces' over the GO-BI-BI we have for our ten months' old girl. It is just like a one ring circus to watch her." (Signed) Gordon B. Small, Springfield, Mass.

Every dealer in baby things or children's vehicles should stock the GO-BI-BI, and help to make healthy babies and happy homes in his community. Nothing like it for making satisfied customers.

CROSLY MFG. COMPANY
1632 Vandalla St. Cincinnati, O.

We broadcast daily at
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FIFTH-THIRD
NATIONAL BANK
of Cincinnati.

ANOTHER NEW RECEIVER!

THE

\$65.00 -- CROSLEY TRIRDYN -- \$65.00



NOW comes another new and wonderful Crosley Radio Receiver!

It is the Crosley TRIRDYN, which, we believe, is unusually different from anything on the market. The price of the TRIRDYN is but \$65.00.

A few weeks ago the radio world was astounded when The Crosley Radio Corporation announced the Model 51, a two tube Armstrong Regenerative Receiver selling for but \$18.50. Last week the Super XJ was announced, and this week we are announcing the new TRIRDYN, a set we have been working on for more than a year but which we have been unwilling to release until we felt that it was perfect in every way.

This new receiver has the following attractive features: Tuned Radio Frequency Amplification, Regenerative Detector reflexed back on the first tube, and an additional stage of Audio Frequency Amplification. The combination of these things gives it the effect of at least five tubes, although there are but three.

The opinion of every one who heard these sets in operation is that they will perform in every way, as to volume and selectivity, with any five tube receiving set, and the quality is better.

This receiving set is non-radiating (or non-reradiating, as it is sometimes called) so that it causes no interference in a neighborhood in which it may be used. It is controlled by means of only two dials, which can be perfectly and accurately calibrated, and being only two such dials, enables ease in picking up new stations without calibration.

The TRIRDYN is equipped with two rheostats, one controlling the detector, which can be set accurately on reception of the first station. The other rheostat controls both amplification tubes, and can also be set for volume and clarity at

the same time that the detector rheostat is adjusted, after which no further change need be made in the rheostat adjustment, excepting for change in A Battery voltage.

This slide tickler regenerative control can also be set and is used only occasionally during the operating period for adjustment of volume, so that the control of this set is actually "boiled down" to two dials.

The selectivity of the TRIRDYN is almost uncanny. KDKA, only seventeen meters off our local broadcasting station, can readily be tuned-in in Cincinnati, through what would otherwise be local interference.

One of our testers, located across the street from our factory and practically under the WLW antenna, is able to tune in Ft. Worth, Omaha, and other longer wave broadcasting stations through WLW.

A selector coil is provided on the receiver to be used sometimes during local interference in connection with some types of antennae, in order to provide greater selectivity.

This is, we believe, the ideal receiver. West Coast broadcasting is, of course, copied regularly in Cincinnati on this instrument. It can be used satisfactorily with a very small indoor antenna, which provides loud speaker volume even on long distance stations. Excellent results have been obtained without any antenna, using only a ground wire connected to the antenna binding post.

The TRIRDYN, or 3R3, gets its name from the combination of radio frequency, regeneration and reflex and also the fact that the set uses only three tubes.

It is possible that a different type of cabinet will be provided later at a price of \$75.00.

We are now in quantity production on the TRIRDYN and advise distributors and dealers to send in their orders immediately.

THE CROSLEY RADIO CORPORATION

POWEL CROSLEY, JR., President

Formerly The Precision Equipment Company and Crosley Manufacturing Company

CINCINNATI, OHIO

"Radio Audience Is Appreciative But Critical," Smith Says

America Exceeds Europe In Supplying Good Music, Studio Director Tells Kiwanis Club.

Fred Smith, studio director of WLW, operated by the Crosley Radio Corporation, Cincinnati, recently entertained the members of the Lawrenceburg, Indiana, Kiwanis Club, with a talk about his work at the Cincinnati broadcasting station. After covering the problems of the broadcasting station, he said:

"The radio audience is one of the most appreciative and yet critical in the world. It knows what it likes and wants it and so it is our job to give it a little of what it needs in addition to all that it wants. Novelties are necessary to hold an audience to a station, but they must come as a surprise, for anticipation is generally better than realization. The studio director should be able to supply a program so diversified that it will please the man in the country as well as in the city.

"There is a 50 per cent demand for syncopation in orchestrations, and it shows a tendency upon the part of the listeners to have what is termed 'the syncopated soul of America.' But despite this craze for the jazz programs, the increase in appreciation of good music is encouraging. An example of the way the radio audience rose to the occasion was found in the 2000 letters which were received following the marvelous concert by Mabel Garrison. This concert was given without any previous announcement, and when the audience tuned in to the WLW station, they hear the most perfect soprano voice ever broadcast. The program lasted two hours and yet the response showed a keen interest in the better things of radio. The soprano voice is the most difficult to record for radio and I never knew there were so many thousands of sopranos who wanted to sing for the radio audience until I began to make up the radio programs.

"America furnishes the best music despite the fact that some seem to think good music must come from Europe. I was in continental Europe for eight years and I found as a rule, that the appreciation for good music was not so high as I had anticipated. The average European goes to his folk songs for his music, and the standard of appreciation is not so great as here. Many students go to Europe in the search for musical education, but here in America we find the great artists of our sister continent have come here for their money-making.

Most artists have set the Metropolitan Opera House in New York City as their goal, for it is this type of audience which makes it possible for the singers to receive thousands of dollars a week for their work, while in Europe the remuneration is not very great. In Brussels I met a conductor of music who received \$50.00 a week, while Fritz Reiner, in Cincinnati, receives \$25,000 a year as conductor, which shows there must be a greater interest in music or it would not be possible to pay the artists such salaries.

"It is but a small thing to ask the radio audience to show their appreciation by a written applause, and that is what the radio artists look for, just as in a concert where the audience is seated before them, the applause indicates an appreciation of their efforts. Thousands of letters are received weekly and it is by carefully reading these letters that a studio director is enabled to know what the public likes. The letters are passed on to the artists whose names are mentioned in them. Probably the greatest number of letters received on one evening, with the possible exception of the radio wedding, was the night Genette records were given away for every communication received. Ten thousand were distributed throughout the country.

"We are ever striving to give the public what it wants, but we have never gone to the expedient of giving bedtime stories, because there are many stations now doing that, and like the Chinese proverb, 'When the wind blows your fire, why waste your breath?'"

FORMICA

Every amateur who buys a Formica panel or tube for use in his home-made radio set knows that he is following the practice of the best radio engineers and most famous set makers. Formica is used and sold by The Crosley Radio Corporation.

The Formica Insulation Co.

Spring Grove Avenue,
Cincinnati, Ohio.

AUNT HETTY DISCUSSES RADIO

(Continued from Page 6)

choir executin' with painfulness some of them high C pieces. Our singin', now, here in Jaynesville may not be as correct as some—we ain't got the voices nor the musical learnin' for these here high-class pieces—but I will say that we 'sing with the sperrit and the understandin', and I reckon that's what you call real worship."

"Pass the merlasses," says Henry. "As for shuttin' up the meetin' house," I goes on, shovin' the sirup across and follerin' it up with the butter, "I reckon, Henry Hopewell, that us Ladies' Aiders would have something to say about that." Anybody that has fried crulls and baked pies and cakes and cookies, and made coffee enough to float a battleship and stitched their fingers sore makin' comforts and quilts and bonnets and aprons and piller-tops and everythin', payin' off the church debt, why they ain't goin' to see that work all wasted! This here radio meetin' or church is fine for anybody that can't get to the

synagogue, but as for me and my house," I says, leanin' back in my chair and lookin' stern and emphatic at Henry over the tops of my specs, "as for me and my house we will serve the Lord at the place he has appointed for us, namely the house of God."

"O well," comes back my pardner, seein' that as usual I had the best of the argument, "the winmen would nacherally hate to miss a chancet to size up each other's clothes and talk after meetin' was out. Pass the toothpicks!"

MATCHED

Rastus: What you all doin' wif dat pen and paper, Sambo?

Sambo: Ise gwine t'write mah Liza Jane.

Rastus: Go long, midnight, yo' can't write.

Sambo: That's all right, Amigator Bait; Liza Jane can't read.

The preacher led the colored sister far out into the stream, where she could be thoroughly immersed, then he cried in a loud voice: "Be stiddy, sistah, an' you'll come up whitah dan snow."

"Oh, parson!" she exclaimed, "dat's askin' too much; a cream color'll do!"

A BATTERY CHARGER YOU WILL BE PROUD TO OWN

GOLD SEAL HOMCHARGER

5

Ampere Size for all Auto and Radio Batteries



List Price

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Charges auto, radio or "B" storage batteries over night for a nickel.

Simple, dependable, almost silent and absolutely safe. Beautifully finished in mahogany and gold—may be used right in the living room.

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FREE Ask your dealer for a free copy of the HOMCHARGER international list of broadcasting stations. Contains call letters, location, name and wave-length of nearly every broadcasting station in the world.

NOT GENUINE WITHOUT THE GOLD SEAL

—The—

AUTOMATIC ELECTRICAL DEVICES COMPANY

CINCINNATI, OHIO

Largest manufacturers of vibrating rectifiers in the world

FOR SALE BY ALL GOOD RADIO DEALERS

