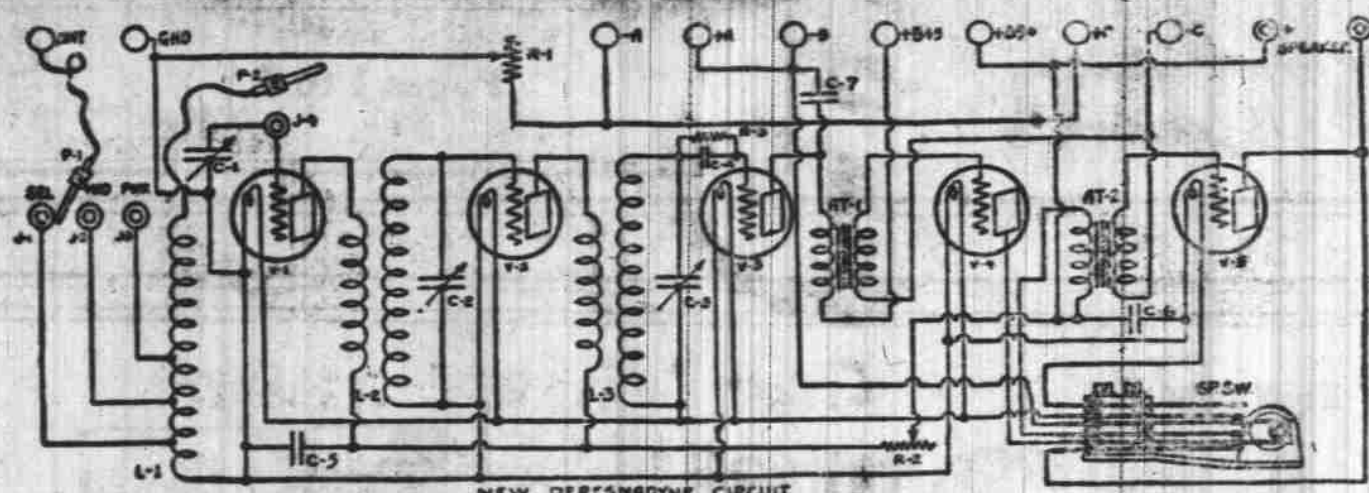


## NEW DERESNADYNE CIRCUIT DECLARED TO EMBODY HIGHEST EFFICIENCY



The Paddlewheel Inductances. The efficiency of the circuit as a whole depends to a very great extent upon the efficiency of the coupling coils used in the stages of tuned radio frequency amplification. Low loss condenser arguments are often absurd when the efficiency of inductance units are considered. Mrs. Andrews Paddle-

wheel inductance is a radically new type of real low-loss inductance unit. In measuring coil efficiency, the highest possible ratio of inductance to resistance is essential. In a coil of this type the insulating material supporting the coil winding is so placed that absorption losses are almost eliminated. The high inductance value

is proven by the fact that .00025 mfd. variable condensers are used for tuning over the entire wavelength range. Figure 2 shows the Andrews Paddlewheel Inductance as used in the Deresnadyne circuit shown in figure 1. While the fan is encouraged to build his own set if he desires, patent applications prevent the manufacture of it.

## The RADIO PHAN Talks

By R. D. BARTON  
Just supposing! If Vice-president Dawes' inside opinion of his "late lamented" senatorial inaction could be broadcast—well, perhaps it just as well after all! Helen Maria might sound tame after that.

Only 150 more applications for broadcasting licenses on file, but consider the situation when each booster club throughout the country clamors for a Class B voice.

Already B. C. L.'s are becoming hardened to conflicting claims that fill the air. Now why should San Francisco wish to call the world's attention to the fact that

she is sitting on the sea? Possibly it is "city by the sea," these fine distinctions are difficult for a calloused ear.

Pale—nds—pi—lipped. This is not a new dialect, it is merely a sectional view of a well known song as it arrived in our town last week from Hastings, Nebraska, punctured by that villain, Code.

The many friends of Vera Brady Shipman will be especially interested in her series of articles for The Country Gentleman that began in the February 28th issue. This writer of breezy, intimate radio sketches, has a faculty of bringing distant places and people vividly before our eyes. Her articles in the Radio Digest and other publications are followed with interest by thousands of readers.

Not contented with getting the east coast, Mr. George Riches has reached out with his Radiola

Super VIII and brought in the Hawaiian Islands. Mr. Riches does not use any outside aerial.

We will soon be getting baseball scores via radio.

The portable type of set for use in camp will be more popular than ever this summer. Get yours ready!

## PUZZLE CRAZE IS GAINING STRENGTH

Southern Europe Falls in Line With Rest of World; Words Fail

ROME, March 14.—The crossword puzzle craze has reached Italy in its triumphal march from the United States.

The engaging pastime which has made dictionaries best sellers, first took Great Britain by storm and then crossed into France where it overcame the prejudices of thousands of citizens of that nation which, more than any other in Europe, had been famous for its philological insularity and for its passionate insistence upon the purity of its verbal expressiveness.

Now, the fad, disguised as "L'Indovinello delle Parole Incrociate" has crossed the Alps into Italy and its proponents predict confidently that nothing can stop its advance into the heart of central Europe and even into the Balkans where languages and dialects abound.

Foreigners in Italy had for some time interested and disturbed the natives by their peculiar antics and gesticulations in front of black and white squares in foreign newspapers, but it remained for a weekly newspaper to explain the mystery and incidentally to introduce the cult.

That the "parole incrociate" is but a distant relative of our crossword puzzle is immediately apparent after a literal translation of some of the explanatory definitions. Here are several furnished with the second puzzle: In water I am strong and gay; smiles at everyone but rarely at him who touches it; it is pure; tells when death appears; an immense adjective; always sacred; beyond the octave; renowned for works of genius; found in Italian politics; perceptible; more luminous than I and more impalpable.

In this puzzle there are eight right and left words and 13 up and down. No word has less than four letters and eight have eight letters each. The newspapers announce it will publish a puzzle each week and offers \$2,000 lire in prizes for accurate solutions during the year. One large Roman daily has already announced its intention to publish the puzzles, and other newspapers are said to be preparing to follow suit.

A woman's ankle is an all-year-round target; in summer, mosquitoes; in winter, frost.

There's many a slip twixt the hip and the lip.

ENNORBLING  
G REDRESS C  
RG BOOST CO  
ARC RAT MOM  
NORA D CORP  
DOOWACKADOO  
AVON A PENS  
MEN ASP SEE  
ED ACTED TR  
S USHERED S  
ASSERTION

Here is the answer to the crossword puzzle which appeared on the Radio page of last Sunday's Statesman. This puzzle was originated by Paul Whiteman, America's jazz king.

Quick Startling  
SHELL  
GASOLINE

## BROADCASTING EXPERIMENTS WITHIN VESUVIUS CRATER PROVES NO RECEPTION IN ERUPTIVE ZONE OF VOLCANO



The above photograph made within the crater of Mt. Vesuvius, shows a radio receiving set equipped with loop aerial receiving broadcastings from a nearby station. The expedition was arranged by Professor Ricotti of Milano who sought to determine if it were possible to record reception within the crater. Members of the expedition were compelled to wear masks over their faces to protect themselves from the poisonous fumes.

station. The expedition was arranged by Professor Ricotti of Milano who sought to determine if it were possible to record reception within the crater. Members of the expedition were compelled to wear masks over their faces to protect themselves from the poisonous fumes.

## Oregon Is Average In Automobile Growth

Motor vehicle registrations in the United States reached a total of 17,591,981 at the end of 1924, according to the bureau of public roads of the United States department of agriculture. Motor ship-ton's prophecy, made in 1841, that "Carriages without horses shall go \*\*\*" has indeed been fulfilled to all the people, for at the present time there is one motor vehicle for every 6.4 persons, one passenger car for every 7.3 persons and one motor truck for every 69.0 persons.

The reports received from the 48 states show a net gain in registration of 2,501,045 for the year or 16.6 per cent. Passenger cars increased 14.7 per cent in number while motor trucks increased at more than double the rate or 32.9 per cent, indicating rapid development of commercial use of the highways. Truck registrations increased 54.4 per cent in Kansas and 42.4 per cent in North Dakota. The greatest increase in total registration is shown in the South Atlantic group of states where the increase was 21.5 per cent while the minimum is shown in the West North Central group amounting to 10 per cent.

The total gross receipts from license fees amounted to \$225,492,000. Of this amount \$184,393,000 or 82 per cent is applicable to highway work under the supervision of the state highway departments.

The registration figures by states are as follows:

State	Total Registration	Percent Increase 1924
Alabama	157,262	24.2
Arizona	57,828	17.6
Arkansas	141,983	25.3

California	1,319,394	19.9
Colorado	213,247	12.9
Connecticut	217,227	19.5
Delaware	35,136	17.2
District of Col.	88,762	18.6
Florida	195,128	28.4
Georgia	207,688	19.4
Idaho	69,227	11.0
Illinois	1,119,236	15.5
Indiana	651,705	11.7
Iowa	616,128	7.9
Kansas	410,891	9.4
Kentucky	232,804	15.8
Louisiana (a)	178,000	30.3
Maine	127,178	17.1
Maryland	198,298	17.2
Massachusetts	570,578	18.9
Michigan	867,545	18.7
Minnesota	503,437	12.3
Mississippi	124,680	29.1
Missouri	540,500	13.4
Montana	79,695	7.9
Nebraska	308,715	7.9
Nevada	18,118	15.4
New Hampshire	70,932	19.0
New Jersey	504,217	17.0
New Mexico	41,680	30.1
New York	1,412,879	17.3
North Carolina	302,232	22.5
North Dakota	117,346	7.4
Ohio	1,241,600	16.1
Oklahoma	369,903	20.5
Oregon	332,815	16.1
Pennsylvania	1,228,587	17.7
Rhode Island	95,482	25.1
South Carolina	161,753	26.9
South Dakota	142,396	8.1
Tennessee	204,680	18.1
Texas	891,712	16.5
Utah	68,316	14.8
Vermont (b)	61,179	15.9
Virginia	261,945	19.7
Washington	295,443	13.4
West Virginia	190,734	20.9
Wisconsin	525,221	14.8
Wyoming	43,639	9.6

Totals 17,591,981 16.6  
(a) Approximate.  
(b) Includes non-resident registrations.  
It is a misfortune to any man to get everything he wants.

## His Brain Rivals Encyclopaedia In Storing of Facts and Figures; Student of All Human Sciences

For facts and figures, in their relation to the progress of the human race from early times to the present, physicians and sociologists, anthropologists and others engaged in scientific research find no more trustworthy source of information than Frederick L. Hoffman, LL.D., consulting statistician of the Prudential Insurance Company of America.

For more than thirty years Dr. Hoffman has collected an immense amount of statistical and other information bearing upon every problem of human progress in all directions. He has participated in practically every health promoting effort, while always presenting new data as the result of his indefatigable research in the phenomena of human existence.

Those who know Dr. Hoffman intimately believe that there is no more convincing platform speaker, for his mind is a storehouse of classified and dated data, added to an extraordinary memory and a practical viewpoint, rendering assistance in the furtherance of efforts to promote human life.

Reporters seeking information for stories, possibly on the proportions of the human body or the difference in cranial capacity, turn to him with as much assurance as the anthropologist who wants new information based on critical observations and actual research. His anthropometric investigations cover northern Central and South American Indians, Negroes, Orientals and Caucasians. He knows as well the conditions of life on our Indian reservations as in the jungles of Central America, Peru and Bolivia.

Sociologists and criminologists in need of the latest data concerning the number of homicides and suicides and fatal accidents in any city, state or country appeal to him for the results of his most recent tabulations, obtained through the co-operation of health agencies and other sources everywhere. Medical men concerned with the intrinsic intimacies of the causes or trend of disease, know that there is no one more thoroughly informed than Dr. Hoffman, particularly concerning cancer, tuberculosis, leprosy, diabetes and many other of the numerous afflictions which curtail the longevity of the human race.

If people uneasy about suggestive symptoms of disease would seek early treatment, particularly



DR. FREDERICK L. HOFFMAN

In the case of cancer," he said recently, "possibly one half the 100,000 who now die each year could probably have their lives considerably prolonged."

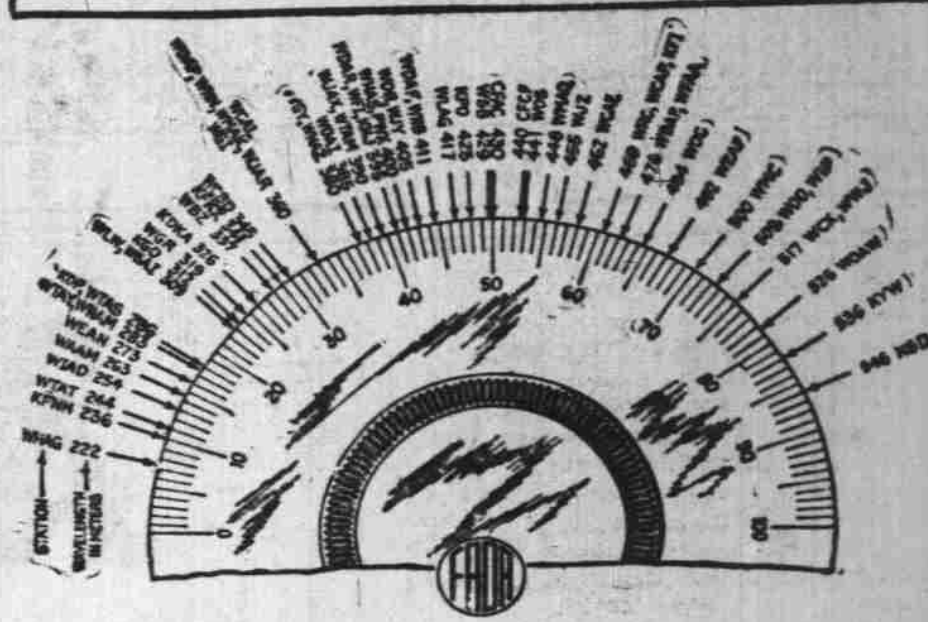
To escape this scourge of cancer we are advised to adopt "moderation in eating, smoking and drinking, sufficient rest and recreation, loose clothing and absence of worry."

In one of his more recent platform addresses, Dr. Hoffman paid a high tribute to the fine character of the American Indian, while having a good word to say regarding native Indian dances, and he even said that the Indian Medicine Man is a personage of considerable tribal influence which should be turned to advantage. He is strongly opposed to the intolerant attempts to forbid Indian tribal dances, while he is of the opinion that the liquor question no longer presents a very serious problem among our Indian wards.

Explaining his facility as a platform speaker and a producer of numerous pamphlets and monographs on various subjects, Dr. Hoffman once said: "It is all due to a thoroughly organized mind, coordinated to a large and well equipped library aided by a trained memory, based on actual experience rather than a museum of dead books and dead theories."

## Everyday Radio

BY KIMBALL HOUTON STARR



## THE GENTLE ART OF TUNING

The actual proceeding to be followed in tuning a Neutrodyne receiver after the antenna ground, and all battery connections have been properly made, is as follows:

1. Insert five "hard" amplifier tubes (type UV-201-A's or C-301-A's), or, in cases where dry-cell tubes are used, type UV-199 or C-299, in the five-tube sockets. Turn the two rheostats halfway up to the right and then turn the amplifier control switch from the "off" position to the "medium" position.

2. Let us assume it is desired to receive station WEAF, New York, N. Y., which transmits on a wavelength of 492 meters. On examining the dial calibrated in station call letters as shown in the drawing above, it is seen that this station corresponds to a dial setting of 67 degrees. Accordingly, set dials 2 and 3 of your Neutrodyne receiver at this setting and rotate dial 1 very slowly from zero to 100. Signals will be heard with dial 1 at a setting identical with dials 2 and 3 or at a few degrees lower. Under this condition, rotate dials 2 and 3 independently very slowly until the maximum signal is obtained. In any particular Neutrodyne receiver, dials 2 and 3 may read identical, but in no case should they differ by more than 1 or 2 degrees. The first or left-hand dial may read identical with or lower than dial 2. A record should now be made of the settings of this station on the log charts as follows: WEAF: 492 meters 63 66 67.

After adjusting the dials for maximum signal strength, each of the two rheostats may be turned backward and forward until the maximum signal with clarity is heard. In general it may be said that a lower filament current is required for local or strong stations and a high filament current and very careful adjusting for the more distant ones. In all cases when tuning a Neutrodyne receiver, it is best to keep dials 2 and 3 always within one or two degrees of each other and they must be moved slowly, at a rate of about 2 or 3 degrees a second. Very often, a weak signal is passed over by moving the dials fast. One can tell if the receiver is "tuned-in" when the broadcasting station cannot be heard, by listening to the intensity of the noises that are present.

predictions made when plan was inaugurated, that it would exert a wide influence toward lessening extravagant buying with its consequent embarrassments, and

instead afford a practical means for car ownership in which all members of the family can participate.

## MEN — WOMEN — CHILDREN

## KEEP A-GOING! By Riding a Bicycle

Bicycle Riding Gives Health and Pleasure to the Rider

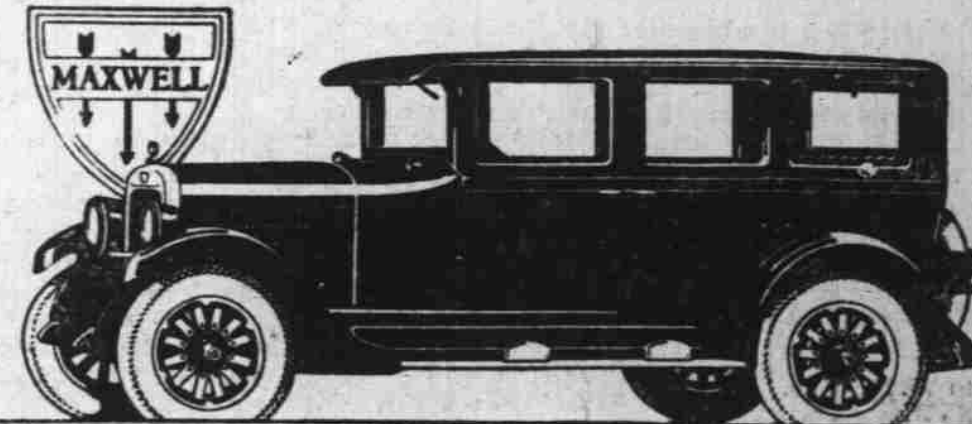
Wagons — Scooters — Velocipedes for the Children

Repairing — Accessories

LLOYD E. RAMSDEN

387 COURT STREET PHONE 1687

## Popularity Like this Means Appreciation of Greater Values



The new good Maxwell has won such hearty approval here and everywhere, its popularity is a matter of comment. There can be no question that the car offers advantages never before found in a four.

There are logical reasons for this advance over conventional results. First, the determination of Maxwell-Chrysler engineers to develop the four-cylinder principle to its fullest extent.

Next, the marked and recognized advantage in experience and resources of one of the largest and strongest quality manufacturing organizations in the industry.

Touring Car . . . \$ 895  
Club Coupe . . . 995  
Club Sedan . . . 1045

We are pleased to extend the convenience of time-payments. Ask about Maxwell's attractive plan. Maxwell dealers and superior Maxwell service everywhere.

Furthermore, the new good Maxwell is truly a "manufactured" car. The entire car, almost to the smallest detail, is built in the great Maxwell plants.

Naturally, with all these advantages the new good Maxwell offers higher quality and finer motoring at a surprisingly low cost.

The car's popularity means that the public has discovered this fact. To put the matter briefly, you have only to observe the growing number of new good Maxwells on the road to understand the wide-spread appreciation of Maxwell's higher quality and greater values. We are eager to prove it in a demonstration.

Standard Four-Door Sedan \$1095  
Special Four-Door Sedan 1245  
All prices f.o.b. Detroit, tax extra.

OSCAR B. GINGRICH TIRE & MOTOR CO.

Salem, Oregon

The New Good  
MAXWELL

## To Celebrate Success By Children's Party



## Paul Whiteman Will Entertain All New York's Younger Set

New York City.—Paul Whiteman, best known orchestra leader in the world, will celebrate the success of the transcontinental concert tour he is making this year with a party for all the children of New York City.

Paul Jr., the genial conductor hopes to make the children's party an annual feature, and this year, Paul Whiteman, Jr., ten months old, will assist his daddy in handing out candy to the young guests. Music especially suited to the childish listeners will be played by Mr. Whiteman's own orchestra, and the leader himself, in a fancy dress costume, will conduct "Doo Wacka Doo," the children's favorite popular number, over and over, undoubtedly to the accom-

paniment of outbursts of applause, for the youngsters of New York love the jovial conductor.

## Concert Success

Mr. Whiteman's remarkable success in the concert field recalls the fact that he has been first in all recent American musical enterprises. He was first to arrange modern or jazz music for an orchestra. He was first to visit Europe, where he played a command performance for the king and queen of Great Britain, and was first to give a concert of modern American music in this country.

Others are now following in his footsteps and native composers are enjoying a prestige they have never had before. Mr. Whiteman played at the Metropolitan Opera Christmas week before what was probably the season's most fashionable audience. His tour is now taking him to the South and West. In April he will sail for Europe.