

ARE THESE STATEMENTS MISLEADING?

In the picture at the head of the column we have shown some imaginary elippings from radio the quality of a variable condensnot represent the majority of rad- 1000 cycles. A test made at 1000 lo advert'sements, they are a good cycles tells us little or nothing deaf along the lines of advertise- about the condenser. What we are ments of a certain type that man-interested in is waves around age to creep into the radio col- 500,000 and 600,000 cycles. Two

mation, actually does not do so. for short-wave work. Let us take them up one by one.

First is the receiver with the guaranteed range of 5000 milesunder tion. Since this really needs more all conditions. There have been than a paragraph to discuss propsuch advertisements. Now it is erly we are making it the subject one thing to guarantee that a cer- of an article to be run in this coltain range is possible—it may very mun later. well be-but it is another thing to guarantee that range under all conditions. It simply is not possible. There are times in certain localities where the most sensitive receiver available could not reach miles away. So much for that.

Now for the "no interference" receives. This is a pretty strong transformers which, although claim, and we personally would more convenient, give less ampli- tests a neutrodyne transformer in the mountainous district of readers the world over were rehate to have to make good on it. fication. Put a receiver within half a mile of a good big commercial spark operating on 450 or 600 meters caster 100 miles away and 40, or

in dangerous to claim that they will cut out all interference.

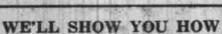
A very common fault lately is exemplified in our third example, in which the advertiser describes advertisements. While they do er by showing its resistance at condensers which measure nearly the four "advertisements" alike at 1000 cycles may be very shown .two are simply "not so"; widely different at ratio frequenone is open to question, and the cies, which is where they are going fourth gives information which, to be used. Particularly is this while it appears to convey infor- true when the condensers are used

The last "ad" concerns amplifiers in which ther is no distor-

HOW MANY TURNS IN THE PRIMARY OF THE R. F. TRANSFORMER

The tuned transformer in radioout 500 miles, let alone 1000 or frequency amplification is here to ary. 5000. During the bad static sea- stay. First attaining popularity son down near the gulf there are in the netutrodyne circuit, the times during the day when no su-scheme has spread to many other perheterodyne on earth could types of radio-frequency amplifipierce the din of static and bring ers, where its greater amplificain a broadcasting station even 150 tion due to critical tuning as are quite well known, but we will caused it to become decidedly not bother the reader with the themore popular than the fixed ory behind the statement. Suf-

Lately there has been developed a non-oscillating radio-freand then try to receive a broad- quency amplifier which does not use any stabilizing or compensateven 100 meters off the wave of ing devices. This amplifier uses the commercial transmitter. Per- a special transformer in which a haps a very good superheterodyne very small primary is used-usumight possibly give fair reception. ally about six turns. Even neu-But pick a broadcasting station trodyne transformers are designed only 10 meters away from the somewhat along these lines, as the commercial and we doubt if there primary turns of the average is a single receiver now offered to ntutroformer rarely run above 15 the public that would be able to in number, and are more often 10 receive the phone without a tre- or 12. With such transformers mendous amount of interference it has often been found possible from the spark. Receivers can be to leave out the neutrodon capacmade to tune very sharply, but it ity entirely, and still not have os-



if you don't know already. There's a barrel of fun in making your own radio tube set at home. We'll furnish all materials, full instructions, etc. We have complete sets ready to use, but you'll get more pleasure building your own and it will

CHURCHILLS RADIO SHOP

1120 N. Fifth St. Phone 1474-J

25 Miles tothe Gallon

I 58 Miles per Hour I

5125 Miles in 8 Seconds

advantages.

Balloon tires, natural wood wheels, stop-light, transmission lock, Duco finish standard on all Maxwell models. Shrouded visor, integral with roof, and heater are standard on all closed models.

All prices f. a. b. Detroit, tax extra

Touring Car, upholstered in genuine Spanish leather -

Sedan, upholstered in genuine mohair plush

Club Coupe, upholstered in genuine Spanish leather .

Club Sedan, upholstered in beautifully patterned fine cloth

and natural economies, the four-

cylinder principle possessed

possibilities of power and speed

capable of being translated into ease and steadiness which have never been fully developed.

They set out to overcome what

have all too readily been accepted

in the past as limitations in the

four-cylinder engine and to con-

vert these limitations into positive

No one can doubt that success has

crowned their efforts, after even so

shortan experience as a half hour's

driving demonstration of the car.

Judged by the unusual and

extraordinary character of its per-formance, this Maxwell is literally

a new and immeasurably better

type of four-cylinder motor car.

Maxwell Motor Sales Corporation, Det

Maxwell-Chrysler Motor Co. of Canada, Led.

Walter P. Chrysler Announces-

With a full sense of the serious-

ness of the statement-carefully

weighing the meaning of every

word-Chrysler-Maxwell engi-

neers, without reservation, promise you, in this new Maxwell,

performance surpassing in every essential any four-cylinder car in

To make that sweeping assurance more definite and specific — we

promise you in speed, in power, in pliability of power, in swift re-

sponse, and even more particu-larly in riding steadiness and

comfort, results no four-cylinder

car has yet been able to attain.

To go still further into details, the new Maxwell has speed capacities far beyond any car of its type and

class, and in the rare instances in

which they may have to be used,

will register them with an absence

of vibration without precedent in

Chrysler-Maxwell engineers have

been actuated by the conviction

that in addition to its inherent

four-cylinder construction.

the world today.



Listening to the Radio in window of Salem Electric Company

loose coupling—and hence small transfer of energy—between the cillation. This is because of the primary and secondary circuits, caused by making the primary small with respect to the second-

Recent experiments are against using the small primary however. types of transformer. The reasons for using a larger primary fice it to say that in laboratory

tomary 12-turn primary. In Fig. 2 is shown how a neu-schools. trodyne transformer should be This secondary is tapped in the boring mountains. usual way for the neutrodyne con-

Living Viper Is Taken

(AP)-When the stomach of a the students here average \$146 young nurse who had died in ter- annual expenditure. Most of rible agony was opened a living them do not have that much monviper was found. The patient had ey so they receive faculty foans dustry. been put on a strict diet and the of \$30 each, then work out the venomous snake, driven by hun-remainder of their expenses. ger, had eaten the intestines of The dedication of the new home the young woman.

a small living reptile.

either in neutrodyne or in other Kentucky Institutions Train Students for Work in Hill Districts

FRANKFORT, Ky., Nov. 15 .wound with a 30-turn primary Kentucky are two schools, Berea cently to be seen. concentrated at one end of the college, the largest and most widesecondary winding gave nearly ly known mountain school of the twice the amplification of the south, and Witherspoon college same transformer using the cus- another large institution but the

built to incorporate these recent their way, training to teach, in with former years in the opinion developments. The primary "P" the professions of law, farming of W. L. Velie, president of the is composed of about 30 turns of and business. Their expenses are Velie Motors Corporation, Moline, No. 26 or 28 d.s.c. wire wound in negligible but their means are a narrow slot in a wooden disk. limited, President William J. This disk is fitted into one end of Hutchins points out. The enrollthe cardboard tube on which the ment runs as high as 2,738 stusecondary winding "S" is put on. dents, who come from the neigh-

The system is one of self-support. The faculty has arranged that the students may work half

The dedication of the new home economics building brought out Only one explanation seems the largest body of mountain men likely, namely, that the girl, while and women ever assembled. It on a like in the Swiss mountains, was considered a demonstrative drank from a mountain brook and response to the campaign agains swallowed either a serpent egg or illiteracy, one of the features o which was the inauguration of

> Governor Fields recently dedicated the latest addition to Witherspoon college, a gymnasium of rough hewn timber, to reach which he and his party made much

fluence with the Kentucky river. fayette Avenue Presbyterian the cruiser Raleigh, which lay off church, Brooklyn. Although one the fjord to "mother" the flight. of the largest schools in the in the state.

S. Murdoch, president, came from Norse vikings who, more than Brooklyn to found a college in 1000 years ago swept these norththe mountains. Next year, with ern seas, are handed down from completion of the buliding of high generation to generation in the and grade schools, his original language in which they were origpurpose will have been achieved.

Around Capital of Former Great Power

changes have come about in Berlin landers live in turf huts, as did with the opening of the new theat- their ancestors, and Hornafjord rical and musical season, the busi- has modern homes of galvanized ness revival effected by the stabil- iron and cement, but the family ized rentenmark, and the adop- gathering is as important today tion of the agreement worked out as it was 1000 years ago. The at the London conference for the women dress in their quaint

execution of the Dawes plan. there are theater and opera open- wear the little black national cap ings almost nightly; various Ger- or bonnet, a heritage of the early man commercial organizations are Norse settlers. In the long winter holding conventions and confer- nights there is little to day and ences; directors of various ship- the evenings are devoted to the ping companies are preparing for arts, literature, music, painting the extension of their activities and drawing. Many of the villagand hotelmen have been encour- ers are graduates of the National aged to greater activity. Hotel University at Reyjavik, and others lobbies are more brightly lighted have been educated at Copenhagen and private dining rooms are or other continental capitols. again entertaining many parties. Berlin hotel keepers are especially | Children m'ss some wonderful tax of 15 per cent which the city father gets home,

has imposed on all foreigners occupying rooms in Berlin.

Berlin's leading hotels are tak aspect, and celebrities from all made: parts of the world are again appearing here as in pre-war days. In the lobby of a single hotel Mrs. Katherine Tingley, Ganna Walska Ossip Gabrilowitsch, Isadora Duncan, Mr. and Mrs. Rufus Dawes. hard Hauptmann, Max Reinhardt, Mascagni, Maria Gay, Julia Culp, Fritzi Massary and a score of other persons known to newspaper

BETTER AUTO BUSINESS

The re-election of President least known among 200 mountain Coolidge has insured the automobile industry of a most prosperous The students at Berea work winter business, in direct contrast Illinois.

Mr. Velie, in a statement made public today, believes that taxes on cars will be lowered, employ-

year due to the uncertainty of in-

'moonlight schools' for illiterate Around the World Fliers Greeted With Verse Upon Their Arrival

of the journey on mules. The Nov. - (AP)-When an Iceland- Thursday and Monday the heavy school is located in a pocket be- ic poet wrote a song to the tune days. ween high mountains. The gym- of "Yankee Doodle," celebrating nasium was built entirely by the the arrival here of the American and early evening hours are pericommunity, situated on Squabble globe-encircling airmen on their creek, a half mile from its con- long journey across the Atlantic, the day with the heaviest tool ocit was rather a special occasion curring between four and five A non-sectarian institution, an for the Americans, and the Ameri- o'clock. orphanage and two branch schools, can translation was adopted and it is supported chiefly by the La- sung by some of the sailors from

But it was nothing new for mountains it is little known with- Hornafjord, where even children chant songs of their own composiinally sung, faithful to the old texts. For Iceland has a remarkably rich literature of its own, both written and oral, and poetry is especially adapted to the Icelandic tongue.

In Hofn Hornafjord, isolated from the rest of Iceland by impassable mountains and seas that are often too stormy to allow the passage of the small [Icelandic passenger vessels, many of the old Many Changes are Noted viking customs are still observed. These include the gathering of the family each evening during the long, almost sunless winter, when sagas are chanted and the heroic deeds of the old Norsemen re-BERLIN, Nov. 15 .- Amazing counted. No longer do the Icegowns of black silk, often em-High-priced hotels are crowded; broidered in silver and gold, and

jubilant over the dropping of the fairy tales by going to sleep before

Oil and Gas Record on Chevrolet 100 Hour Tests Will Be Announced

It is expected that within 10 days the Chevrolet Motor company will have complete records of the Envoy Urges American oil and gasoline consumption of every Chevrolet car that entered, the 100-hour endurance and economy run conducted by nearly a

story of gasoline mileage and oil consumption. The result will present a truthful, cross-section picture of the average mileage and off consumption that may be expected from a Chevrolet any place n the country.

Why the records may be taken by the ordinary motor car owner representative of American busi- market for Swedish lumber if o as evidence of what he may expect in every-day Chevrolet driving is due to the following condiing on an especially international tions under which the runs were

Regular stock cars were used. Each car was driven, in relay, by six to eight persons, many of those driving being persons out- enhagen the more desirable. side the particular organization. Thus, it was not a case of skilled H. M. Robinson, Leo Slezak, Ger- drivers who know all the tricks of getting high gasoline mileage. Bad roads as well as good roads

were chosen and every car was driven through city traffic, which cuts down high gasoline mileage. Reports from dealers show that every variety of speed was used at different times, regardless of the most economical speed for low

gasoline mileage. A large percentage of the runs were non-stop performances, the motor being kept running while drivers were being changed or oil or gasoline being taken on.

As might be expected in a nation - wide demonstration, there were handicaps of rain, fog, city traffic, railroad crossings, loose gravel and rough dirt roads.

Many of the cars made intensment conditions strengthened, ive runs, going through every city wages will be higher and living and town in a given country and conditions bettered by cutting over practically all roads. One dealer used 14 different drivers, All these things, he says, will four women and ten men and car-President Hutchins' son's educamore money to spend for the com- Another dealer had the driving From Stomach of Nurse tion costs more than \$1,000 a fort of his family and he will thus done entirely by persons outside fort of his family and he will thus his organization. Many of the beat to provide many luxuries had their speedometers. that have been denied him this dealers had their speedometers sealed by local officials. And nearly all the dealers exhibited their cars after the run in their showroom when prizes were awarded in the guessing contests as to the mileage made by the various cars during the 100-hour

SUNDAY THE MOST DANGER-

A large number of the report blanks received by the National Automobile Chamber of Commerce specify the day of the week when accidents occur. Analysis of 957 giving these particulars shows that the greatest hazards, HOFN HORNAFJORD, Iceland, namely 213, fall on Sunday with

> As noted above the afternoon ods of the greatest hazard during

Eight-Hour Day Is Not Observed Thru Germany

HANOVER, Nov. - (AP)-The eight-hour day, while theoretically Twenty-one years ago Harvey tion, and the sagas of the old guaranteed by the new German constitution, is by no means gen-

workers, according to an investi- tailed plan for such a bu gation just conducted by the Fac- and that the plan will shortly. tory Workers' union. Of the 481 put before the American c

mploying 481,449 persons, The results show that only 54 per cent of the employees in the concerns investigated work up to 48 hours per week, while 3.6 per cent work from 48 to 51 hours, 26 per cent from 51 to 54 hours, and 15.9 per cent over 54 hours per week.

Building in Denmark

COPENHAGEN, Nov. - (AP) thousand dealers through the House" in Copenhagen, where country during October 4 to 11. American business interests might From these records, the aver- be grouped together in one buildage gasoline mileage per gallon ing, similar to the Busch Building and the number of miles per quart in London, was advocated by the of oil will be computed, which American ambassador, Dr. John will tell a most comprehensive D. Prince, in a recent address be- Dannfelt, that a lumber s fore the American Club here.

Dr. Prince said that both he and cially in the eastern states. the extent of moving the consular make imports from over-seas offices to such a building, truly vantageous. Consequently a its excellent Free Port and com-manding geographical position as cially undressed materials, in an emporium for American trade lath and planks, have be on the Baltic, facts he said, that sorbed easily by the Ar

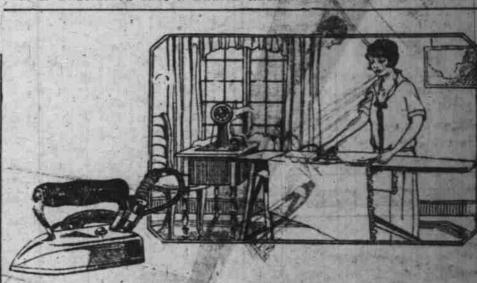
It is understood that a Danish line.

erally observed among factory architest has worked out a de locals of the union, 320 turned in Copenhagen by a Danish bus in reports covering 4360 concerns ness man with large American toterests.

> Sweden Ready to Suppl United States With Lumbe

STOCKHOLM, Nov. - (AP) .-A new and important item may soon be added to the export trade from Sweden to America, according to statements in the press by a Swedish lumber expert, the government forester, M. Juhlin Dannfelt, who has returned here after an extended tour of the Unite States as an exchange scholar der the auspices of the American

Scandinavian foundation. The demands on the for sources of America have a become so great, says Mr. is being increasingly fel Consul-General Marion Letcher sides, the long hauls from the favored the idea, and that the region of standing timber involve latter was ready to support it to sufficiently heavy freight rates to made an American House in Cop- market, and Swedish mills now look for a big trade along this



Do you enjoy the convenience of pressing in the same room that you sew?

It's such a nuisance to sew at home when you have to run ont into another room every time you want to press a bit of work. Here's a simple way to save yourself steps and increase efficiency!

During November we offer American Beauty Electric Irons Regularly priced \$7.50 Stanwell Ironing Boards

Regularly priced \$3.50

This combination offer is made to acquaint you with these excellent household necessities. The American Beauty is a standard electric iron-thoroughly guaranteed-even to its cord.

The Stanwell Ironing Board is made entirely of wood-with no metal parts or wire adjustments to get out of alignment and wobble. This excellent ironing board—when bought now—costs you only \$1.35 more than the iron alone.

ONLY \$1.85 DOWN-the balance on convenient frms.

Portland Electric Power Co.

Phone 85.



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