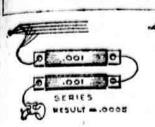
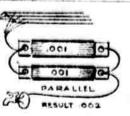
RADIO IN THE HOME By HENRY M. NEELY







If you don't happen to have condensers of the exact capacity called for in a certain book-up, two or three of those you have can be arranged together to give you the desired capacity. This picture shows how it

Some Ways of Using Condensers

When we store up water in tanks, we measure it in gallons and quarts and pints and gills. We are so neclistomed

pacity of a tank. We also speak of the capacity of a condenser, which is the storage tank of the radio set. But we do not measure this capacity in gallous. We measure it in units that scientists call farads. You need not bother to know just how much of what a facad is. Mighty few of us could really give pacity of a condenser- of its ability to ends electric currents rushing through

But the farnd is too big a measure to use with the small condensers employed in radio apparatus. We use a subdivision of the farad called the micro-farad, which thousandth of a farad. which means one one-

Your 43 plate variable condenser stores up, at its greatest capacity, only one one-thousandth of a micro-farad. In other words, its capacity is one one thousandth of one one-thousandth of a

The word micro-fornd is usually abbreviated mfd. And, when you write down the enpacity of your 13 plate condenser, you write it .001 mfd, which is speken of nmong "hard boiled hams" as "double-oh one." Your "3 plate conlenser has only half that capacity so e write it .0005 and call it, in talking About it, "triple-oh five." In the illustration, there are shown

some ways of "hooking up" two con-densers to get different capacities. In some diagrams printed in the radio magazines, you will see that you are use a .0005 condenser. Perhaps you have none of this capacity but have of those near little thirty-five-cent 001 condensers known as "phone conlensers. If you book them up in what we call "series," you will make the total capacity of the two just half what one is. In other words, your tw

as shown in the illustralike driving two horses tandem one shead of the other. If you folan imaginary radio impulse from the aerial down in the illustration, you will see that it must first pass through one condenser and then through the to reach the ground, as repre-

Now suppose your diagram called or a condenser of .002 micro-farads. You would take your two .001's and join them as shown in the second part radio energy come lown from the nertal, goes into both ondensers at once and comes out of the other end of both at once and so o the spigot. Hooking up condensers in parallel adds the two capacities.

You might think from this that two

condensers in series would just make the capacity half, but this is so only when they are of the same enpacity individually. A series of condensers has a total apacity that is not very hard to figure. ut it involves a mathematical formula

hat we won't go into in these articles. The third illustration is just a sug-gestion for the man who has a .001 variable condenser—the 43 plate kind and finds he has a diagram which calls for a 23 plate one. He can simply take one of his fixed condensers and put it n series with his 43 plate and the is a very fair imitation of a 23 late condenser, or .0005 variable And, if you have a 23 plate and need a 45 plate, hook up your 23 plate with a .0005 grid condenser, according to the middle diagram, and you

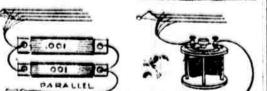


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You have learned that a condenser have a fair substitute for a 43 plate a tank in which we store up en- variable. ergy to make electric currents in our padio set. Now it is wise to consider, for a few moments, some of the ways in which we can use condensers to get them also satisfactorills veriable.

Variable, It's a wise thing to have several .001 phone condensers because you can make almost any combination out of them that you want to. And hooking up your 43 or 23 plate variable with them make them also satisfactorills variable. them also satisfactorily variable. tappright, 1922, by Public Leager Compan

Found Dead in Bathroom

pints and gills. We are so accustomed to speaking of those measurements that it never occurs to us that there is anything difficult in the names.

We say that 50% gallons is the castister investigated several hours later

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you will get a tube of the original French Baume Bengue (Analgeique), then apply as follows: rub the Baume on the chest and cover with warm flannel cloths - repeat as often as may be necessary. Keep a tube handy for Sore Throat. THOS, LEEMING & CO., NEW YORK





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Cut out the picture of the style you desire—mail this promptly with money order for same. Give the size and color you prefer.

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House Dresses-all fresh and new-heaped high on tables with as many as they can hold-can you picture the crowds of enthusiastic women buying them at the lowest price in years. Thousands more in the stock-

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Be assured you will find many among this great lot that will appeal to you! They come in checks, stripes, small patterns and plain effects in an endless variety of pleasing color effects.

Four Important Facts About This Wonderful Sale!

1-60,000 Housedress Aprons are included—the opportunity for selection is unlimited—there are a great many styles in hundreds of patterns. 2-Every garment is made of a genuinely good quality percale.



TOMORROW-THURSDAY