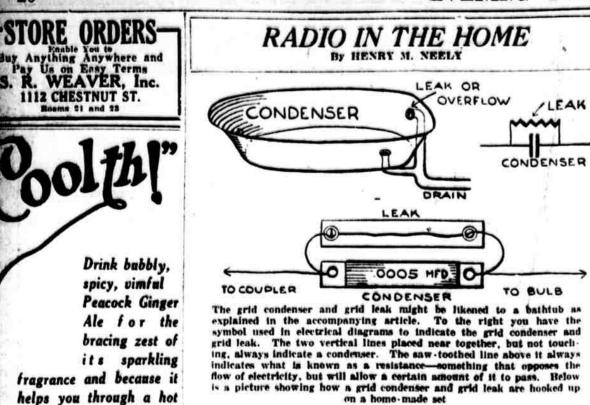
### EVENING PUBLIC LEDGER-PHILADELPHIA, FRIDAY, JUNE 9, 1922

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roaches, bed bugs, moths, fless and mosquitoes prevented by spraying with "PREVENTOL".



#### The Grid Condenser and Grid Leak

For a man who started out with the on a 200-meter wave length, these al-promise not to be too technical, it strikes ternations take place about three million me that I am getting you into rather deep water with this series of talks on the audion bulb and how it works. But there is one consolation about it ; you will be about a million and a half times

there is one consolation about it ; you can operate your set without knowing these things and so you can skip this particular part if you want to. But if you do you will miss half the enjoyment of radio. The more you understand of what goes on inside your set the more fully you will get the ro-mantic appeal of the marvels of this new science, and, incidentally you will get a better idea of just what to do when you hear funny sounds in your phone which would completely puzzle a man who didn't know what caused them. Most beginners seem to be very much puzzled by the term "grid leak." Well, a grid leak is an extremely simple thing. Make a pencil mark abut an inch and a half long upon a piece of cardboard and you will have a grid leak. In our talk on condensers we learned

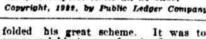
In our talk on condensers we learned In our talk on condensers we learned that a condenser is a little apparatus which has the ability to store up elec-trical energy and discharge it all at once. You have seen in all the radio shops neat little pieces of apparatus marked "grid condenser" and you may have wondered why such a cheap little thing, costing only 35 cents if you buy it, or requiring only the tinfoil and piece of wax paper from a package of cigarettes if you make it, should be so important.

mportant

Cheap as it is, simple as it is to make, you could not hear the signals through an audion bulb without it. You already know that the signals received in your aerial come in the form of alternating current-that is, electricity caused by them in your receiving set is first positive, then negative, then positive and again negative, and so on. But these alterations come with such inconceivable rapidity that the human ear would not be capable of hearng them even if the diaphragm of the telephone could vibrate so fast-which it cannot. When an amateur is sending

tery current operates the telephone dia-phragm at that speed, which is just

what we want. You might compare the grid condense: and grid leak to an ordinary bathtub. You turn the water on and it flows until it reaches the drain and when it gets at that height it flows out. In this same way the electrical energy piles up in the condenser until it reaches a certhe lead in the pencil mark, only, in-stead of flowing slowly as the bathtub does, it empties itself all at once.



folded his great scheme. It was to compound his income for the five years he might still reasonably expect to live and give all but the barest pittance to "the noblest of philanthropies---that which teaches humanity to live its heat" best." Such arrangements took time, said

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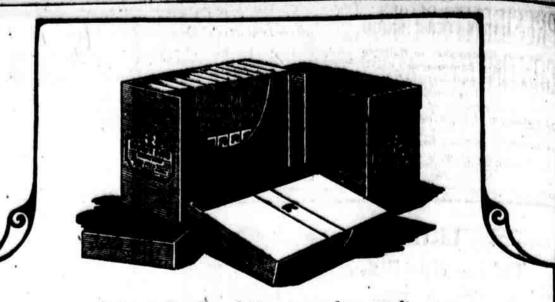
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Miss Dean, who had just asked, "How rich is old Capt. Johnson?" hissed out a long "O-h-h!" followed by

The Daily Novelette

Wanted-A Man

By MARTHA McCULLOCH-WIL-LJAMS

'I don't know. If I did I wouldn't

hissed out a long "O-h-h!" followed by a frosty smile and "Pardon, I didn't dream you were interested there." "I am not-the way you are." Sarah said, coloring hotly. "I do like the old gentleman; he's nice even when he's tiresome. If he were not I should make the brought a wife, whom he called saucily Sally of the Valley. Straight to Captain Johnson he took her, burst-ing in upon the convalescent with, "Capin, here's the answer: She'll teach humanity to like its heat the thresome. If he were not I should make him welcome for my mother's sake. He knew her as a girl, and tells me so much about her nobody else can tell." "I see; an hereditary romance," Miss Dean commented, smiling from the teath out only about a further that the pious Philistines." teeth out, only she was furious. Sarah, tall and twenty, vigorous, muscular, with clear, deep-seeing over muscular, Now she can't marry me without the consent of my mother.

tall and twenty, vigorous, muscular, with clear, deep-seeing eyes and un-afraid even of Mrs. Grundy, was likely to prove a lion in her path. Or rather the path of the beautiful scheme she had mapped out before coming to Windmead. Its cornerstone was gossip vaguely heard of a man there, old, lone, fabulously rich and so accessible, all that saved him from coming to want was the fact that he could not spend aught but the income from his big estate. I Sarah owned Windmead, but gave herself no airs of proprietorship. "What a shame I have no grandson or else could cut out fifty years or so." the captain said to Sarah stghing.

the captain said to Sarah sighing. 'I'll never insult you by saying. Will you be an old man's darling.' You are not for sale. Fity your mother couldn't overlook the thirty years' difference. You might be my daughter, but I didn't try to change her mind; she loved an-other man, and I knew it.

"I'll adopt you illegally as my grand-pap." Sarah had answered, masking -----a sigh with a laugh. Memory of all this made her flush a lovely scarlet at the Dean insinuation. She hated her-self for blushing until she caught an exultant gleam in the Dean eyes. Then tricksy Fate took to raw double-dealing all round. She laid the All Manufacturer's Ink. 90c captain by the heels with lumbago and sent Sarah to serve as maid of gt. Frankford No. 1 Note

honor at a wedding a hundred miles Sarah meant faithfully to write every day at least to her old dear. She hated

writing, but did really keep faith the first day. After that she was so held and hindered anything but postals was impossible. Long-distance was small help. Captain could not get to the phone; besides, getting connection was a work of so much time and pother it seemed not worth while. Thus Fate unfairly cleared the way for Miss Dean, a gifted letter writer as ever put words on paper. She went daily with Molly

awav.

on paper. She went daily with Molly to ask after the captain, but could by no means be persuaded to set foot in his house. Instead she sent in letters —her very best brand. Fairly written, full of sympathy, but not maudin, touched lightly with humor and breathing throughout subtly her de-sire to help in making the world and the race better. This not at first—not until the captain, who found diversion in answering courteously her sendings, himself invited light upon her plan. After that the deluge. She was far to adroit for outright solicitation, but her suggestions were double shotted and went home straight. The captain -Filing Devices-Loose-Leaf Ledgers

came a bright young fellow, Truman by name and nature. By the time he had read the third Dean letter he sensed what impended, and went over

sensed what impended, and to the opposition. The opposition was, be it known. Sarah Linton. Truman meant to marry her as soon as he got a firm foothold. Windmead he knew must be left out of the calculation. Brother Jim would never make a living sewhere and never make a living sewhere and

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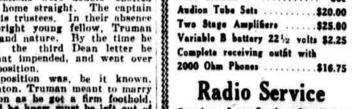
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