TOOKOS STUDY SPORTS

THE JUNIOR BRITISH WHIG

BIGGEST LITTLE PAPER IN THE WORLD

HUMOR PLAY WORK

ONE REEL YARNS

WHY THEY LAUGHED "Do you like amateur theatricals, Dorothy?" asked Blanche Stewart one afternoon as she and Dorothy Hanneman were returning home from school. Their teacher had announced that day that the school was to give a play in a short time, and Blanche was determined to be in it. "I always used to, when I went to the May school, but I don't think I

will ever again, after what happneed at the last play." Why, what was that, Dorothy? Tell me about it!"

"Honestly, Blanche, I turn a thousand colors every time I think of it But I'll tell you how it happened, if you'll cross your heart and promise never to tell a single soul. Will you?" "Why, Dorothy, you KNOW I wouldn't ever tell anything you didn't

four little plays before this one, and that principle, to quote him further, be able to jump as high when you

as I had hoped, I was given not only greatest possible height a speaking part, but one of the three

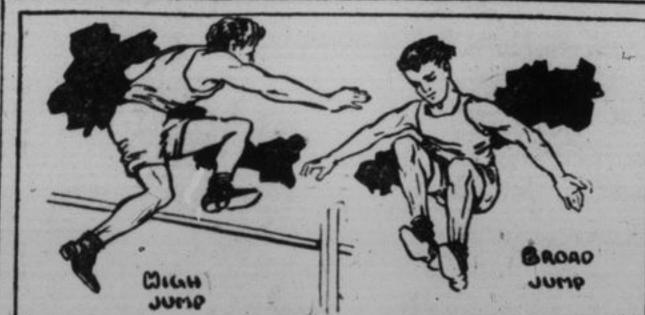
the second act, even, the three lead- check yourself at the take-off. ng characters, which were the moththe daughter, and the son, had to two two curtain calls, so you can see it was going along wonderfully. "But, oh! That third act! Honstir Blanche, I'll never forget it if I live to be a thousand years old. We came to the place where my son was to shoot me, thinking I was a burglar. I walked to the middle of the stage, and he came in from the other side. As he lifted the revolver and started to pull the trigger, I screamed, tottered and fell. And then every

"You see, the revolver failed to go off. And ever since then I've been afraid to go on the stage at all. Do

Here's where I get the best of im," said the cannibal as he cut

TRAINING FOR TRACK

THE JUMPER



There are almost as many ways of | While the manner in which you apwant me to! Now I've crossed my doing the high jump as there are high proach the bar is not of vital importheart, and promised, so tell me what jumpers. Every man has his own ance, it is advisable to run toward it it was that happened before I pass peculiar way of jumping. But, as from directly in front instead of from James E. Sullivan said, the general the side as is the custom with most "You see, I had been in three or principle is always the same. And beginners. At the start you may not when it was announced that the May is to make every part of your body approach the bar from the front, but school was to give a show soon I and every part of your jump from the you will soon get accustomed to the beginning of the run to the clearance approach and you will be able to go speaking parts.

of the bar and the alighting, serve the higher than it one purpose, which is to gain the from the side. of the bar and the alighting, serve the higher than if you ran up to the bar

First, get yourself into proper form. the muscles of your legs. Any exermost important ones, that of the old Do not try at the start to break cise that will develop spring in the mother, who is to be shot by mistake records. It is better to confine your- muscles of the calves and thighs and self to clearing the bar perfectly at is not too strenuous may be indulged "The day of days arrived, and the a height that you feel certain of in. came, although we were all sure it never would. It was a three-act sketch, and, as I had a leading part, Go at it with just enough speed to he broad jumper. Besides speed, the I was on the stage a good deal in carry your body across the bar. Your broad jumper must have such control both of the first two acts, and every- object is to jump high, not far, and of his stride that he can hit the takething went along just fine. Several of a swift run will send you not high into off properly and then throw himself others had been in plays before, the air, but far across the bar. Do out into space to get the greatest and nobody forgot their lines. After not run so fast that you cannot easily possible distance from his jump.



Practice high-kicking daily to loosen

Practice will enable you to judge your stride. Measure off the distance from where you begin your run to the take-off, and then in spare moments run over this distance, getting your stride arranged so that you reach the

take-off on the front foot As you leave the take-off, shoof high into the air. Draw your legs close under you. As you are about to strike the ground, shoot them forward. Throw yourself forward as you land in

Diligent practice will give you skill, provided you have that one requisite

TO-DAY'S PUZZLE

Fill the second blank in the followfill the first blank, spelled backwards: "Ted was playing with his - in a

THE CONTINENTAL LIMITED



One of the World's Finest Long Distance Trains

The history of the railroad in Canada makes interesting reading. While it is one of the comparatively modern astitutions, few have made greater strides in development than it.

Some of our oldest inhabitants may still remember when the first steam locomotive was imported and tried out, idoubtedly many can recall the time when railway service was very crude and meagre.

Records show that the first railway charter in Canada was granted in 1832. In 1836 the first railway, which was sixteen miles long, from La Prairie on the St. Lawrence to St. John on the Richelieu, was opened for traffic. The rails, unlike the solid steel ones of to-day, weighing 100 lbs. to the yard, were of wood, with a strip of steel spiked on the top. The first year of operation, horses were used, but in 1837 a steam locomotive was imported and put into service. Ten years later there were only 54 miles of road open for traffic. However, in 1853 there began a great era of railway construction, bringing in its wake development and colonization. To-day the people of Canada, in their Canadian National-Grand, Trunk Railways, own over 22,000 miles of road, the greatest railway system in the

With the passing of the years and the ever increasing mileage have also come many changes in railway equipment, from the rakish little engine used in 1853, modern invention has evolved the mighty Pacific type of locomotive, weighing 407,700 lbs., and having eight powerful driving wheels, 69 inches in diameter, used to-day. Wooden construction has given way to solid steel construction, and to-day the great transcontinental flier, "The Continental Limited," operated by the Canadian National Railways, is equipped with practically all the comforts and conveniences of a modern hotel. This premier train provides a daily transcontinental service in both directions between Montreal and Vancouver, and is called "The Continental Limited," as signifying that it travels across the continent.

To keep up this daily service via Ottawa, Winnipeg Saskatoon and Edmonton, it is necessary to maintain 14 trains, 10 of which are in active service all the time, the other four being used as guard trains. To equip the trains actively in service it takes 10 locomotives, 30 baggage or express cars, 10 colonist cars, 20 tourist cars, 26 standard sleepers, 10 dining cars and 10 observation-compartment cars—in all about \$3,500,000 worth of equipment.

A crew of 190 men is needed to operate these trains.

The route of "The Continental Limited" traverses six of the provinces of the Dominion From Montreal passes through the famous Cobalt mining district and the pulp forests of Northern Ontario, via Ottawa, North ay and Cochrane, to Winnipeg, thence continuing across some of the richest farm lands of the prairie provinces a Saskatoon and Edmonton. It then proceeds through the Northern Canadian Rockies via Jasper and Mount tobson Parks and follows down the Fraser Valley to Vancouver

Late Mrs. McQuaide, Wilmur. | friends of Mrs. Mary J. McQuaide, mur. The funeral was large attend- eran friends were as much offended Wilmur, April 7.—The many Wilmur, were sorry to hear of her ed by friends and acquaintances to by his agnostic gibes as the merdeath which occurred at her home St. Patrick's church, Railton, where chants by his radicalism. "And I nother day with March 26th. She leaves to mourn a solemn high mass was sung for the can't seem to keep my mouth shut. another day with litching, Bleeding, or Protraction, Prince, Dayld of Kingston, Robert, Frank, David of Kingston, Robert, William and Mrs. George Hogan, ation required and afford lasting benefit see a box; all dealers or Edmanson, Bates & Co., Limited, Toronto, Bample Box free if you mention this and Kate, David and John Johnston, Oates, and William Johnston, William Jo

INSTRUCTOR NEW YORK Y. M.C.A. RADIO SCHOOL ELECTRICAL CAPACITY.

RADIO EXPLAINED

The amount of gas which a tank will hold depends upon its capacity. The amount of gas which is actually pumped into the same ank depends upon the pressure exerted by the pump and also upon the tank capacity.

The amount of electric charge which an electrical condenser will store depends upon the pressure of the charging source and the capacity of the condenser. As might be expected, this capacity depends upon the size and construction of the condenser. Now when an electrical con-

denser is charged it is the material between the conducting plates (called the "dielectric"). which stores the electrical energy in the form of a strain producedin the material itself. The strain is caused by the electrical charges which are placed upon the conflucting surfaces; for example, upon the two tinfoil coatings pasted on opposite sides of a sheat of glass. The glass is the dielectric in this case. The ability of the dielectric to store energy must, then, be taken into consideration in determining the ca-

pacity of the condenser. The thickness of this dielectric is another consideration.

The capacity of any condenser depends solely upon the following four things: (a) The area of the metal coat-

ing, which is opposite (or opposed to) another metal coating. (b) The ability of the dielectric to store energy. (c) The thickness of the di-

electric. The capacity varies directly as does the area of metal coating and the ability of the dielectric (the "dielectric constant") and indirectly as does the thickness of dielectric. A condenser with a thin dielectric, or small spacing between its plates, has a larger capacity than one having a thicker dielectric, everything else, of course, being the same in both

Cases. A condenser has electrical capacity in concentrated form. It is a "lumped" capacity. A single wire may have some electrical capacity with respect to the earth or to another wire. In this case the capacity is said to be "dis-

NEW APPARATUS AND DEVICES

By RALPH BROWN

RADIO ENGINEER, CUTTING AND WASHINGTON RADIO CORF

A NEW VERNIER RHEOSTAT.

A vernier rheostat is an especially desired device for use in securing a critical grid biasing voltage in a radio frequency amplifier cir-It is also of value in securing a radio variation of current in any circuit. When soft detecter tubes are used the experimenter often finds a very close adjustment of filament current necessary. Ordinarily the customary rheostat is satisfactory, but when a critical current adjustment is required a vernier is desirable.

Observation of the cut will reveal two contactors, one sliding over a coiled resistance in the usual manner and the other sliding over a single turn of resistance wire around the insulating base. A clutch arrangement allows either of the contactors to be rotated at will by means of only one knob. The knob is pushed in to engage the clutch for rough adjustments and pulled out for fine adjustments. With the knob pushed in (clutch engaged) the vernier contactor does not side over the single turn, but is moved back and away from it. Rotating the knob then only causes the main contactor to slide over the coiled resistance. When the knob is pulled out (clutch released) the former contactor is left in its last position and the vernier contactor is brought into contact with the single turn of resistance wire. Rotating the knob will now only rotate the vernier contactor to secure the fine adjustment necessary.

The clutch arrangement is very ingenious and rugged. It is easily operated, positive in action and does not make the rheostat any larger than the ordinary types. There will probably be many cases where it can be used to very good advantage.

Will readers interested in these radio articles kindly communicate

MAIN STREET

The Story of Carol Kennicott By SINCLAIR LEWIS

Bea, the chubby and humming low from Elder's factory, and a fe Bea, impartially gave cookies and Svenskas, but you know Be: big scoldings to both children, and if good-hearted wench like her wants a wafer of buttered knackebrod, she over 'em, never satisfied unless she's

Miles had done well with his dairy. somebody, He had six cows, two bundred chickens, a cream separator, a Ford truck.

The tools! In his office Father had tools fascinating in their shininess and curious shapes, but they were sharp, they were something called sterized, and they distinctly were not for boys to touch. In fact it was a good dodge to volunteer "I must not touch," when you looked at the tools on the glass shelves in Father's office, But Uncle Miles, who was a person altogether superior to Father, let you handle all his kit except the saws. There was a hammer with a silver head; there was a metal thing like a big L; there was a magic instrument, very previous, made out of costly red wood and gold, with a tube which contained a drop-no, it wasn't a drop, it was a nothing, which lived in the water, but the nothing looked like a drop, and it ran in a frightened way up and down the tube, no matter how cautiously you tilted the magic instrument, And there were nails, very different and clever-big valiant spikes, middlesized ones which were not very interesting, and shingle-nails much joilier than the fussed-up fairles in the yellow book.

While he had worked on the addition Miles had talked frankly to Carol. He admitted now that so long as he stayed in Gopher Prairie he

world. There was a thing worth something in these rotten one-horse phonograph!" lumber-camps west of town.' But Be's got me hypnotized. Lord, Mrs.

The First Mort-

Carol refused a cup of coffee and a lot of folks around—likes to fuss up this dairy business, and I hate to tiring herself out making coffee for the kid into another one-room shack.

"Their stomachs are out of whack.

pole, waving a hammer and singing were pumphandling everybody at the body. Well- As long as I can ait something about "To arms, my citi- door and calling 'em 'Brother' and and play pinochle with Be, and tell zens"; natled shingles faster than 'Sister,' they let me sail right by with whoppers to Olaf about his daddy's Aunt Bessie could iron handker nary a clinch. They figure I'm the adventures in the woods, and how chiefs; and lifter a two-by-six with town badman. Always will be, I he snared a wapaloosie and knew Hugh riding on one end and Olaf on guess. It'll have to be Olaf who Paul Bunyan, why, I don't mind bethe other. Uncle Miles's most ecsta- goes on. And sometimes-Blamed if ing a bum. It's just for them there tic trick was to make figures not on I don't feet like coming out and say- I mind. Say! Say! Don't whisper a ing, T've been conservative. Noth- word to Be, but when I get this adwith the broadest softestpencil in the ing to it. Now I'm going to start dition done, I'm going to buy her a

> While she was busy with the ac- rubbed his forehead. Kennicott, do you re'lize what a jolly, tivities her work-hungry muscles

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square, faithful woman she is? And | found-washing, ironing, mending, get sentimental on you.

"Course I've had thoughts of pulling up stakes and going West. Maybe if they didn't know it beforehand, they woldn't find out I'd ever been guilty of trying to think for myself. But-oh, I've worked hard, and built start all over again, and move Be and That's how they get us! Encourage us to be thrifty and own our own "Once she kidnapped me and drug houses, and then, by gotly, they've In the spring he had built a two- me to the Methodist Church. I goes got us; they know we won't dare risk room addition to his shack. That in, pious as Widow Bogart, and sits everything by committing lez—what still and never cracks a smile while is it? lez majesty?—I mean they carnival. Uncle Miles did the most the preacher is favoring us with his know we won't be hinting around spectacular, unexpected things; ran misinformation on evolution. But that if we had a co-operative bank, up the ladder; stood on the ridge- afterwards, when the old stalwarts we could get along without Stow-

I love Olaf __ Oh well, I won't go and baking, dusting, preserving, plucking a chicken, painting the eink; tasks which, because she was Miles's full partner, were exciting and creative-Bea listened to the phonograph records with rapture like that of cattle in a warm stable. The addition gave her a kitchen with a bedroom above. The original one-room shack was now a living-room, with the phonograph, a genuine leather-upholstered golden-oak rocker, and a picture of Governor John Johnson. In late July Carol went to the

Bjornstans' desirous of a chance to Calibrees and Joralemons. She found Olaf abed, restless from a slight fever, and Bea flushed and dissy but trying to keep up her work. Sh lured Miles aside and worried; "They don't look at all What's the matter?"

wanted to call in Doc, Kennicott. but Be thinks the doc doesn't like us- she thinks maybe he's sore because you come down here. But I'm getting worried."

"I'm going to call the doctor at

She yearned over Olaf. His lambent eyes were stupid, he mouned, he (To be Continued.)



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