BCHOOL STUDY SPORTS

JUNIOR BRITISH WHIG

BIGGEST LITTLE PAPER IN THE WORLD

HUMOR PLAY WORK

"A Japanese party, I think, would | told her we all like chop suey, so be just the thing for a little dinner she's making that for the main part, he would go into his grandfather's big party for no special date," said with tea, some sort of salad, sherbet, room and up to his funny walnut desk

racked my brains for some way of Did you ever watch them 'bloom'?"



idea of a Japanese party is an old one, but it's always a good one."-

you made any plans yet?"
"Well yes," said Connie, curling up in a corner of the couch. "Til tell party," laughed Connie. "Tim glad house became farther apart. It em-"I thought about the decorations have lots of fun."

for them, just plain little paper made was cool. shades with Japanese figures pasted on them which I'll cut from paper napkins. For the centerpiece Sister is the cutest little Japanese into a lamp post. garden. You ought to see it, Peggy She's making it in a sort of flat bowl filled with water. Bobby got her some sand and pebbles to put around for the shore, and she's going to get some fort of tiny plants for it, and then there's to be a little cardboard bridge with a little Japanese doll erossing it. Won't that be pretty?" "It sure will," agreed Peggy. "And a s'pose you'll have Japanese lanterns strung around, and umbrellas and fans, wen't you?"

"That's what I planned," said Connie. "Oh, yes, and I forgot to tell you about the invitations. They're to be written on long narrow strips of Japanese rice paper I got at the drug store. I'll commence writing them at the lower right-hand corner and write to the top of the paper from right to left. They'll look funny. "Mother's helping with the cats.

"You can decorate things up and some Japanese nuts she got at a and ask for a top. Then his grandso prettily, you know."

"That's what I was thinking."

nodded Connie. "When mother said I could have you girls over, I just in our glasses when the dinner's over.

Japanese store. You ought to see the father would bring out some wonder-fully colored or strangely shaped top and spin it for him, right on top of his deak. giving a pretty party that wouldn't "I should say I have," said Peggy. "I love to watch them."

"That will surely make it a Japanese Sammy's visits to his grandfather's

at each place and I'm making shades kitchen to see if the fudge they had "childish old grandfather always play-

the magician, as he turned his Ford



"I haven't thought much about games yet," continued Connie, "but we have a fish pond and that will be fun. And we can play Japanese tag.
You know that's the kind of tag
where the one who's tagged has to put her hand where she's touched un- ors and low, musical tunes. His til she tags some one else. We used grandfather was always tinkering with to play it at the cottage last summer. "For quieter games we can play that one where you see who can pick the most grains of puffed rice out of grandfather without his tops. As he

don't you borrow six Japanese kimo- Sammy a little. It didn't seem quite nos and some bright sashes? Then right for an old man to be monkeying "Of course it is," said Peggy. "Have give a kimono to each girl to put on around with tops. That was a sport as soon as she comes?"



tope for him. Sammy could remem-

given to him for his very own, and

ONE REEL YARNS

Sammy's grandfather always had

THE SINGING TOPS

Sometimes one of the tops would be he would keep spinning it until he was tired and went to beg his grandfather

them. He would never let Sammy have any of the big tops.

Sammy could never think of his a saucer with chop sticks and put them in another cup a little ways off. Each person is given three minutes. It's lots harder than it sounds."

grandather without his tops. As he grew older and the tops no longer appealed to him, his grandfather still kept buying tops, and Sammy realized that the old man had been buying "I've an idea!" cried Peggy. "Since the tops more to amuse himself than there's only going to be six girls, why to amuse Sammy. This worried for little boys.

you're coming. Peggy. I think we'll barrassed him to have the old gentlefirst. I want them to be very Japan- "So do I," said Pegsy, and she show him. Besides, some of his esy. I'm going to have a candlestick hopped up and hurried out to the friends made sly remarks about his man always bringing out the tops to ing with tops." Sammy was ashamed to speak of his grandfather, and his former love of tops turned to hatred of the sight of them. He felt that it

was all a family disgrace. For over a month Sammy had not been to see his grandfather. Then one day his grandfather called him up, "Thought you'd like to come over for supper to-night, Sammy," he said. "Haven't seen you for some time. I'm having a sort of celebration. A man is writing up a big magazine story about my collection of teps. And that isn't all. I've just sold the rights to a singing top I've been working on. Better come over, Sammy, and help us

TO-DAY'S PUZZLE SEACS, WOHNS, ZEABL, NIRSO,

When the above groups of letters are rearranged to form words, their lagonals, reading from upper left to lower right, form a piece of furniture. Answer to yesterday's: Lot, view,

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ONTARIO HIGHWAYS

dings held in his church. Probably a Report on Provincial Highway Conmarried man, and feels funeral musdtions, Issued by Department. Toronto to Port Hope-Good from Rouge to Oshawa. Gravel road from Is Your Stomach Sour? Oshawa to Port Hope heavy and rut-Do You Belch Gas?

ted while frost is coming out. Port Hope to Belleville-Road in good condition. fortable, just try twenty drops of Belleville to Kingston-Road in

Nerviline in sweetened water. Re- fair condition. Kingston to Prescott-Kingston to Gananoque good. Gananoque to makes you fit and fine in a few min- Brockville fair. As soon as frost gets out of ground will not be able

to get through Escott Township. Brockville to Prescott-good. Prescott to Quebec Boundary -Johnstown to Morrisburg good. Morrisburg to Farrans Point-passable but very rough. Farrans Point to Dickenson's Landing-fair. Dickenson's Landing to Cornwall-good. Cornwall to Summerstown-rair. Summerstown to Meadow Bay-nnpassable after rain. Meadow Bay to

Picton to Foxboro-Road pass-Kingston to Perth (via Smith's Falls)-Road a little soft in spots owing to spring rains, but open to motor traffic.

Quebec Boundary-good.

May 6|June 10|July 15Albania
May 20|June 24|July 29Tyrrhenia
July 8|Aug. 12|Sept. 16Augonia Perth to Ottawa-Road passable for motor car. Considerable amount of snow still on the road. Apr. 4|Apr. 25|May 16 Mauretania Apr. 11|May 2|May 23 Aquitania May 30|June 20|July 11 Berengarie Ottawa to Prescott-Road in good shape for motor car all the way.

> Sentenced to Be Lashed. May 25 July 1 Aug. 3 Saxonia Cornwall, March 28.-Leonard Hopper, aged 42 years, of the town-May 3 May 31 June 28 .. Leconin rested for an offence against a little girl, on Saturday pleaded guilty, and Ford Motor Company's factories has N. Y., to Giangow (via Morfile)
>
> Apr. 6 May 6 June 3 Cameronia three years at hard labor in KingJune 14 July 15 Aug. 25 Algeria five one week after he enters prison, ing views of the project, some of

> > Ford's Forty-l'our Week. of a forty-hour working weak in the nate,

NEW APPARATUS AND DEVICES

BY RALPH BROWN

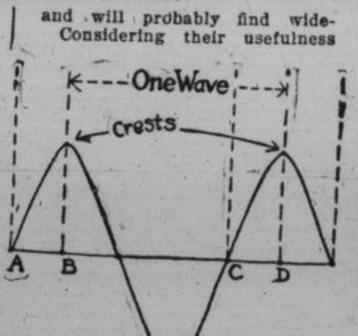
RADIO ENGINEER, CUTTING AND WASHINGTON RADIO CORP.

LETTERED BINDING POSTS.

Many builders of their own radio sets find it very difficult to engrave their panels with the desired legends. An enterprising manufacturer has, therefore, heeded the saying that "necessity is the mother of invention" and brought ou a complete line of lettered binding posts and

No matter what the posts are to be used for there ! one for each purpose. For example, there are posts with knobs lettered ANT for an antenna connection, GND for-a ground connection, A BAT - for the negative "A" battery terminal, A BAT + for the positive terminal, and oforth.

The posts themselves are well made and the machine screws sufficiently long to pa s through the usual sizes of sheet insulating material. The lettering of the knobs is carefully engraved, not stamped, and should retain its legic.lity for a considerable length of time.



Legend-Distance BD-equals AC, and Each Equals Length of Wave.

the posts are very inexpensive spread favor with radi enthuasts who prefer the enjoyment of making their own to purchasing ready-made sata.

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

WAVE LENGTH.

The length of a water wave may be measured from one crest to the next succeding crest. So may also the length of an ether wave. The ether waves which are created at a wireless sending station are invisible, however, and their length cannot be measured by ordinary means.

Water waves travel very slowly when compared to ether waves. The speed of all waves created in ether is about 186,000 miles per second. It is customary in wireless to consider the speed in meters per second and the length of a wave in meters. The speed in terms of meters is \$00,000,000 meters per second. Each ether wave starts at the

transmitting antenna and is radiated from it in expanding circles, in a manner quite similar to water waves created by dropping a stone in a-quiet pond. The distance away from the antenna that one wave will get before the next one starts depends, of course, upon its speed of travel. Suppose that it takes one-

with the editor by mail?

millionth of one escond from the start of one have to the starting of the succeeding one. What distance does the first wave travel before the next one starts? The answer is, of course, one-millionth of 300,000,000 meters, which equal. 300 meters. The length of one wave is exactly the same as that of every other wave created that particular sending station unless changes are made. Therefore the length of each wave in this case is 300 meters. Also, therefore, the time elapsing between successive waves is one-millionth of a second in this particular case. Although the speed, or velocity

of ether waves is unchangeable their length may be altered at will by suitable means at a sending station. Commercial wireless stations are required by law to use wave lengths of 300 and 600 meters. For commercial broadcasting a wave length of 360 meters is being used extensively at present, while amateur operators and experimenters are limited to shorter wave lengths Will readers interested in these radio articles kindly communicate

THE ALBERT L. CLOUGH

Auxiliary Starting Ignition

The Spark May Be Uncertain, When The Starter Is Working Hard

· NOT INFREQUENTLY, difficult starting of very cold engines is trace able to the failure of the ignition system to deliver effective sparks when the starting motor is in action. The starter draws such an enormous current from the battery as to reduce its voltage below the point at which the coil is sufficiently energized to deliver a discharge capable of jumping at the spark-plug gaps, and this is especially likely to be the case if the engine oil is thickened by cold and the battery happens to be at a low state of charge. Sometimes it is found that, after cranking vainly with the starter, a turn or two on the hand crank, with the electric starter out of action, will put the engine into action, the reason being that the removal of the starting motor load raises the battery voltage so that the sparks become effective. Spark-plugs with too wide gaps sometimes aggravate the trouble due to low battery voltage, but even with the ignition system in perfect order, it still is known to occur. Obviously, if there is a separate battery provided to furnish ignition current only, the spark is not interfered with by overloading the starting battery, and this idea has been applied to a few makes of carsthe ignition switch being thrown to connect the special battery during cranking and thrown to connect the regular battery when the engine is in operation. A battery of five ordinary dry-cells makes an effective auxiliary ignition source and the only other requirement is a separate switch by means of which it can be connected to the ignition coll—the regular ignition switch being in the off position. Any electrician can install such an arrangement, and in instances of difficult starting caused by inability of the regular battery to meet ignition requirements under anfavorable conditions, it will prove very useful. In fact it is a good thing, for various reasons, to have an emergency battery on a car.

| TRANSMISSION ADJUSTMENTS



think of the so-called oil-proof somewhere. When climbing a hill piston rings? What distance should in low gear, it has very little power be allowed between the ends of an and sometimes the engine stalls. ordinary diagonally cut piston-ring The power is poor when climbing a

Answer: Some of these oil-proof using light oil, but the drag still iveness in scrapping excess oil down the cylinder walls than do plain rings. With a well designed and high speed clutch does not release adjusted lubricating system and properly fitted pistons, there should be no need of these special rings, but we believe that they can be used advantageously when the above favorable conditions do not prevail. A clearance of 1-64 inch measured circumferentially should too tight so that there is some favorable conditions are not release when it should. The clutch lever screw, which bears upon the clutch lever cam, has probably worn and needs to be turned in a turn or so to compensate for this wear and effect disengagement. It is possible that the low speed band is adjusted too tight so that there is some favorable conditions are not release when it should. The clutch lever screw, which bears upon the clutch lever cam, has probably worn and needs to be turned in a turn or so to compensate for this wear and effect disengagement. It is possible that the low speed band is adjusted

be about right. SNOW WATER FOR BATTERIES the slow-speed connection is out of adjustment. You would do well to J. A. F. asks: Is it all right to have all the transmission adjustment, and the transmission adjustment and

ARE NEEDED K. L. writes: To crank my Ford,

I have to jack up the wheels and H. W. E. asks: What do you there seems to be an awful drag slight grade in high, I am now

measured circumferentially, should | too tight, so that there is some drag at this point, and it may be that solids that may be present?

Answer: Yes, assuming that freshly fallen snow is used and it is melted in non-metallic vessels.

Stream loss of power and unsatisfactory performance. In checking up the transmission adjustments, also look after the brake adjustments.

Questions of general interest to the motorist will be answered by Yr. Clough in this column, space permitting. If an immediate answer is testred, enclose self-addressed, stamped envelope.

and five one week before he is dis- them pronouncing it as impracticable, while others regard it in a more unanimous in voicing their approval

A Divorce Granted

After many years of patient suffering, you can be divorced from corns, you can get rid of them completely by applying Putnam's Corn Extractor. This wonderful old remhopeful light. Labor leaders are edy acts in 24 hours, and never fails. Toronto, March 28 .- Inauguration of the step taken by the motor mag- "Putnam's" is the only Painless rem-Refuse a substitute and remember edy. 25c, everywhere,

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John Wolcott, who wrote audacious squibs over one hundred years ago, was the author of those lines. Pay particular attention to the second line: "And every grin so merrily draws them out." Isn't it true? Haven't you found it to be true?

We need to grin. It is important that we find things to grin

Study and use of classified advertisements is a grin developer. The best known grin developer in the world. If your grin is weak or one-sided, start this minute merrily pulling nails out of your coffin by reading our to-day's classified advertisements. There are several items there of importance to you. They are there especially for you; don't miss them!

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