TOOFOR ATUDY SPORTS

#### THE JUNIOR BRITISH WHIG

HUMOR PLAY WORK

## The Pirates Cave 2

"I'll tell you a pioneer and Indian story," says Herb.

"Sounds like good stuff." says I. "Let's hear it." So Herb started in. pioneer days was a pioneer settlement. One late fall the pioneers got reason to believe that the Indiana were planning to attack them. The settlement was pretty well scattered, so, for protection, the people put up a small og fort and everybody moved in.

stayed in the fort and the Indiana didn't come. The fort was small. The weather was warm. The settlers, not daring to venture far from the stockade, became impatient and restless. "Among the settlers was a family named Miller. There was Mr. and Mrs. Miller and Joe Miller, sixteen years old. They moved into the fort

and then Mr. Miller took a horse and started for Philadelphia for help. Chestnuts ought to be about ready for gathering, he figured. So he planned to spend the day in the woods gathering nuts, Indians or no Indians. Be careful, Joe, says his mother when he started out with his rifle and promised, and said he'd return before

five miles from the fort. He was hav. time, unmolested. gone more than ten yards when there was a yell, a crackling of bushes and | hole an Indian in war-paint leaped out at

Indian toppled over. Joe dropped the saved the fort." broken gun and ran. 'That Indian belongs to a bunch of others,' he thought. "They're probably heading

PUZZLE IS:

The Pirate Seven started out on an | for the fort. I'll have to warn the overnight hike on Friday of last week. folks.' Suddenly there was a lot of That night when we were sitting yelling, coming from the spot where around the fire doing nothing much the Indian had attacked Joe. More Herb Woods suggested we tell stories. Indians! And they were chasing Joe! Their shouts seemed to come nearer. Joe stepped on it. The yells became

"Then Joe discovered he was running in the opposite direction of the fort. He was headed for his own family's cabin. 'Well,' thinks he, 'that's all right. I'll go to the cabin get my canoe and paddle down the river to the fort. I'll get there quicker than I would by running through the

'He found the cance where he had hidden it, paddled to the middle of a little care he was all right again, river and headed for the fort. He but by the time he was able to hop had settled comfortably in the boat about he had made up his mind to when from the abore came a bing! bing!' There was a whiz and a plop!

—a bullet struck the side of Joe's cance. Another whis and a bullet hit

the blade of his paddle. "Joe knew it wouldn't do to con- chattering and scolding gaily, or ridtinue paddling in gun-shot of the In- ing around on Gene's shoulder dians. But there wasn't anythinganother whis interrupted his thoughts. The bullet tore through the sleeve of Joe's jacket, but didn't touch him. Joe fell back in the canoe as though he had been hit. The Indians supposed they had finished the boy. No

more shots were fired. "For fully fifteen minutes Joe stayed was cool, and Gene carried his overin the bottom of the boat. Then he an empty powder bag for nuts. Joe slowly raised himself and looked to coat, and in the pocket of it was the shore. No Indians in sight. He took up his paddle and set out again "Joe spent the whole day four or for the fort. He reached it in a short moving very fast, and he heard

sun was getting low. 'I'd better be Joe told a story. Every man and He seemed to be in a funny little hiking back, thinks he. But he hadn't boy in the place got his rifle and room. Gene was there, all right, but powder ready and stood at a loop- he was asleep. Reddy was curious.

when the settlers sighted Indians at looking for company, but everything "Joe was some surprised. But he the edge of the fort clearing. The was quiet. didn't lose his wits. He swung his Indians attacked. But the settlers gun over his head and landed it on were ready. After half an hour's batthe Indian's. The gun broke and the tling the Indians gave up. Joe had And then we went to bed.

-AL STUBB. Scribe of the Pirate Seven.



THE SHORT STORY, JR.

- Mr. Reddy Travels

but lively enough for twice his size. Gene found him when Mr. Reddy was a baby squirrel and had across the streetcar tracks with-

stay with Gene, and stay he did. He was always running in and about the house and yard, dropping

He was so small, he would often curl up in the pocket of Gene's coat and go to sleep, and you'd hardly know he was there. When the family decided to go up to the lakes for a couple of months, no one even thought of taking Reddy-that is, no one but Gene. The evening they left

down from unexpected places, and

Reddy, who promptly went to sleep. strange sounds. He peeped out as he was inside the fort wonderingly. Everything was dark. He hopped out and found himself in "The sun was just disappearing a sort of aisle. He hopped along it,

> He decided to go back to Gene, but had forgotten just where Gene was. He started to find him. Gene was awakened by a woman screaming, "Oh, oh! Something's in here! Something-" Heads popped out of the berths. Gene felt in his pocket. His heart sank. Somewhere another woman screamed, a man was grunting and shouting for lights. He'd felt something queer run over him, too. Gene saw a pair of bright eyes peering at him nearby. "Reddy!" he called softly. And Reddy came.

They left the train early in the morning, before Reddy was feeling bright again. The porter still tells about the queer "ha'nts" that visited his train one night, "a-trailin' they ghostly fingers over folks' faces, and jumpin' on them, and then disap-

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## RADIO EXPLAINED

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

VOLTAGE AMPLIFICATION.

When head telephone receivers are used for reception, not a great deal of energy, comparatively, is required for their operation. If the signals are quite weak, however, it may become necessary to step up the signal voltage in one or more stages of amplification, so that its amplitudes will be sufficient to cause the necessary plate ourrent variations in the last tube. The response in the telephones does depend upon the amplitudes of the plate current variations in this last tube. The amplification factor is a very important consideration in this connection. It is the ratio between plate current change caused by a given voltage change applied to t'e grid and an equal voltage charge applied to the plate. The higher the amplification constant the greater the response in the head telephones for the same applied grid voltages. The factor depends principally upon the construction of the tube, but does increase with the plate potentials applied.

When a negative potential is applied to the plate by connecting it to the negative terminal of the "B" battery, no current flows in the plate circuit and the internal tube resistance is infinite to direct current. When the plate is connected, as it should be, to the positive "B" battery terminal, it has a positive potential applied to it and the interna plate to filament resistance is a finite value, depend- life of the plate battery.

ing upon the plate voltage within limits. This resistance decreases with an increase in plate potential. and vice-versa. The plate circuit contains the prir ary winding of a transformer whose secondary is connected into the grid circuit of the following amplifier tube in cascade connection. The primary, has a certain average impedance to the average frequency of the plate current variations, and this : ust be greater than plate to f'lament internal resistance of the tube to which it is connected. If the amplifier tubes are connected in cascade after the detector tube. it is, of course, audio frequencies which are dealt with, since the radio frequencies are suppressed by the impedances of the transformer windings. As high an amplification factor as possible is desirable, so as to accomplish as much voltage amplification in one stage as possible. Since this factor increases with plate potential. it is desirable to use the higher values. The higher the normal plate potential, however, the higher the steady plate current and the sooner the "B" batteries will run down. Also, the higher the plate potential the lower will be the internal tube resistance. The correct potential depends upon the tube used and also upon the voltage variations applied to the grid,

since it is desirable to have as low a value of steady plate current as possible, in order to lengthen the

## APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER

TWO TYPES OF FOREIGN HEAD TELEPHONES.

The head telephone receivers/ shown on the right are of English manufacture, and have been found to be very efficient and sat 'actory in use. As will be seen in the illustration, there is a knurled thumbscrew on the back of each receiver case. This is an adjusting screw, by means of which the position of the magnets, with respect to the diaphragm, may be adjusted. The diaphragms can be set close to the magnets for weak signals



and moved further away for the strong signals. The advantage\_ are the increase of audibility of the weak signals 4 .I the prevention of diaphragm rattling with strong signals, which might occur if the diaphragms hit the pole pieces of

the magnets. Instead of having one large opening in the receiver caps, small holes are provided, which tend to keep the moist re from the ears from reaching the diaphragms and eventually corroding them. Connections from the split telephone

the backs of the receiver cases, the cords being provided with spade terminal.. A telephone plug is normally provided for connecting the receiver, into a circui jack. The plug, however, is of prominent American manufacture. A khaki covered head band is furnished with the head set and fits the head easily. The receivers are very light, as the cases are o. aluminum. They are very comfortable to wear and may be adjusted to fit the

The head set illustrated on the left is of German manufacture. The diaphragm is mounted within the cap and hele in place with a sleeve. When the cap is removed the diaphragm comes with it. The adva. tage is that the 'iaphragms can never touch the magnets, although they can be set viry close by adjusting the hard rubber caps themselves. Silk insulated wire is used in winding the magnets. The diaphragms are of a special patented magnetic composition " ich will not rust under ordinary conditions of use. The head band is adjustable and is covered with khaki cloth. Connections from the split cord are made within the receivers, the cord tips passing through bushings in the receiver

cases. Both types of head telephones have met with approval in many United States Government efficiency tests and will probably find cord are made to binding nuts on | many admirers.

A Marald-Sun Feature. Will readers interested in these radio articles kindly communicate

with the editor by mail?

Started There.

men from Picton and Wellington, es Post, who is very ill. including H. H. Horsey, Mr. Benson, W. T. Pettitt, and others, in- guest of her parents, Mr. and Mrs. spected the harbor here on Wednes- L. K. Shourds. Mrs. Dean's little day last with a view to completing daughter was struck by an automothe work started three years ago. bile this week, but escaped serious This would mean that a second pier injury. Robert Hughes purchased would be built on the east side of the residence of Mrs. Jinks on Satthe channel, to prevent the sand urday. Mrs. P. V. Buck, Orono, and drifting in. The party also motor- a former resident of Wellington, who ed to the sand banks to inspect the died at the home of her daughter, large brick plant, which has a capac- Mrs. H. McDonald, recently was ity of 20,000 pressed brick daily. brought to Consecon for interment. The market for the product is ex- Prof. Kenneth Buck, Vancouver, is ceptionally good.

Miss Helen McIvens and Major J. E. McCorkell were married on Wednesday, June 14th, at the home of Mrs. Catherine Hutchison. Rev. J. W. Roblins officiated. Among the out of town guests were Dr. W. H. McIvers, Chicago, and Miss Hettie McIvers, Haliburton, uncle and aunt respectively of the bride.

Mr. and Mrs. Danford Burrows, Belleville, have arrived in town for Mr. and Mrs. Ross Piott and daughel last wek were Mr. and Mrs. Stover, Miss Morden, and Miss Cox, Toronto, and J. Robinson, Trenton. Dr. McCullough has been in Belleville hospital unlergoing an operation. Prof. A. G. Doreand, Westmain here during the summer day last.

D. H. Howard, of Montreal spent held on the school lawn on Saturday. the week-end with their parents, Three pupils from this school will Rev. and Mrs. E. Howard. Rev. write on their high school entrance Je W. Robbins left for Whitby to at- examintions this week at Mallorytend the conference there, and will town consolidated school. Jack Ashlater take his family on a five weeks' by, Mallorytown, spent the weekholiday. Mr. and Mrs. Fogarty, end the guest of Cedric Scott.

WELLINGTON HARBOR Calgary, are expected here this week for a visit. A. Morrison was badly With a View of Completing the Work burned at the Lake Side factory on Monday, while doing some electrical Wellington, June 24-Govern- work. The most serious burns were ment engineers from Ottawa, ac. on his shulders. Mrs. A. H. Moycompanied by several gentle- er, Chicago, is with her father, Jam-

Mrs. (Dr.) Dean, Brighton, is the

BASEBALL CLUB FORMED.

Urging a Teacher to Remain at Junetown.

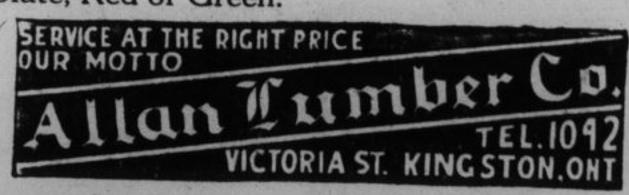
Junetown, June 26 .- Miss Gertrude Scott has returned from Toronto normal school. Mr. and Mrs. J. A. Herbison were in Brockville on Saturday. Several from here attendthe summer, with their two children, on Friday night. Miss Mary Avery, of Estevan, Sask., has been spending ter visited friends here last week. Mrs. A. Avery. Mrs. T. Franklin spent Friday in Brockville. The trustees of our school met with the teacher, E. V. Dyke, on Tuesday evening, and very urgently requested him to remain another year. The boys have formed a baseball team, and ern University, London, accompanied E. Blancher had their little son, by Mrs. Doreand, visited Wellington Francis Ernest, christened at St. on Saturday. Mrs. Doreand will re- Luke's church, Ballycanoe, on Sun-

E. V. Dyke spent the week-end at Loyal Orange lodge, No. 2559, N. Marshall's, Grahamton. Mrs. Dun-Royal Black Preceptory No. 930, and can Warren is quite ill, having been the Ladies Orange Benevolent As- injured by the kick of a cow. Taysociation, Princess Mary No. 430 for Franklin spent the week-end in were addressed by Rev. J. W. Rob- Brockville. Messrs. Arnold and Clinbins on Sunday. The sermon was ton Avery will have a raising-bee on most appropriate, and special music Wednesday, to erect a new roof on was also given. Judge Howard, and their barn. A basket picnic will be

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OPPOSITE BIBBY'S

Peace or War Real Issue in South American Conference



Taken from Bolivia by Force of Arms, Chile has Extracted Untold Wealth from These Nitrate Beds. By George Hitzler.

VERYONE knows that a South American Conference is in session in Washington, but few know what it is about, what its object is, and still fewer Americans know what its objective should be. Since the disaster in Europe, and the near bankruptcy that prevails over there, our trade with South America has increased by leaps and

economic loss.

loss. One of the latest South Amer- supported by Peru. ican loans is that of \$33,000,000 for To impartial American observers

a ready market above par.

bounds. Our trade with the Repub- Bolivia and Peru, of their maritime lics south of Panama last year provinces, rich in nitrates and othertotaled nearly a billion dollars and wise valuable. While Peru suffered we loaned to their governments and territorial mutilation and heavy their municipalities more than \$300,- losses, she remained in possession of 000,000. So we have a considerable a coastline approximating 1,700 stake in those countries. If the miles in length; while Chile expaths of peace and progress are per- tended hers to nearly 6,000 miles. sistently followed down there, we But Bolivia was entirely shut out shall profit by it. If the tension from commercial communication existing between South American with the outside world except states lead to larger military ex- through Peruvian or Chilean ports penditures the result will be a great and customs houses. The maritime province of Antofogasta was taken As we are practically underwrit- from Bolivia and her claims to the ing South American business and districts of Tacna and Arica were finance, we would have to shoulder denied by Chile. In those days the sooner or later our share of that claims of Bolivia to a seafront were

olivia, just floated in New York, in Washington it is becoming clear the bonds of which are now finding that the labors of the Conference will prove a failure and the future Americans, therefore, have a real of South America unsettled for interest in the South American Con- many years, unless Chile modifies ference now in progress in Wash- her policy of territorial expansion ington. The result of its labors by conquest which she introduced means sooner or later peace or war upon American soil and unless in South America. The most un- Bolivia is given access to the sea settling factor today is the loss of in harmony with the new canon of sea frontage suffered by Bolivia as nations that all nations have an una result of the war by means of deniable right to free and which Chile deprived her neighbors, stricted access to the sea

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