## THE JUNIOR BRITISH WHIG

BIGGEST LITTLE PAPER IN THE WORLD

HUMOR PLAY WORK

THE SHORT STORY, JR.

The Black Cat



OOT SAT IN "What's the matter with you?" asked Puff. the Maltese cat. Nothing," said "only-only 'm getting sick being treated way folks treat me just be-

cause I'm black. Why I think black is a very handsome color," said the little Maltese

Soot, "but the trouble is that somehow or other people have got the idea that a black cat brings bad luck. And they're always 'scatting' me, and fires. screaming when they see me run across in front of them, especially

"Well," suggested Puff, "seems to me it would be a good idea if you'd go around doing things for people. Look for something to do that will please them. Prove to them that you're a good luck cat."

"I'll think it over." He got up. stopped. "Here's my chance," he purred. Before him lay a white glove on the ground. It belonged to Nina, one of the girls of the house who was especially mean to him.

"She was out in the garden. reasoned Soot, "and lost it. I'll take at to her and then she'll be sorry for treating me this way." t up in his mouth and started to the souse. On the way he dropped it Jeyeral times, but he picked it up

Up to the porch of the house he He dropped the giove at Nina's "Good gracious!" screamed "That awful cat has got hold if one of my gloves and has been dragging it around in the mud. I slways knew black cats brought bad

Sont slunk back to the garden

SECRET CODES - HOW TO MAKE THEM



Signaling cannot always be done by to each other. A certain combination means of lights. There are times of notes meant: "Come on over;

Sound signals are just as effective until a long whistle with an upward as light signals. The human voice, trill said: "Goodnight." of course, cannot shout words that will carry very far, but a whistled message can be heard considerable distance away.

The Whistled Code Using the dot-dash code already which makes it easily understood a given, the whistler can easily send long way off.
a message. A two-note scheme is As this horn has only one tone. used. The low note signifies a dot the telegraphic code is sent by using and the high tone stands for the dash a short note for the dot and a long stretched, and went out to roam in the system. A slight pause is one for the dash. one between words.

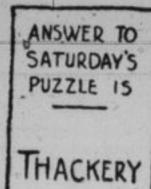
One group of boys who were camp- It is said that prisoners have been ing across the river from another known to communicate with each

when two people wishing to com- there's something doing." Another municate by signals are not in a post- combination said: "Going fishing in tion to see each others signal lights or the morning." They sent all sorts of messages this way through the day.

The Hunter's Horn Another way of sending messages by sound is with a horn. A regular hunter's horn is good for this purpose because of its loudness and clearness.

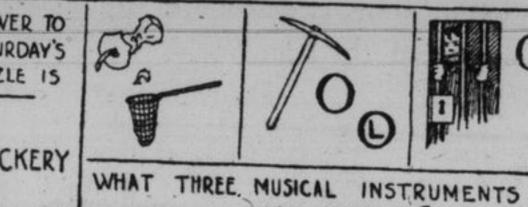
made between letters and a longer | Sending messages by sound codes may be worked out in many ways.

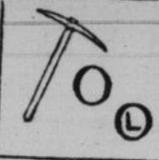
bunch arranged with them a group other when they were apparently of code signals which they whistled snoring.



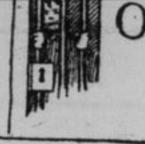
while Glenn sulked.

They clambered aboard





ARE THESE ?



ARTHUR B REEVE

START HERE Dick we're not so exclusive that Guy Garrick and his wireless ex- we're rotters! I feel partly respon- Neither betrayed either interest or pert friend. Dick Defoe, seek the sible for their being here. I raced the burning curiosity they felt as trail of two men and a girl who perpetrated a spectacular holdup at a them on the road and dared them to fashionable radio dance near New follow—and here they are—eh, Stuff. Why, when Brock was even Ruth Walden has innocently become Glenn? Just this once, boys. They'll fishing, away from the "Sea Vamp."

gone there with Glenn Buckley. "the him by the arm and started up the demon lover." who is feared by heach. Guy followed with Vira, "Excuse us. We'll go down below.

NOW GO ON WITH THE STORY They swung off at last on another concreted road and finally nosed down the middle of the sand neck clump of stunted Long Island beach plums, they were astounded to see. a couple of yards ahead on the Bort of corduroy road of boards to the had carelessly thrown over her. "No

they could see a houseboat at anchor and between them and the boat a and Guy, while the others plunged

knot of young people in bathing into the water and swam. They soon As Garrick and Dick strolled down the shere, it proved to be Glenn and three or four other fellows in various stages of college careers past or present. They were class numerals or other marks on their bathing shirts. Glenn was the only one with a college letter—for five minutes of play in a game lost to Princeton. Buckley was a rather handsome lad in spite of his evident satisfaction with himself, tall, slender, with a general impression, "I love the la-

dies and the ladies love me." In spite of competition he was monopolizing Vira Gerard. A jet | shock of bobbed hair set off big liquid dark eyes, eyes that, if they were the windows of the soul, had a depth that was baffling even to the photographic lens, eyes that dominated her splendid features and gave her that today priceless "camera

"Suppose you know this is a private beach?" inquired one of the numeraled youngsters as the two ap- PICTURE

Guy smiled and nodded toward slipped alongside the houseboat with chance yours, Vira?" Vira and Glenn. "Between high wa. its gilt letters SEA VAMP. ter and low water marks?"

cance coming from the houseboat had materially changed the eld-time off my shoulder strap—at the dance! houseboat from a mere scow or It was all—almost all—that stood and stepped out, it was Ruth in a barge with a low flat house on it between me-and the board of censmart swimming suit of violet and moored in a bay or river and only sorship." white that set off daringly her per- with difficulty and expense towed In the laugh that followed, Ruth

The encounter had reached a dan- houseboat like the "Sea Vamp" was you get it, Guy?" ger point much as if some upper really a fair-sized yacht. classmen had discovere a freshman She was perhaps sixty feet long "One of the caddles at the club violating some immemorial tradition and a most attractive craft with a came up to me this morning and of at least two college generations. hull yachty in appearance and of a tried to sell it to me. I thought if All stopped, however, as Ruth type which could safely make long you could identify it, I'd watch him."

ming a scrap of a dance to herself, fort for those on board what was lost tween the "Sea Vamp" and the roband her feet scarcely seemed to
touch the sand. Her golden hair her over carefully. One of the first dance?" he emboldened to ask after framed her sensitive features in an aura of sunlight. Garrick saw with approval that Ruth had been strong. was the aerial of a wireless. during the days of bobbed hair.

Could those laughing, frank eyes they saw a stockily-built man in sea know of crime, of anything coarse?" togs making fast a dory, and taking "You here, Dick?" she danced up out a rather complete set of fishing to him. "Were you afraid to come tackle and other duffie. alone?" Then with a twinkling shaft "H'ye, Cap'n!" greeted Glenn, at Garrick. "What do you think of shaking the water from his eyes as

"Exclusively nifty!" smiled Garrick, "We hire him to take charge of the 'Sea Vamp'."

Ever eager to show of and please, Glenn drew a curtain of a built-in sideboard at the end of the saloon disclosing a very complete set, inthe youngsters muttered, "Snooping take charge of the 'Sea Vamp'."

take charge of the 'Sea Vamp'."

"Too early for snappers yet. Got a couple of flat fish—and an eel." He caught sight of Guy and Dick and the charge of the 'Sea Vamp'." been here long enough. I move we glowered under bushy eyebrows.

put them off the beach. Hey, all "Who are they?" he growled under he had it. From the loud speaker came a girl's voice. A general laugh fellowed. There plained Ruth. "Mr. Garrick and Mr.

as uncertain motion. Ruth Defoe, Captain Brock. Just a couple of friends who are interested in how

"At least we can show Guy and I spend my time."

"Well, so long as it's time they are looking for, all right."

Garrick could not resist a startled second glance as, tucked away in the duffle with great care, he caught sight of an electron tube, with filament and grids, precisely the latest type used in radio receiving. He nudged Dick, but Dick was equally quick. The fishir pole was equipped with a miniature aerial and he had noticed it.

a tool in the hands of crooks. Their quest leads them to the "Sea Vamp." a yacht-like houseboat frequented by Ruth and her questionable young friends. They know that Ruth has Ruth has Ruth capered over to Dick, took message did he expect that he must

Get the shaker and some ice and "I wish you had your bathing suit, . . . you know. I guess we can on, Dick. I'd enjoy a swim across entertain," trilled Vira.

the harbor with you this hot fore-Alone in the comfortably furnished saloon, Garrick glanced a. She nodded vivaciously back at Dick, who shrugged at the unconthat hooked about Duck Harbor. As Garrick. Even if she were doing a ventionality of it all, then made a they drew up, off the road, in a bit of hasty figuring on the why of hasty survey of the place. At one their presence, thought Guy, she was end was a sort of closet or clothes perfectly at ease. Her graceful press. "Snooping," he nodded as he limbs showed fascinating lines opened the door.

Inside hung a nondescript array a short cut and beaten them by thought. "She's a dangerous com- thrown lay a girl's cloth hat. He Still chatting, Ruth and Vira picked it up, smoothed it out, then with a suppressed "Ouch!" drew his hand away and loosened a pin caught in its folds.

"H'm-a diamond clasp-initials V. G .- Vira Gerard?"

"Diamond clasp . . . that's one of the pieces of missing jeweiry, whispered Dick excitedly. "Say-hold that hat again as you had it. There. By Jove, it's not only a hat. It's a bag! Tomato color . . . they said the girl at the Radio Dance put the stuff in a little tomato colored bag.

By Jove" "Here's a camera, too," was all Garrick answered. He turned the camera over, saw the number "6," then defuly unloaded it and dropped the roll of film into his coat packet. There was a step on the companionway. Softly he closed the loor, rolled the hat tightly and stuffed it in his hip pocket under

the tail of his coat. The party thawed a little bit as the ice in the shaker thawed. Finally Garrick took advantage of a lull in the conversation. "I may as well tell you just why

we dropped in," he remarked casually taking the diamond clasp from his pocket. "Is that by any Garrick realized as they mounted ment, then gave a little scream. Vira looked at the clasp a mo-Down the shore could be seen a the ladder that the marine engine "My lingerie clasp—that they tore

from one place to another. Now the was the first to speak. "Where did

drew near. She made a glorious pic- runs along the coast, a staunch, sea- Garrick was unable to figure out ture. She was one of them—but worthy boat—of course without the speed of a regularly designed yacht, but more than making up in com-

"No," hastened Vira. "She was

"And Jack Curtis?" "Oh yes. He was there. He came

A buzzing interrupted. Vira turned quickly to Glenn, who was now seen on crossing swords with Garrick as a lady killer and had resumed his

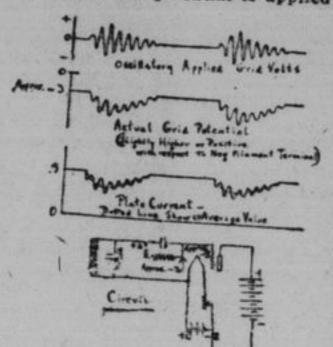
"It's Rae!" exclaimed Ruth. "Signal back that you get her." Glenn officiously played the radio

(Continued in Our Next Issue)

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

### DETECTION WITH GRID CONDENSER.

When a grid condenser is connected in series with the tuned circuit and filament terminal it is customary and advisable to place it as near the grid as possible. In this case the normal potential of the grid will depend upon the arrangement of the circuit. Since, for reasons to be explained, a grid leak resistance is normally shunted across the grid condenser this will also have an effect upon the normal grid potential. Let us consider the arrangement shown in the drawing. The grid is connected to the positive end of the filament through the grid leak resistance, and a positive potential is applied



to the grid. The grid is slightly positive with respect to the negative end of the filament, and a small grid current will therefore llow. There is also a plate curreat flowing because the plate is connected to the positive terminal of the plate battery. This is the

aormal plate current. Now, suppose that the receiver circuits are tuned to an incoming signal and an oscillating potential is applied to the grid through the grid condenser and leak resistance. When the applied (signal) voltage tharges the grid positively the actual potential of the grid rises from its normal small positive value to

charges remain on the grid and the grid becomes negative with respect to the negative end of the filament. When the applied vokage charges the grid negatively no grid current flows, but the plate current decreases still further. After the peak of the applied negative voltage is passed the grid potential rises to a lower negative value, and, with it, the plate current. At the end of the cycle, however, the grid is probably negative with respect to the filament, so that the plate current does not come back to .ts former value. During successive oscillations of applied voltage the grid becomes increasingly negative with respect to the filament until a time is reached when the charge can leak through the high grid leak resistance. After this time the grid gradually becomes less and less negative with increasing leakage until. at the end of the wave train, the grid has assumed its original potential with respect to the filament. During this time the plate current is pulsating and its aver-

increasingly higher values until

the peak of the applied potential

is reached. During this time the

plate current may increase very

slightly, but may actually decrease

because electrons are being at-

tracted to the grid and trapped

there, since they cannot flow

through the condenser nor to any

extent through the very high re-

sistance. After the peak of ap-

plied voltage is passed and it de-

creases to zero, the negative

age value is first decreasing and then increasing until at the end of the wave train the plate current is again normal. In the duration of one wave train there is then a decrease and an increase of average plate current below and back to normal value-one pulse of average plate current will then take place for each wave train, and the telephone receiver diaphragms are vibrated in step with the pulse fre-

quency.

LAD BURNED WHILE BATHING. staff of the Bank of Nova Scotia in

Kehoe of Actinolite. was the victim of a peculiar burning Forsythe, thirty acres and proposes accident. He, with a number of converting it into an ideal home. other boys from the school were spending their noon hour bathing in

the river. Charlie found a stick of some substance-"like a stick of candy" - tore the wrapping off. broke it in two and handed one piece to one of the boys, who threw it away. Charlie put his piece in his pocket where it started to burn, the smoke rolling up in clouds. The lad immediately jumped in the river but the substance still kept on burning. Several men, seeing the great clouds of smoke, came running and took the lad's clothes off him. He was sev-

erely burned but is recovering. The clothes remained on the river bank and were still smouldering in the evening. The substance is supposed to have been phosphorus, although how it came there is a mys-

Two Honorary Degrees. Sherbrooke, Que., June 17 .- Two honorary degrees were granted at the University of Bishop's College. when F. H. Gisborne, K.C., chancellor of the Dipcese of Ottawa and honorary secretary of the general synod, was granted the honorary degree of doctor of civil law, honoris

Right Rev. Dr. Williams, Bishop of Huron, who preached the convocation sermon in the university, received the honorary degree of doctor of civil law, honoris causa.

Betting is Condemned.

Peterboro, June 17 .- At a meeting of the Local Council of Women race-track betting was condemned, and the stand to be taken by the National Council of Women at their convention in Port Arthur, June 19th, asking the government to make betting houses illegal, endorsed. It was thought, however, that such a revolutionary reform could not be made at once, and the local council favored going to the extent of abolishing all race-track literature.

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Let Off With Warning. Chief Phillips, Smith's Falls, located a boy who had stolen a dollar from a milk bottle. The offending juvenile was let off with a warning.

The Milford Parsonage was the scene of a pretty event on June 7th. when Rev. H. Stainton united in marriage Miss Ila Cole, daughter of Mr. and Mrs. John Cole, of Milford, and Howard Dulmage, son of Mr. and Mrs. Stephen Dulmage, of South Bay. Walter Hubbs was last week transferred to Linwood where he joins the

BEFMODDUOIDO

that place. His many friends are Peculiar Accident Befalls Charles sorry to see him leave Wellington. Major W. R. Caldwell has pur-Charles Kehoe, aged twelve years, chased the former Gibson property son of William Kehoe, Actinolite, at Carleton Place from Rev. Mr.





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