

Unknown Ten Years Ago, Wireless Telephone Is Now Widely Used on the Battle Fronts



OW would you like to take up the telephone in the seclusion of your library and talk to your France something on

this order? Scene: An American home some-

where in the United States. Family reading the latest war news from the front. Mother, dad and sis- playing a potent part in the business would be necessary to keep pace with game over there.

B-b-b-ling! The telephone rings! asks if you are there and then hooks up the connection. After an instant comes a familiar voice:

"Hello, hello! Is that you, Dad? This is Bill,"

"Well, well, boy, where are you?" "Just got in from ramming another hole through the Hindenburg line. Got the Hun on the run. Feeling great, Good luck; good-by!"

ff Kaiser Bill had delayed pulling down the roof on the house of the world a few years longer it is quite likely such scenes would have been possible, says a writer in the Philadelphia Public Ledger, Fathers and mothers would have been able to talk to their sons in the faraway military camps here at home. They could have conversed with them thousands of miles out at sea while the great gray ships were conveying the boys over the blue. They could have heard the voice of the boy from the battle-

scarred fields of France and Flanders. Redio-telephony at the beginning of tem of control has been builf up with the world war had just about reached the pliotron as its potential pivot so occurrence for a young American or the practical stage where it was to that the amount of energy in the wire- French aviator now to be talking to take its place with radio-telegraphy less telephone transmitter need be no base headquarters while flying high in as one one of the marvels of the age. One year after Mars unloosed his guns standard telephone circuits. It has With the receiving apparatus on the the human voice was projected across been found possible to connect up this earth attuned to take the contact of the Atlantic ocean-from Arlington, Va., to the Eiffel tower in Paris. In- phone lines so that conversation may atus aloft he is able to report instanttelligible speech was transmitted also be carried out between two people, ly on the developments below, from New York city to Pearl Harbor both of whom are connected with the In faraway Hawaii, close to 5,000 Indio stations by means of the regu- tie more than ten years on the way in miles, or further than from New York lar land lines. to Paris, Rome or Vienna, or from New York to the North Pole.

when the war intervened. Fathers and mothers of America could talk to their sons in France today as outfined above were the facilities avail- tween land stations. able. But man has had to devote all his endeavors to the overthrow of militarism, and as a consequence the ly to be developed faster than inland experiments were made on the battlepeaceful developments of the scientific radio-telephony. It was pointed out ship Connecticut off Cape Cod. Withworld have been held in abeyance unthe time when the beast of carnage trical engineer whose achievement the battleships Kentucky and Illinois, shall have been caged and the human made possible the first wireless tele- a distance of eight miles. family take up again the wonders of phone messages from New York to From this beginning radio-telephony

War Hastens Development.

but hastened the universal utilization of radio-telephony. While the world is engrossed in the titanic struggle from Belgium to Switzerland, it has hand," he said. "We do not know ex- certain, for one thing, that the mesnot had time to note all the remark- netly what causes them, but from our sage of peace, proclaiming the overable progress that has been accom- first experiments we know that they throw of German militarism and the plished in the conversion of the are greater in summer than in winter, triumph of democracy, will be relayed dream turned reality.

America before the war-scoffed at be kept separate by tuning the appa- great day.

Not Afraid of Hangman.

trained near the hill town of Perugia.

cheerfulness, in view of the fact that

them, should they be captured, is re-

markable. But Italy is taking no

tions to her fighting force, who, though | fabrics.

a hangman's rope possibly awaits their hands full,

chances with these invaluable addi- cleanse the finer velvet and woolen

fort and safety. Our boys after the with each other." era of air transportation.

phone will be developed as a casual fare, despite all the gunfire and the commercial asset and men will talk disturbed atmospheric conditions. Gowith their business partners in Lon- ing over the top in trench warfare, the son on the battlefields of don, Paris and Rome, say the scien- old reliable telephone was a handy tists, just us today they use the tele- asset in commulcating to the rear the phone to communicate with Atlanta results of the advance. But lately the or Chicago.

States this fall, radio-telephony is would be set up another extension ter Sue thinking about the big part of winning the war. Thousands of the flying Yankees. Brother Bill is playing in the great young men who go up to the radio arms of the service are linking together the fighting forces of the nation so less telephone now is being employed Dad takes up the phone. Central that each and every separate unit is to such remarkable advantage. Voices closely united under a single guidnnce, working cohesively for the one through the clouds, report the obsersupreme attainment and at a moment's notice in the most intimate contact flight and convey to headquarters the with their milkary directors.

The great problem in radio-tele ments of the enemy troops. phony at first was the question of sufficient energy control. It was nec- uncoil a long strand of wire which essary to develop transmitting sta- nets as the antennae for transmission tions capable of generating high-fre- of the message. An observer in aquency currents and radiating them so huge 'plane, noting the desertion of a that the currents induced in the re- village by the retreating Huns, has ceiving apparatus when rectified but to take up the telephone and would cause no disturbing noise in "hello" his chief with the important the telephone receiver. It was necessary also to find the means by which the amplitude of the high frequency currents could be controlled and modulated by the voice so that the amplitude of radiated waves followed closely every variation in the voice.

Brought Under Control.

Scientifically demonstrated as a ment of the first wireless telephone. feasible proposition, the wireless tele- The first was for long distance where Forest, who succeeded in transmitting phone was about to be commercialized wire telephony was impossible over a distance of a few feet across a tasubmarine cables and expensive on ble without wires. land. The other was for short distances between ships at sea, and be-

Atmospheric Conditions.

some time ago by J. J. Carty, the elec- out wires messages were relayed to The war, if anything, however, has across land because there were fewer that has been done in a military way atmospheric disturbances.

the greatest problem we have at some startling disclosures. It seems "theoretical" to the "practical"-the so are probably caused by electrical completely around the world by the disturbances in the atmosphere, Theo- wireless telephone-a voice out of the Aviation was a hazardous game in retically any number of messages can clear sky proclaiming the dawn of the

as the sport of daredevil fanatics, ratus and other devices. Practically Yet at this moment the winged mem- when it comes to the rapid vibrations bers of our air cavalry take to the necessary to carry the human voice, clouds with the same nonchalance the number is very limited. There is that the average motorist tunes up for no way of preventing anyone within a trip to the seashore or mountains, the zone of communication from tak-Robbed of its battle dangers aviation ing any message his instrument is today stands out as an accomplished tuned to. And if there were many fact, to be negotiated with ease, com- messages at once they would interfere

war will turn their garages into han- It would appear now that these difgars. The aerial postman breaking faculties were being overcome for, acrecords today between New York and cording to reports from the battle-Washington is a harbinger of the new fields of France, the wireless telephone is proving a mighty valuable as-So after the war the wireless tele- set in the maneuvers of modern wartroops have been going forward so fast In the army and navy of the United that as soon as one telephonic line

> "Hellos" From the Clouds. It is in the air service that the wireout of the nir, messages filtering down vations made during a reconnaissance valued information as to the move-

It is said the airplanes now in flight message. Instanter the Yankees are away In pursuit. The incandescent lamp plays an im-

portant part in the great game of wireless telephony from air fleet to land battlements. A tiny lamp that can generate one horsepower of energy is used to receive the faint currents, and All of these difficulties have been a larger one boosts the currents so overcome in the last few years by the that the ordinary telephone apparatus

According to report, it is a common larger than that commonly used in the beavens 80 to a 100 miles away, radio telephone with the regular tele- wave lengths from his sending appar-

The wireless telephone has been lit-Two fields of activity for radio-tel- theories long held tenable. It began ephony opened up with the develop- with simple experiments in the New York Inboratories of Professor Lee De-

Message of Peace.

It was first employed at sea on shipboard in July, 1907, in reporting yacht races from the yacht Thelma in Put-in-Transoceanic communication is like- Bay, a distance of four miles. Next

Pear! Harbor, Hawaii, that transmis- was developed until trans-oceanic sion across the ocean was easier than communication became possible. All cannot be revealed until the war is "Overcoming these disturbances 4s over, but it is certain then to unveil

Manless Bombing Plane Invented. they wear the Italian gray-green uni-There are said to be about 20,000 form, carry on their collars the stripes, Jacob Weisbaum of Cincinnati, Ohio Czecho-Slovak troops in a single group red and white, of their national Bohas invented what he calls the "Welswith the Italian army. They were hemian colors. They are to be used baum manless bombing plane." He claims the machine, without the aid of only when Italy strikes her next and then moved to the battle front. blow, and can advance instead of rehuman hands after it leaves the They are mostly deserters from the tire. Judging by the way things are ground, can be propelled through the Austrian army, and their uniform going for Austria, the smiling, singing air at terrific speed toward an objec-Bohemians ought soon to be finding tive upon which it will automatically release death-dealing bombs.

> Japanese claim to have invented matches that will light perfectly even

Correct Standing Position.

want to grow straight and tall. Place your heels nearly together, the toes pointed slightly outward, the legs rigid, the trunk and head well erect, and the shoulders somewhat back, so that the chest can expand freely. The arms should hang easily at the sides, the fingers slightly bent with the thumbs in front. You will feel self-conscious at first when standing correctly, because the more unnatural the position seems to you, the more incorrect your stand-

ing position has been in the past. Prac-Practice this standing position if you | tice for a while at home until the position will become as natural to you as breathing. An incorrect standing or sitting position is responsible for a multitude of ills, both beauty and organic. This is due to the fact that the entire organic system is thrown bird seed for cuckoo clocks, but the out of place and so cannot perform its champeen, double-bowknotted, floatin'

Thoroughly dry bran will quickly

convention of the Minnesota State Bar dropped when she knitted.-Indianapo-

He Takes the Blue One. Of course you've heard about the hardworked guy whose job was to pick the blossoms off the family century plant; the bloke who sticks the spots on double-blank dominoes and the culprit whose life work is making axled and vulcanized war loafer is the cuss who said he was doing war work Woman suffrage was approved at the by picking up the stitches his wife lis Star.

CALLOUS AMID HORRORS OF WAR

Grewsome Sights of Battle Fail had been told to maintain their to Shake Nerves of Yanks.

QUICKLY ADAPT THEMSELVES

Admiration of French and British Veterans Is Aroused by Conduct of Americans on Bloody Battiefields of France.

lousness and steady nerves of fresh American troops in recent advances have gladdened the hearts of veteran British and French who have observed them, as well as filled with pride their own officers.

The horror of warfare is more apparent during an offensive when an army is advancing than at any other time; even during a defensive action in a retreat. Attacking troops advance over the enemy's positions, dotted with dead and dying, then dig in and fight among the corpses and maimed. Often in a counter-attack they are temporarily thrust back a few yards, and there dig in and fight again, this time among the bodies of their own fallen com-

When their advance becomes deeper and the enemy's retreat more general, as in Von Boehm's retirement from the Marne to the Vesle, the terrain beof country is littered with dead men and dead horses. The advancing army enger to maintain contact with the enemy at all times, has no time to bury or burn these corpses, respectively. The supporting troops following up the advance guards must live and eat among these grewsome sights.

Never Feased Them. Fresh, untried Americans, who had not seen the frightfulness of war, al- were, though they had been trained in its | The signal corps was the connecting country like veterans, never turning hair at the sight of dead, friends or foes, even when they came upon gaining ground. such sights as Reddy farm, Bellevue farm, Clerges, Seringes et Nesles and

these piaces, particularly the Prussian Guardsmen were literally over the area. lying in heaps, for these picked troops | Then, about the time you get a wire

in most cases they followed orders.

The dead were in the distorted positions that indicated how the end had come to them. Those killed in mathe effect of hand grenades and bombs hind them. Occasionally one saw German snip-

ers or machine gunners sprawled flat on the ground at the foot of a tree With the American Army .- The cal- after they had been shot out of their camouflaged positions among its follage. The most sickening sights were fate of their fallen comrades. The where bodies of the enemy had attempted to make stands in ditches or them and never rattled even the newbeside sunken roads and had been trapped by American enfliade machinegun fire. The deadly automatic rifles had ripped through whole lines of automatic pistols, the most prized Germans, and investigation frequently pierced by seven or eight bullets and that frequently the same bullet passed | Hun cadavers.

marched forward, stopped three or four times a day for meals, and then made camp, and slept at night amid strong point positions until death, and the horrible surroundings without ever doing more than showing a surprising preliminary interest in the matter. If they saw a corpse in khaki they looked it over closely to see if they knew who chine-gun pits were smashed to bits, it was. Only occasionally did they have time to inter it; that was left to which American advance guards had the burying parties that followed them tossed in among them after working up. As they walked through woods round their flanks and getting in be- and fields to get water or supplies, they

through three or four men. These

corpses looked like heaps of rags or discarded uniforms and equipment, so closely did they overlap one another.

No Trace of Nervousness. But, despite all, the Americans

implanted rifles, bayonets down, in the ground to mark the spot of every dead American they discovered. But there was no trace of nervous-

ness and no evidence of any of the men worrying or brooding over the corpses were entirely impersonal to est recruit. The doughboys showed no back-

wardness about appropriating Luger souvenir to be had, from dead Boches, showed that every man's body was nor did they hesitate to pluck off wellcamouflaged helmets from the pates of

working order, call up headquarters to

tell them, "This is the new post at

Squeedunk; give us a ring to see how

she works," along comes another Boche

There's nothing to do but go out and

find the cut and fix it, and probably

more Boche shells are trying to make

more cuts in communication, or even

The signal corps had wires every-

where, in bushes, along the ground, on

poles left by the Boches, underground

through ruins. Hendquarters say they

never had such quick service, and they

were never out of communication with

regiments longer than the few minutes

it took a signal corps man to inspect

A signal corps man was stringing

some wires across a wheat field, "Some

war this," he said. "I haven't had a

sleep for more than two days. I sup-

pose I'd fall asleep on the Job if it

weren't for these shells that come

whistling along. Duck. There comes

the wires and repair a break.

shell and cuts the communication.

SIGNAL MEN HUSTLE

cut you off.

They Have to Work Rapidly as stretched along the ground and in Fight Rages.

comes even more ghastly. A wide belt Wire Connection is Prime Necessity No Matter How Fast Shells May Fly.

> With the American Army in France. The signal corps men had to do some fast work during the recent fighting to keep up with the infantry and to keep communications always open between headquarters and the villages newly captured where the doughboys

artifice and had been in the line in link between the infantry, artillery. quiet sectors, traversed the ghastly ambulance service and headquarters. It's no cinch being the signal corps after a division that is continually "As soon as the infantry makes a

push you have to get a telephone line strung into the farthest ruins or woods or wheat field, no matter how many first two mentioned, the bodies of the German shells are spattering madly

WIPER OUT OF THE MACHINE-GUN NESTS

This is one of the small British tanks that do such valuant service in

wiping out the machine-gun nests that the enemy relies on to make good his

FOE FEARS FRENCH TANKS

With the American Armies.-Greater | call them, the advance was three miles

the Legion of Honor for his work in a the light tanks and are studiously

light tank which enabled 15 American | coaching their men in methods of de-

the enemy's lines, destroying his ma- one-and-a-half-inch gun and a machine

Where the infantry was preceded become interested in co-operation and

HUN SELLS SUPPLIES SEIZED HARD DAYS FOR THE CROOKS

French Forced by Germans to Pay in New Draft Law Makes It Easy to

France.—Renewed evidence of German lice here are not satisfied to hunt

ruthlessness in dealing with the civil- crooks in the regular way, but are go-

an population of invaded territories ing out of their line to look them up,

s contained in a captured army order, according to the plaints of the under

It prescribes the treatment and the world. It isn't enough to make them

procedure to be followed in a section give up their easy life, earned at the

south of the Vesie river (Marne sall- expense of the city, to register and go

All the inhabitants capable of work- ing to get a lot more of them by means

ing, the order says, must be used for of registration cards for the draft.

the needs of the army, regardless of Many of the robbers and other crim-

their age. Their "salaries" are to be Inals have escaped detection through

paid in paper currency at the rate of a series of aliases, but with their reg-

50 cents a day as the maximum for istration under the eighteen to forty-

men; 40 cents for men and women be- five call they had to make known their

tween the ages of seventeen and twen- right names, and police assert that it

ty; and 30 cents for boys from fifteen will be "easy picking" now to gather

The inhabitants, however, must pay wanted for some time.

by the "chars d'assaut," as the French are selling stock to start a store,

It was these same French light tenks

the Solssons plateau. One of them,

than 200 Germans on the plateau.

fense against them.

manned by a lieutenant, killed more

The light cars have the advantage

of greater speed and of being more

They require a crew of only two men,

a driver and a gunner, and carry one

Trade unionists in Sedalia, Mo., have

Hunt Down Criminals.

Cleveland.-It's getting harder every

day for an honest crook to get by. Po-

to war, but now the local police are go-

in a number of men who have been

converted into ingredients for explo-

laurels daily are being won by the a day,

French light tanks which are co-oper-

ating with the American forces in

Among the many individual feats of

the tanks and their drivers which have

come to light, one of the most interest-

ing is that of Brigadier Cellier, who

Several hundred of these tanks led

the counter-offensive from the Villers-

Cotterets forest in July, which marked

what appears to have been the turning

point of the war. They broke through

chine guns, overcoming strong centers

of resistance and spreading panic rad

demoralization in the German ranks.

Coin for Rations They

Once Owned.

to seventeen.

ing sold back to them.

With the American Troops in

in French gold or silver for their ra-

tions. The supplies, of course, were

taken from the population before be-

soldiers to capture 700 Germans.

****** "JERRY" NEW NICKNAME FOR GERMAN SOLDIER

It's Jerry now, not Fritzie. It has been noted recently in soldlers' letters that the pet name for the enemy among the Yankees in France is "Jerry."

At the beginning of the war the name was applied only to German aviators, but It is rapidly being adopted for all of the

HAND MIRROR SAVES LIFE

Used to Make Signals of Distress by Survivors of Torpedoed Steamer.

Lendon,-A woman's hand micros vas the means of saving 50 lives from the torpedoed liner Galway Castle, Among the survivors on a raft was a woman who took from her handbag a small mirror and suggested one of the sallors use it for making heliographic signals. The attempts was made and the sig-

nals brought up a destroyer at full speed which took off the survivors from the raft as well as a number of saffors elinging to wreckinge.

SERVANT LACK AIDS HOTELS

Scarcity of Help in Homes Sending Families to New York Hostelries.

New York,-Although the fuel problem which developed in New York which preceded the Americans in their homes last year is to a great extent repushing the Germans back toward the advance upon Juvigny and Terny on sponsible for the unprecedented business of the apartment hotels this fall. there have been new developments which increase the influx of apartment Documents that have come into the hotel dwellers throughout the city. The hands of the French staff show that greatest individual reason is the servhas been decorated with the cross of the Germans are greatly worried by ant problem.

Persons who have had servant staffs for years without a change have been known to lose as many as three in a single week lately because of unprecedented demand for experienced help easily handled than the heavier tanks, and the prices offered for it.

The apartment hotel habit is easily formed, and with the scarcity of fuel, scarcity of help, scarcity of suitable apartments and scarcity of vans to ac complish large movings the fact that there is hardly an apartment hotel vacancy left in New York is not especial-

BUILD MOTOR MAIL SLEIGH

Vehicle Designed for Mail Delivery Work in A'aska Completed for Government.

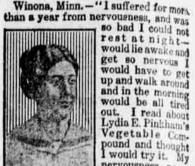
Cleveland, O .- The government's first motor sleigh, designed for mail delivery work in Alaska, has been completed here and shipped to the West coast, where it will get a test tour before entering the regular work of delivering mail in the frozen North The machine was invented by F. G Horner, former Clevelander, who for several years has been with the motor transport service in Washington. It is 25 feet long, three feet wide and is expected to cover at least 100 miles of ice or snow track a day with a burden of 500 pounds of mall. Present deliv ery in the field the sleigh will enter is made by dog teams.

What Our Heirs Think.

"Our lowest ambition should be life of ninety years," says a noted French stocks of absinthe are being physician. Well, it is sort of a lew ambition just merely to hang on.—Bes ton Transcript.

WOMAN'S NERVES MADE STRONG

By Lydia E. Pinkham's Vegetable Compound. Winons, Minn. - "I suffered for mora



rest at nightwould lie awake and get so nervous I would have to get up and walk around and in the morning would be all tired out. I read about Lydia E. Pinkham's Vegetable Compound and thought I would try it. My nervousness

left me. I sleep well and feel fine in the morning and able to do my work. I gladly recom-mend Lydia E. Pinkham's Vegetable Compound to make weak nerves strong."— Mrs. ALBERT SULTZE, 663

olimstead St., Winona, Minn.

How often do we hear the expression among women, "I am so nervous, I can not sleep," or "it seems as though I should fly." Such women should profit by Mrs. Sultze's experience and give this famous root and herb remedy, Lydia E. Pinkham's Vegetable Com-

pound, a trial. For forty years it has been overcoming such serious conditions as displacements, inflammation, ulceration, irregularities, periodic pains, backache, dizziness, and nervous prostration of women, and is now considered the stan-dard remedy for such ailments.

A Cold **Proposition**

When you are wheezing and sneezing, coughing and hawking, you're facing a cold proposition. Handle itright. Hales Honey of Horehound and Tar quickly relieves bad cases. All druggists, 25cts. a bottle.

Try Pike's Toothache Drops

Up Against It.

A corporal was drilling his squad nd before he noticed where they were oing they had marched right up to a ence, and, according to rules, were marking time. The corporal, trying to emember the proper command, looked puzzled for a moment, then locally rave the command, "Git away from hat fence-march!"

Examine carefully every bottle of CASTORIA, that famous old remedy for infants and children, and see that i

Signature of Cart Hilthur. In Use for Over 30 Years. Children Cry for Fletcher's Castoria

Safe Excursions. "There is a deathless joy in natural

cauty." "Oh, that's one result of the isless Sundays," There are more fugitives from inju-

ce than from lustice.

Suffered Terribly!

"Every Step a Torture," Says Mrs. Whitenack-But Doan's Cured Her Mrs. Florence Whitenack, 84 Arm

strong Ave., Jersey City, N. J., says "I suffered with rheumatism for six of seven years. My limbs and joints were so stiff and swollen, I could walk only with difficulty and the pains in my hips were so severe, I could hardly bear them.

Every step I took was torture. My feet and limbs were swollen and so sore, I could hardly bear my weight on them. During the night I would lie awake for hours and become so nervous, I would

have to get up. Dizziness Mrs. Whitesach came over me suddenly and my sight blurred. I was never free from the miserable backaches and rheumatic pains. I used different remedies, but I didn't get any better. menced to use Doan's Kidney Pills. The swellings began to leave right away and I continued to use them. e pains and aches left my back and hips and I am cured of the rheumatism and all signs of kidney trouble." Sworn to before

ROBERT KING SEIDEL, Notary Public. Get Doan's at Any Store, 60c a Box DOAN'S RIDNEY

Why Bald So Young Rub Dandruff and Itching with

FOSTER-MILBURN CO., BUFFALO, N. Y.

Cuticura Ointment Shampoo With Cuticura Soup One Hundred Per Cent American.

"What can I do to prove my devoon?" he asked. "Buy more Liberty bonds," she re-

led for she was 100 per cent pa-

A man's idea of a perfect day is that which ends by sticking the other fellow for the dinner.

A torpid liver condition prevents proper food assimilation. Tone up your liver with Wright's Indian Vegetable Pills. They act gently and surely. Adv.

The world soon forgets a man who ins his laurels and then quits.

The best thing going is an unwelcome guest.

Granulated Eyelids, OUT Eyes inflamed by expo-sure to Sun. Dust and Wind Eyes eure to Sun, Dust and Wind quickly relieved by Murine EyeRemedy. No Smarting just Eye Comfort. At our Druggists or by mail 60c per Bottle. or Bock of the Eye free write durine Eye Romedy Co., Chicago,