

WAR INVENTIONS COMING TO LIGHT

New York.—As the seal placed upon the activities of America's inventors by the war is broken, news of many interesting achievements unknown to the public during the conflict are being brought to light. A system of sending and receiving wireless telephone messages at the same time, as is done in wire lines; a "barrage receiver," which shuts out the sound of all wireless vibration except those which the operator wishes to hear, and a system of rapid and accurate photography of wireless messages became known to the public for the first time recently, although government naval stations have been experimenting with them for some time.

Engineers of the General Electric company at Schenectady are responsible for each of the inventions. Ernst F. W. Alexanderson, consulting engineer of the company, told of the development of the barrage receiver and wireless telephony ideas at a meeting of the Institute of Radio Engineers at 29 West Thirty-ninth street recently. C. A. Hoxie of Schenectady, another General Electric company engineer, is the inventor of the wireless photographic apparatus.

Sending and Receiving.
Doctor Alexanderson told the engineers that obviously some system of simultaneous sending and receiving would have to be invented before wireless telephony would ever become commercially practicable. Switching from one apparatus to another to send and receive would be annoying and delaying. For instance, the user of the telephone on this side of the Atlantic says: "Hello" into the mouthpiece. Then he has to switch to another apparatus to catch the answer from Europe. And perhaps his friend overseas is doing the same thing, and the attempt at conversation develops into a sort of hide-and-seek game. There was also the problem of bringing the wireless telephone to the home of the user. If one has to travel to Washington or New Brunswick to use the wireless telephone it is scarcely a saver of time or money.

Doctor Alexanderson has devised a system of separate sending and receiving antennae, the sending and receiving stations interconnected by a wire line and further connected to the exchange of the local telephone system, so that all Mrs. Jones has to do when she wants to find out what Mr. Jones is doing in Paris tonight is to

go to her telephone and ask, not for toll operator, but for the wireless operator. He will connect her with Mr. Jones.

The Barrage Receiver.

The invention of the barrage receiver came about as a result of the confusion into which the wireless machinery was thrown during the war. Through her powerful stations at Nansen and elsewhere Germany was maliciously flooding the atmosphere with wireless "noise" so that communications between France and England and America became very difficult. Germany was completely drowning out the voice of America's allies. The international conference in February, 1918, sought a way out of the difficulty, and appeals for a solution were brought to Doctor Alexanderson by Lieutenant Paternot of the French mission in this country. The solution, which was adopted by the French and American governments after its first demonstration was called the "barrage receiver," because the word "barrage" has the original meaning of stoppage prevention. The barrage receiver successfully shut out the vibrations sent out from Germany with the object of destroying the allied intercommunication. Its principle can be compared to that of an instrument which, if applied to the ear, would silence the shrieking of a steam whistle ten yards away, while enabling the listener to hear perfectly the spoken word a hundred yards off. Aside from its wartime use the barrage receiver has extensive possibilities for peacetime development. Through its use the number of communications that may be carried on without disturbing each other may be multiplied greatly.

'T WAS A COURTSHIP BY WIRE

Delaware Operators Even Made Arrangements for the Wedding by Telegraph.

Ellendale, Del.—Love over the wire resulted in the marriage of Miss Dena Veeney, telegraph operator at Ellendale, and Edward Rust, operator at Redden.

The two were but seven miles apart on the wire, and each, seeking a greater proficiency, practiced sending messages to the other in leisure moments. During all their courtship the two sent their messages back and forth over the wire, and finally when they decided to slip away to Wilmington to be married the arrangements were made by wire.

Marconi says people can talk across the Atlantic, but the censor has the last word.

HUN HIDES 4 YEARS

Conceals Self in New Guinea Jungle During War.

Konrad Detzler, a German army engineer who had been hiding in the New Guinea jungle since the beginning of the war, has come back to civilization and now is in an internment camp in Australia. Detzler's story is on a par with other romantic incidents of the war as it affected the South sea.

Detzler holds a captain's commission. When the war began he was surveying the boundary line between the then Kaiser Wilhelmland, or German New Guinea, and Papua, or British New Guinea. He decamped into the bush. This was a risky act, for the bushmen prefer human flesh above all other kinds. When an Australian force occupied Kaiser Wilhelmland Detzler was overlooked.

For more than four years Detzler lived in the bush near Mismis. He had a shotgun, but it was not long before he ran out of cartridges. Thereafter he lived on yams, taro and kau (a variety of sweet potato) in common with the natives, and upon birds and animals which he caught by means of snares.

Several times the Australians searched for him, but Detzler managed to elude them. He might have stayed indefinitely in the jungle, but missionaries told the Papuans of the armistice and they in turn told him. Thereupon he surrendered to the nearest Australian officer. While living throughout the war at Mismis, Detzler wore only a lava lava (native kilt). The result is that he is almost as brown as a Papuan. He now wears a German uniform.

HOW DEPTH BOMB STARTED

British Admiral Responsible for Weapon That Revolutionized Anti-Submarine Warfare.

New York.—How the submarine depth bomb, familiarly referred to as "ash can," came into being to revolutionize anti-submarine warfare was related here by Rear Admiral William S. Sims, commander during the war of the American naval forces overseas.

Rear Admiral Sir Charles Edward Madden, chief of staff to Admiral Jellicoe, was the author of the idea, Admiral Sims said, giving as his authority Admiral Jellicoe.

The idea came to Admiral Madden, he continued while the British officer

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WHERE IT PAYS TO TRADE

was aboard a cruiser which sighted a submarine. The cruiser gave chase, he said, but as it drew near the submarine submerged. Admiral Madden, chagrined at the cruiser's failure to "get" the submarine, exclaimed:

"Why wouldn't it be a good idea to work up some sort of a device to drop on these Huns?"

Other officers approving the plan, the cruiser put back to port, where the idea was presented to Admiral Jellicoe. He approved the plan, and munition experts were put to work devising the "ash can."

The depth bombs evolved contained 300 pounds of trinitrotoluol and were capable of wrecking a submarine.

SPOIL O. HENRY'S SKETCHES

Texas Workmen Tear Down Building Where the Author Was Employed.

Austin, Tex.—Sketches on the walls of the old land office building on the capitol grounds, drawn by O. Henry the author, while he was a clerk in the statehouse here, are being destroyed. Workmen are tearing down the building.

O. Henry, in his adolescence, published a little weekly, The Rolling Stone, worked in the land office as a clerk, and worked prodigiously on the stories that later were to entertain an army of readers.

His real name was Sidney Porter, and he was then unknown to fame. No one seems to remember whether he was a good clerk, and those who have seen the sketches say that as an artist he was a good story teller.

Kaiser's Youngest Son Hopes to Live in U. S.

Geneva.—The former Prince Joachim of the Hohenzollern family hopes to emigrate to America after peace is signed, according to report.

Joachim, who is the youngest son of the former German emperor, has arrived here from Berlin, and expresses his intention of remaining in Switzerland until after the peace settlement.

The Hohenzollerns have just bought a large estate near Lugano, where the former emperor eventually hopes to reside in exile.

Waited Forty Years for Son's Return. Berwick, Pa.—When Lawrence Boyd left here for Seattle, Wash., in 1879, his mother expressed the hope that she would live to see him return. Although she had to live to be eighty-six years old, she has enjoyed the fulfillment of her wish; the son returned a few days ago on his first visit in forty years.

In spite of his utter failure as a prophet, the ground hog will be back next year appealing to the credulous as faithfully as ever.



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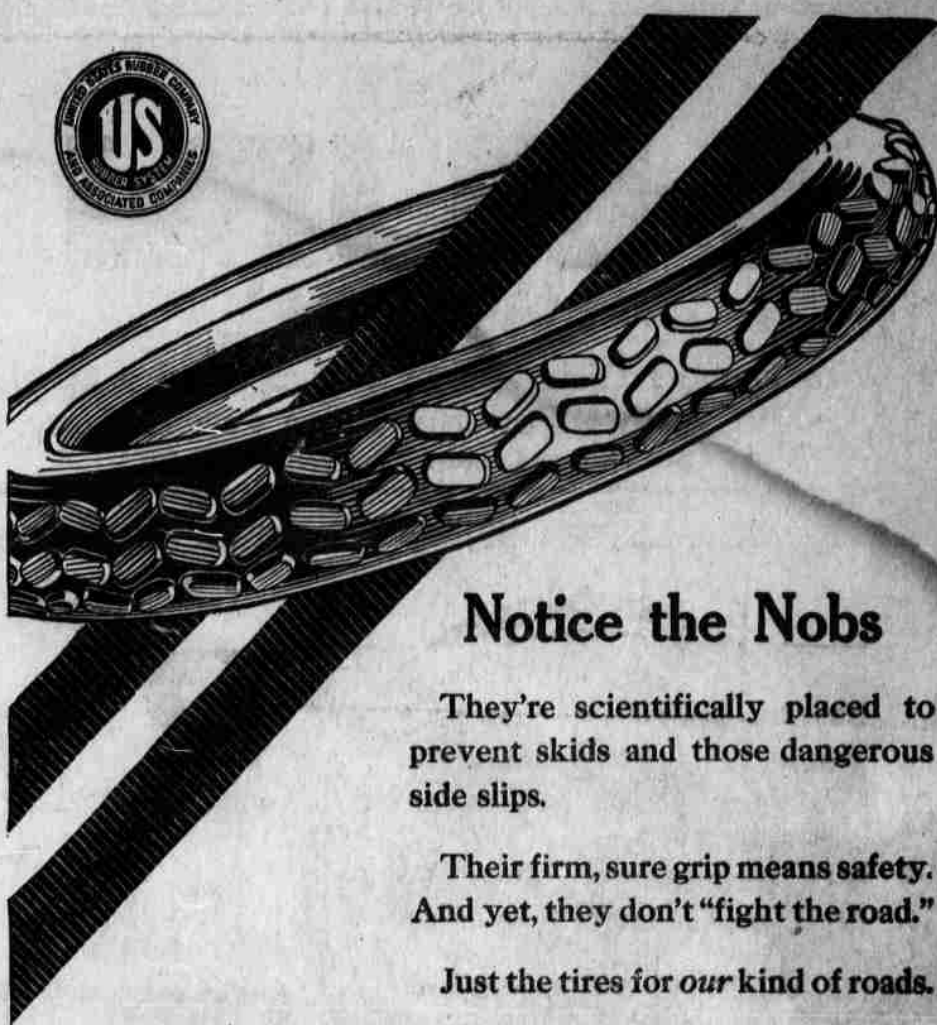
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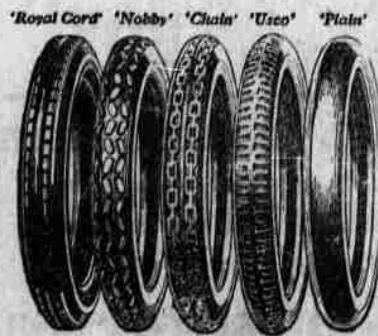
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