

MERE BOY WIRELESS WIZARD

Claude Bristol Makes His Own Apparatus and Completes a Practical Wireless Outfit — Schools Other Boys in Method.

It is doubtful if there is a man in the west under 25 years of age who has accomplished as much in the study of wireless telegraphy as has 15-year-old Claude Bristol, son of J. N. Bristol, 254 Chapman street.

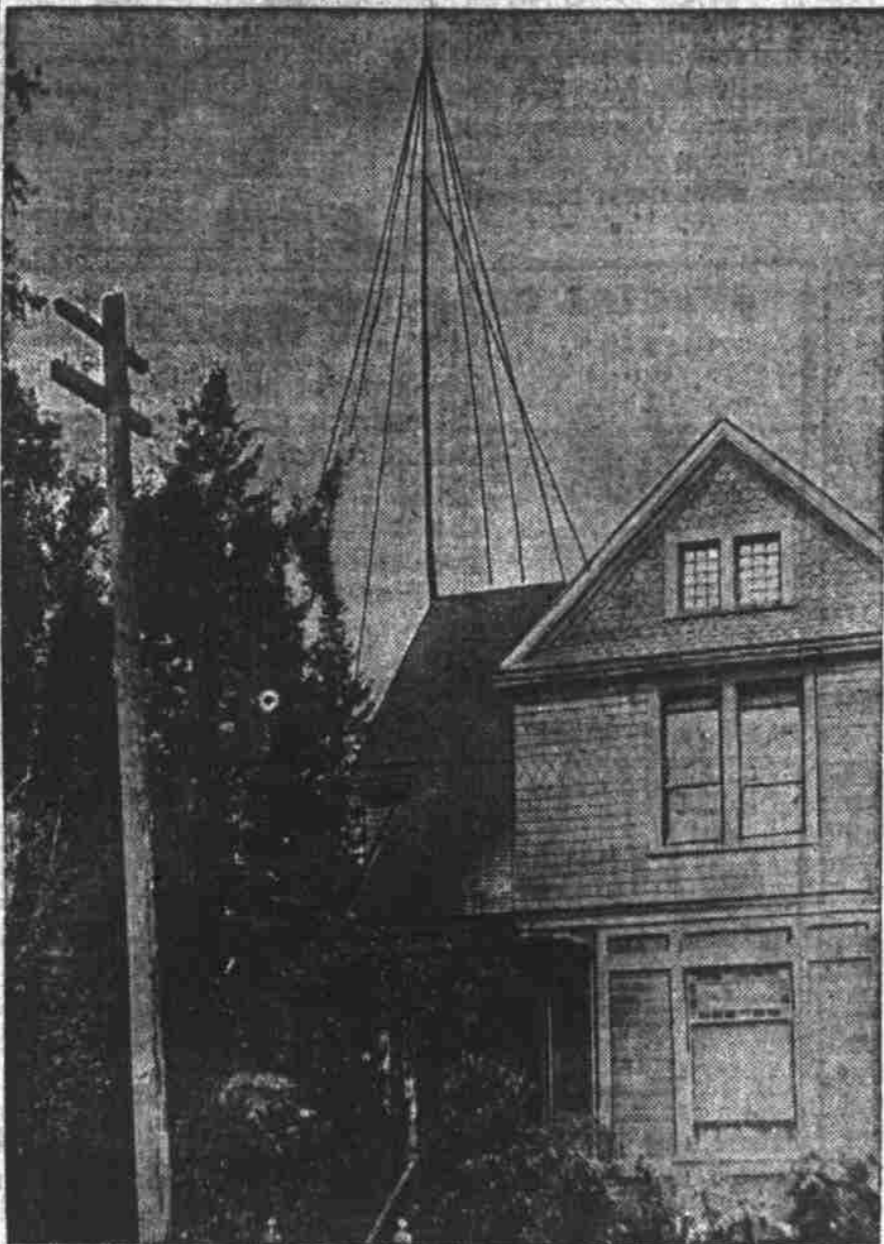
This practical young electrician has without the aid of any one constructed two complete wireless outfits with which he can send messages 25 miles. He receives calls from wireless stations all over the coast, but because he has as yet no reflector for his apparatus he has not held any conversation with other points.

The young inventor has both the wireless systems, the Macconi and DeForest, at his finger tips. He has made an exhaustive study of electricity and his command of the technical nomenclature is amazing for one so young. Every piece of mechanism that goes into the make-up of the delicate instrument is as familiar to him as the construction of a common jackknife is to the average boy of his age.

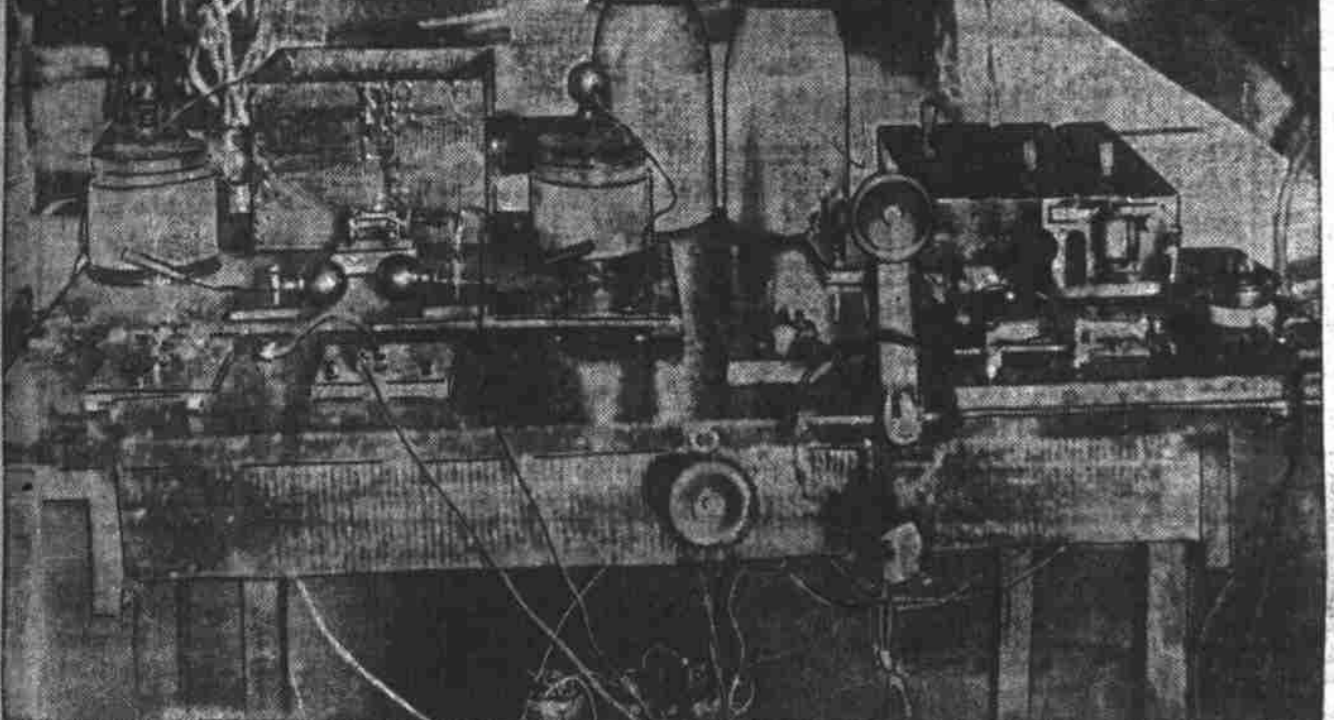
Makes Own Machinery.
Nearly all his spare time after school hours is devoted to the study of his machine. He made practically every bit of it with his own hands, only buying the bare material. On the induction coil alone he worked for three months until he had wound 10,000 feet of fine wire around a spindle to make his spark coils. He says the making of these coils is his specialty. In fact, he makes coils and sells them to obtain money with which to buy apparatus which he has no means of making himself.

The boy says he would not take \$2,500 for the experience he has had with the wireless apparatus. It would take perhaps that much to buy a set of instruments with the efficiency of his own if he had to purchase them on the market.

Uses Knobs From Bedstead.
To show how ingenious young Bristol is it is only necessary to say that he makes all his dry batteries from old



Wireless Telegraph Apparatus on Home of Claude Bristol, 254 Chapman.



Wireless Outfit Made by Boy With Which He Has Sent Messages Sixty Miles.

batteries discarded by automobile companies. These he picks up and recharges, making them as good as new. For spark knobs which produce the wave vibrations that take the wireless messages, he utilizes the brass tops of an old bedstead.

In explaining the working of his instruments to a reporter he showed how upon the size of the spark generated, depends the distance a message can be transmitted. His instrument will give a spark seven inches in length, but he has placed his spark knobs only a tenth of an inch apart. Telling why he did this he said:

"Now if you should throw a long thin ripple in the water it would not make as big a ripple as if you should throw a big fat one of the same weight. So I figure that a narrow spark will make more of a commotion in space than a long thin one."

"This coil, pointing to his induction coil, to which was connected a current of electricity from four Leyden jars and a dozen storage batteries, is capable of producing a voltage of 5,000. For this reason it is not a very safe thing to have around the house. That's why I keep it in the attic."

How He Began the Study.
Young Bristol then went on to explain other parts of his apparatus until

the reporter was bewildered by the array of technical terms that were marshaled out by the little electrician.

"How did you first become interested in the wireless?"

"I saw an article in the Scientific American several years ago about it when Marconi was making his preliminary experiments. I bought an electric bell for \$1 and then took it apart to see how it was made. Since then I have been experimenting with electricity during most of my leisure hours, and especially with wireless telegraphy. I have also delved into wireless telephony."

Has Talked 60 Miles.
The aerial wire for young Bristol's wireless is strung from a high pole which he put up on top of the family residence, helped only by a boy of his own age, who lives in that neighborhood. He said he has only 50 feet of aerial wire as yet, and owing to this fact can not send messages for any great distance. He hopes to have enough wire after awhile to send as far



Claude M. Bristol.

as San Francisco. He has exchanged calls with the steamer Rose City as far as 60 miles.

"I am at present working on a condenser and a reflector. When I finish these instruments I expect to be able to hold conversations with all the steamers plying up and down the coast. You see, without a condenser every electrical vibration in the air, and the air is full of them, is recorded by the receiver and as a result there is a confused jumble of wave lengths. Now when I have the condenser attached it will absorb all vibrations of a different wave length than the ones I want, and with the reflector I will be able to direct my messages in straighter lines. Thus when I have gotten into communication with another wireless machine I will be able to keep in touch with it and to receive and send a connected message."

Claude Bristol belongs to the Portland Progressive club, which is composed of about 40 boys, all of whom are much older than he. The object of the club is to promote interest in the study of wireless telegraphy. Several others of the boys have instruments but none of them have like Bristol, made their own apparatus.

Chester Austin, Leland James and Reginald Savage, all east side boys, have outfits of their own and are enthusiastic electricians. These boys sent a message to Portland Heights the day after the club members were glad to receive instruction from the pioneer of the club, Claude Bristol. They look upon him as a wizard in the craft.

FISHERMEN ASLEEP; LIFE SAVERS BUSY

(Special Dispatch to The Journal.)
Astoria, Or., May 23.—Albert Olson and Gustavus Buhakka, who were fishing for the Cooperative Packing company, had a very narrow escape from drowning at the mouth of the river yesterday. They were both asleep in their boat, which drifted down with the strong ebb tide, and when they awoke they were in the breakers near No. 1 buoy. They at once threw out their anchor, but it dragged and they were in great peril. The Cape Disappointment life-saving crew arrived and rescued the men and their boat and towed them back into the river. It took the life crew over three hours to tow the craft back to safety.

Fat Defeating Extraordinary



Margaret Knolly.

SLENDER Margaret Knolly, now, if you please, The fascinating leading lady of the Bijou, now more fascinating than ever, astonished all her friends on Broadway the other day by presenting to their admiring gaze a svelt and willowy form in place of the plump, not to say fat, outlines with which she gaily sailed away to new triumphs and foreign shores last January. After a good deal of diplomatic cross-examination from interested fat acquaintances the secret was cautiously whispered to a few dear friends, with the result that everybody knows it now. It was not exercise, nor fasting, nor sea air, nor worry about her new venture that had brought about this wonderful willowy change in the charming Margaret; no, none of these; nothing but a simple mixture which all good druggists are familiar with and can supply at small cost, to-wit: One half ounce Marmola, one half ounce Fluid Extract Cascara Aromatic, and three and one half ounces of Syrup Simplex. "Grown folks need a teaspoonful after meals and at bedtime," explained the now slender Margaret. "It is simply wonderful. It takes off the fat quickly, as much as a pound a day, and keeps it off. You can eat what you like, too. In that respect it is unlike anything of the kind I ever heard of, and besides it has another splendid feature—it is entirely harmless, and will not cause wrinkles. I think it is about as essential a toilet article for the woman who is fat and wants to get thinner as face powder. In order to get the best results, however, you should buy the Marmola in the original package and mix it in with the other two ingredients after you get home."

SAYS THOMPSON WILL GET WELL

Physician Declares Youth Is in No Danger of Relapsing Into Insanity.

(United Press Leased Wire.)
Tacoma, May 23.—That Chester Thompson has not only completely recovered his sanity, but that there is no danger of a relapse into his former mental state was the opinion expressed this morning by Dr. T. F. Smith, the third expert called by the petitioner.

This expression of opinion was brought out shortly before the witness was turned over to the state for cross-examination, after Mr. Shipley had led up to the crucial point by an adroit series of questions covering the doctor's examinations and observations of Chester at the former trial. Since then Dr. Smith has been a medical expert appointed to examine into Chester's sanity. This was one of the strongest points in the case for the petitioner's case, as his reason for believing Chester had become cured "to stay cured," the doctor gave the fact that his physical health has improved, gained over an inch in stature and 15 to 20 pounds in weight since his incarceration. Physically he now seems to be in perfect condition.

When a mental recovery, the doctor explained, is not accompanied by any noticeable improvement in the physical health of the sufferer, it is almost a foregone conclusion that he will be dropping back into the previous insane state. He had come to the conclusion that Chester Thompson's form of insanity was what is called adolescent, or juvenile insanity, a form which boys and girls are more or less subject to about the age of maturity, providing necessary contributing causes are present. In Chester's case the doctor stated that those causes had been present. A recess was taken at noon, and Smith will probably go on the stand for the greater part of the afternoon after court convenes.

THAW FULL OF SCOTCH WHISKEY

Pittsburgher's Dazed Condition While on Stand Attributed to Booze.

(United Press Leased Wire.)
Poughkeepsie, N. Y., May 23.—Scotch whiskey administered in good sized doses to Harry Thaw just before he took the stand in the recent habeas corpus proceedings brought to effect his release from Matteawan asylum is now held responsible for his poor showing as a witness in his own behalf.

Amos T. Baker, acting superintendent, is authority for the statement that large quantities of the whiskey were smuggled into the asylum and given to Thaw. It is learned from another source that the young Pittsburgher drank the drinks of the liquor a few minutes before he testified, and that his dazed condition at that time is now attributed to Scotch whiskey.

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