WIRELESS WONDER AGED 14 AMAZES SENATE COMMITTEE

Young W. E. D. Stokes, Jr., Glibly Discussed Radio-Activity and Modern Electricity in a Way That Made Staid Solons Wonder. gone up in it yet. PHOTOS C BY DNDETEWOOD

to go as far as it likes, all the wireless instruments will be gobbled up so you can't buy one by the time science has

time," he said, "before men will be able operators, he told of a boy who on visit- | Japan, England, Russia, and Germany to carry around with them in their auto- ing a wireless station some months ago mobiles or aeroplanes wireless telephone found a new operator packing up his tems. "The messages of the British Adoutfits. With these they should be able things to leave. The operator said there to talk to people having like instruments was something radically wrong with the within a radius of forty or fifty miles. station, which would have to be attended Miss Todd has planned to put a wireless to by an expert. The boy, went on young apparatus on her aeroplane, but she hasn't Stokes, located the trouble in a few minutes and set things going. It later "If the communication trust is allowed developed that he was the boy.

"About a month ago we heard about the bill that looked like it would result in monopolizing the air for professional wireless operators and companies," went on the boy, "and we decided we had beiter send a delegation down to Washington to argue before the Senate Committee on Commerce and Labor. George Eltz, Frank King Ernest Amey, and myself decided of the same up-to-date type, instead of the that we would go down. We left here on many different antiquated systems now Wednesday, and arranged for a hearing in use, most of which lack means of cuton Thursday.

from all over the country down there to as you can see from consulting the United

excel this country in their wireless sysmiralty sent on a uniform wave length and in a secret code cannot be made out by those for whom it is not intended," he

"The system of wireless on our battleships should be such that every ship could send 1.000 miles and receive 2,000 miles, and two or three special ships of each fleet should be able to send 2,000 miles and receive 4,000, so that no fleet of our Government would be out of range of Washington, in which city should be established the very best possible type of central station.

"Every ship should have an apparatus ting out interference, and which use wave "There were a lot of other amateurs lengths varying from 450 to 1,000 metres,

N. Leavers, 149 Clinton Street,

NE of the reasons why W. E. D. Stokes, Jr., the fourteen-year-old President of the Junior Wireless Club of America, Ltd., led a delegation of his organization down to Wash-

the Depew bill for the regulation of radio communication, was to take a hack at what he said was the "communication trust" of this country. His mission was considered a success by many of his elders, who ought to know. He is the youngest pleader that ever appeared before a Senate committee.

* He is at once the youngest orator who ever appeared before a Senate committee to argue on a bill, and undoubtedly the youngest self-confessed trust-buster in the world.

Some night soon, perhaps this week, the thirteen charter members of the Junior Wireless Club of America, Ltd., will get together in the Ansonia Hotel, Broadway and Seventy-third Street, and will there felicitate the organization, over a dinner, Yupon the first hack taken at what they call the "communication trust," and upon the prospects for their continued use of the air, of which it was the purpose of the "trust," through this bill, to deprive them, they declare.

W. E. D. Stokes, Jr.—celled Weddy, as his father was also called in his younger | day night, got out there before his elders days-rode back from Washington triumphant Friday afternoon, having just missed a dinner at the White House at the invitation of the President. At 9 the sixteenth floor of the Ansonia Hotel among a tangle of apparatus of all kinds. Stretched all the way across one end of the room was a blue Yale flag, toward which the young inventor inclines strongly. As Harvard got young Sidis, the mathematical and philosophical prodigy,

physical science. the wireless telegraphy and wireless telephone instruments. It was not toy machinery, but full-sized apparatus, with

for business purposes. ceeding familiarity with the instruments. the boy connected a wire here and there, what he could catch out of the air from | so he pursued it diligently. the members of his club, who have a other operators, so President Stokes says. "Oh, I suppose John did not get up the

new aerial while I was gone," ne explained to a friend who knew all about his wireless experiments. "I told him to take down the old aerial on the roof while I was gone and put up that better one, so that I wouldn't lose any You see, we got back going to the roof and looking after the thing when I came home to-night, but I

guess it would be a ticklish job up there to-night, with the wind going like it is. . "No, I guess we won't do anything tonight. But to-morrow I'll get the members on the wire, and we will have a talk about what happened down at Wash-

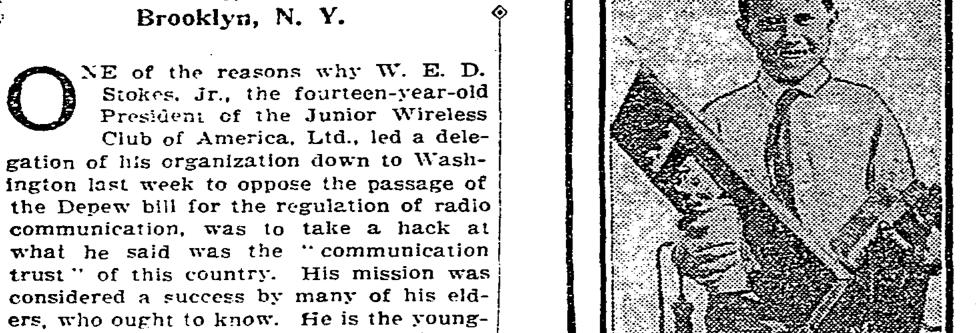
The youngster then began to unloosen his wireless connections for the night, pulling a rope here that swung a huge prong out of socket, turning a wheel there that broke a strong current of electricity. and delicately touching a fragile coil of wire at one end of the table.

. Hanging from the ceiling was a model of an airship, and stuck around in several parts of the room were various kinds of scientific kites, which formed the basis of the aeroplane idea. The room was brilliantly lighted with a half dozen different kinds of electric apparatus. Among them was one of the familiar devices which shows a little mill inside a vacuum turning from the effects of the light

Outside the window fluttered a big weather signal flag, to which the boy attends. This room is the club room and experimental station of the Junior Wireless Club, Ltd., of which Master Stokes is the founder and president. He is small for his age. He has black hair and quick, , alert black eyes, and talks with the grammatical correctness of a school teacher. But his restless activity, his jumping about from one place to another, his diff!culty in managing his hands unless he is at work or playing with something, his frankness and simplicity-all mark him out still essentially a boy, though he has progressed along electrical lines of investigation as far as many professors of

äphysics. He looks a good feal like his mother, who is now Mrs. Phislip Lydig. His father, who accompanied him to Washington, and who sympathizes with him in all his scientific endeavors, affording him costly apparatus and instruction when he needs it, is excessively proud of the boy, though he tries to make it appear a humorous thing that he should play with electricity

and harangue a Senate committee. Mr. Stokes occupies a large part of the sixteenth floor of the Ansonia Hotel, of which he is the proprietor. Through it there runs two or three long, winding halls. Strung along the sides of the first of these are innumerable gilt chairs of various designs, looking as if they had been picked up all over the world, and Dieces of ancient carved furniture of many kinds. The boy, hearing that the reporter had entered the outside hallway on Fri-



George Manley with Some of His Home Made Apparatus.

and had a few words by himself. "Well, what success did you have with

the Depew bill?" he was asked. "Oh, fine, we think," he answered, o'clock Friday night he was found in his restlessly playing with a string of elecworkroom at the southeastern corner of | tric light bulbs that lay on the floor. He didn't think they ought to be there, and so he hid them in a corner. "Well, what is the Senate committee

going to do about it?" he was asked. "We think they will veto the bill." Which shows that the youngster doesn't know nearly so much about Senate comso Yale will probably get this prodigy of mittees as he does about aerials, killowatt coils, and the like. Finally he leaped One side of the room was taken up with on a bicycle, which sat against the wall, and went racing through the winding hall-

After a while he was pinned down to all the appearance of having been made a talk about his wireless work and the expedition down to Washington. About With an ease and swiftness born of ex- four years ago, he went on, he became would be nice to organize a number of interested in electricity, which he en- us boys who had begun to experiment countered in the course of his regular | with wireless telegraphy, so that we could turned a few screws, and prepared to see studies. It attracted him powerfully, and arrange to talk to each other and help

wave length which enables them to talk other," he explained, "and I just natural- wave length, and that enables us to talk with one another without interfering with ly came on up to wireless telegraphy and to each other without interfering with telephony. That seemed to give me plenty anybody else, and without being interof room to work in. I have invented a fered with by others. good many electrical appliances. Patents i have been granted on five or six of them." and every one of them has apparatus of

third Street, the earliest woman to devote early in the night. 1 am the President. herself to heavier-than-air flying ma- George Eltz of 441 West Forty-seventh chines in this country, gave young Stokes | Street, is Vice President. Fatoute Munn. considerable instruction in his studies. out in East Orange, is Recording Secre-She is the Honorory President of the tary, and Frank King, up at 326 West ner man we expected, and I suppose Junior Wireless Club of America, Ltd., 107th Street, is Secretary, and Frederick by meetings of the club at the Ansonia made it possible for people to talk to one he didn't finish his work. I thought of land has an apparatus man her recommendation of the club at the Ansonia made it possible for people to talk to one with which she talks to the club mem-lis Treasurer.

> on the boy. "At first I put in small in- in the United States, and a great many ganization." struments of a simple sort, but I have of them are boys." many belonging to the professionals.

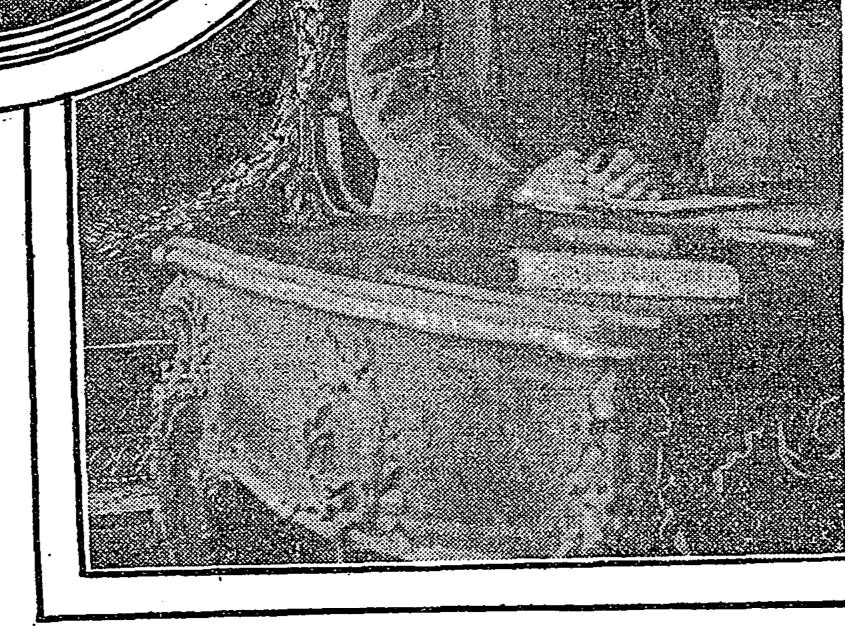
Ralph S. Bolton, 261 Stuyvesant Avenue, Brooklyn, a Wireless Worker.

> W. E. D. Stokes, Jr., the 14-year-old President of the Junior Wireless Club. (In picture above.)

one another along. You see we can fix "You see, one things leads up to an-jour instruments so that we get a unique

"There are thirteen charter members, Miss E. L. Todd of 121 West Twenty- his own. We usually talk to each other

think I have as complete a station as any there are twenty or thirty members of the thinks the most remarkable development had heard messages from Galveston, amateur in the country. It's as good as club who use the stations of friends, and in the science of electrical communication Texas, he declared. who have considerable electrical knowl- is to be along that line.



W.E.D STOKESJE

W. E. D. Stokes, Jr., at Home.

and has an apparatus near her rooms Seymour, who also lives in East Orange, and know the secrets of the organization another that way. There are certain fender. "Do you know, there are between 25,000 explained President Stokes, Friday night, can't be bought; they can only be rented." "I built my own station here," went and 40,000 amateur wireless experimenters "to be a full-fledged member of the or- The President of the Junior Wireless

"But a boy must have his own station," kinds of talking instruments now that Club, Ltd., said that with his wireless Master Stokes said that he could pick telegraphy instruments he could send mesreplaced these with bigger and better in- In addition to the thirteen charter mem- up messages twenty-five miles away with sages about 500 miles, and receive them States Customs House?" struments from time to time; and now I bers, who have apparatus of their own. his wireless telephone instruments. He from places about 1,000 miles away. He

Speaking about what he thought was

A Group of Wireless Operators Receiving Messages.

a good many representing the profession- 1909. als. The man who spoke just before I "Our Government should use a uniform did was over six feet tall. He was an wave length and a secret code for transamateur, too, and he thought that the mitting Government messages, and with bill would cut us out of the air, if we the proper kind of instruments, they obeyed the letter of the law.

army of wireless Government inspectors to inforce the law, and it would take a Bureau of Navigation, Department of whole lot of money. It would require the | Commerce and Labor, in a letter to us building all over the United States of a March 15, 1910, says that Admiral Sperry double system of wireless stations in every told him recently that he was in constant locality, so as to take the triangulation, communication with Washington in the to locate the offender. For a wireless round-the-world cruise until he got within aerial will be just as operative if strung | two or three days of the home shores. within a house (in the cellar, or any por- | We believe that the Admiral's wireless tion of the house) or along the eaves of operators did not represent things to him the house, as it will in the air.

as it is to conceal the operator. With the | quoted, states that the Connecticut had new methods of radio transmission, the lo- | on board at that time an instrument of cation of the operator could be absolutely the antiquated Shoemaker type, having concealed. There would be no noise, no only a 3 K. W. transformer. spark, to indicate his location. He might have a dozen aerials, a mile apart, which would only cost from \$2 to \$5 each, con- | could not, under the most favorable connected to some one locality, or a dozen localities, where the operator could be probably only about 400 miles on the concealed; and while the engineers were trying to locate one apparatus by triangl- ator could not possibly cut out interlation the offender could be operating an- | ference or work with equal efficiency other one a mile away, or two miles away. And it would require the co-operation of hours of the day or night, and at all several skilled raido engineers to locate each apparatus.

"To substantiate this statement, any of us would guarantee to prove that it would take at least a month for the Government aerial engineer detectives to discover our locality, for the engineering calculations would be so intricate it would take days to locate the exact position of the of-

lish a Detective Bureau of Wireless Police, operators are responsible for the trouble. which will be fully expensive, if not more A good operator with an up-to-date maexpensive, to carry on as the United chine can cut out interference and con-

Master Stokes thinks that the wireless system of telegraphy used by the United States battleships are inferior to that used by the other first-class nations.

argue against the bill as it now is, and States Government report of Oct. 1,

would have no complaint to make of in-"As a matter of fact, it would require an terference from private or public stations. "Mr. Chamberlain, Commissioner of the quite as they were. We know the of-"It is just as easy to conceal the aerial | ficial Government report, previously

> "Any expert will tell you that an instrument of only 3 K. W. transformer ditions send over 450 or 500 miles, more average. With this instrument an operunder all atmospheric conditions at all seasons of the year. Surely the operator misled the good Admiral as to the real cause of trouble in communicating. Why, to-day most all the ocean steamer messages are transferred or relayed from ship to ship within a radius of 500 miles

"We amateurs are blamed for much that we do not do. The cases where amateurs actually interfere are few and exaggerated. In many cases antiquated "Is our Government prepared to estab- apparatus and incompetent professional tinue his work.

"It has been said that many 'fake' messages have been sent to the fleet during its manoeuvres for the purpose of causing confusion in orders, and out of "A couple of years ago I thought it edge. They attend the weekly or month. "I don't think it will be a very long the affected superiority of adult wireless particular, he things that the navies of a wish to make trouble with Government operations. None of our members has ever caught any such messages, and believe such reports exaggerated. We have, however, heard "fake" messages sent out by some of the stations of these waterstock-jobbing so-called wireless companies. One time we interrupted a message purporting to come from the Eiffel Tower, Paris, France, which we now was sent out by one of the officers of a company from a station on Manhattan Island, for the purpose of making people believe the company had solved transatlantic communication."

> But when the boy President of the Junior Wireless Club of America, Ltd. talked like that, it was clear that he was repeating some of the matter from the speech prepared for Washington delivery? And he must have had considerable help on that, clever as he is.

W. E. D. Stokes, Sr., says he is going to let W. E. D. Stokes, Jr., go into whatever profession he likes. 'That hasn't been decided upon yet. The youngster is simply enjoying himself just now. His electrical things make the time go by fast, and he is clever enough and energetic enough to want constantly to improve on what instruments he has.

His statement that there are between 25,000 and 40,000 amateur wireless operators in this country is probably true, and among them there are a great many boys. New York City has a great many of them. Ralph S. Bolton of 261 Stuyvesant Avenue, Brooklyn, 16 years old, made most of the machinery with which he equipped his station. His call is B. W. through

E. Hyers, 18 years old, of 235 West 103d Street, has a station that is the equal of any commercial station in the city. He declares that he once heard an O. K. from Scotland on a wireless message sent from this country, after it had been relayed from ship to ship. His call is T. K. He is the master of three codes-the Morse, Continental, and Naval.

the air.

Brooklyn, which has a large group of young wireless operators, also claims Eric Leavers of 149 Clinton Street. He makes most of his own instruments and does all his wiring.

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