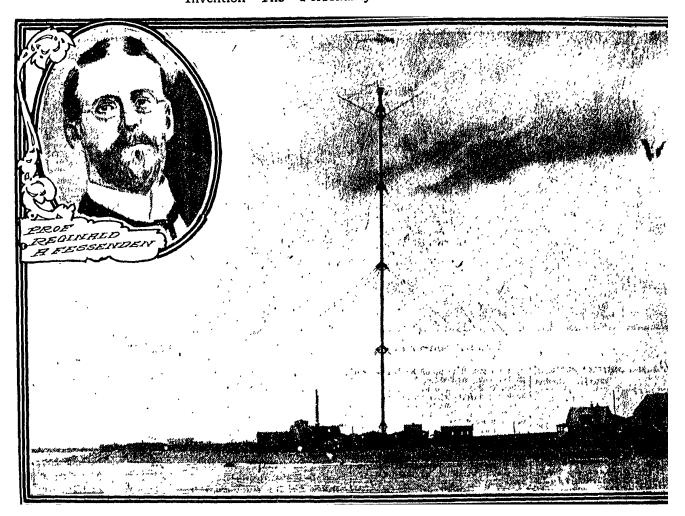
WIRELESS STATION AT BRANT ROCK HAS BEEN IN TOUCH WITH EGYPT.

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WIRELESS STATION AT BRANT ROCK HAS BEEN IN TOUCH WITH EGYPT.

Waves Sent Out from Great Mast on the Coast Near Duxbury Picked Up by a Station at Alexandria-System is the Invention of Prof Reginald A. Fessenden, Who Has Also Perfected a Long-Distance Wireless Telephone-Navy Has Been Experimenting with His Invention-The Personality of the Inventor.



THE WIRELESS STATION AT BRANT ROCK.

the casual visitor to Brant Rock, on the Massachusotts coast near Duxbury, hears the snap-snap-snap and sees the blue sparks of wireless apparatus in action at the top of a great steel mast tower 420 feet above the little cottage out of the bedroom window of which he is looking, he finds the time opportune for reflecting

on the worders of modern science.

This great mast and the machinery sheltered in various low, gray wooden buildings at its base are part of a marvejous mechanical unit which has developed Wireless telegraphy and wireless telephony to a point undreamed of a few years ago.

Messages by wireless from this sta-

HEN on awarm summer night | by women. These guys stretch over nearly 1000 feet at the base.

The mast is 420 feet tall, the tallest

wireless staff in the country. It is of steel, tubular, built section on section, like an elongated smokestrek. Its base is drawn in to a point, testing on a single pin, like a bridge truss.

At the top are four yatdarins, from which depended the antenne, or wires

which send out and rick up the waves. These lead off to a great distance on each side. On one hand they cross the roofs of several buildings; on the other their ends are anchored on the shore some way out from bigh water mark

Inquiries at the station meet with short, though courteous answers. The

were able to communicate constantly with the station at greater distances than have hitherto been attained by wireless, except perhaps occasionally under "freak" conditions.

Be that as it may, there are electricians familiar with the Brant Rock station and the general principles of

the Fessenden system of wireless telegraphy who believe it far outstrips any other system now in use and that by it various problems that were as a scaled book to other inventors have been solved by its originator.

solved by its originator.

Prof Fessenden, at a meeting of electrical engineers at Atlantic City in June-July, 1908, read a paper on his wireless telephoning system, in which he described tests that had been made at Brant Rock, first with Plymouth, 19

pat the wheless companies step by step. "No matter to what perfection the art of wheless tolegraphy is brought," says Prof Fessenden, "years will elapse and the exectse of a great deal of political influence will be necessary, before the public gets the advantage of cheaper

rutes."

Of the personality of the master mind behind the Brant Rock station the public gets only an occasional glimpse. For some months recently Pror Fessenden has been abroad. When at the Brant Rock station he is too much absorbed in his work to see many people. To those he does see he extends no confidences. He shums publicity.

Something about the man impresses all who see him that he is the sort to do big things. He is a murvel of energy, is big of body and bran—he stands about 6 feet 4 inches—and is in-

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tion have been picked up at a station in Alexandria, Egypt, 400 miles away. In the marvel of it to the annor visitor in this single phase; the thought from the sending brain there at Brant Rock A is flashed to the receiving brain in Egypt in an almost unmeasurable fraction of a minute-in a flashe so far as kit the layman may describe the period cocupied in its transmission.

Aside from the snapping of the spark at the top of the great mast, and its visibility at night, Brant Rock knows divisibility at might, Brant Rock knows divisibility at might divisibility at might divisible from more.

The 1

The backers of the enterprise are fighting not alone a great scientific, but a great commercial fight. They are doing it secretly, so far as the public is concerned. They take nobody into their

connermed. They take nobody into their confidence the visitor, who as a rule is rothing if not inquiring, the Brant Rock in station is a place of mystery. Signal varning all persons not to trespass, and threating visitors to the office, coupled altreating visitors to the office, coupled the vith the word demonstrations of the great tower at night, when the station is at work, increase this sense of mys-

The construction of the tower is also resource of interest, particularly to the a source of interest, particularly to the a mechanically inclined. It is like no many guys supporting it stand out like in the dots on a certain kind of yell woin the construction.

station is privately owned by a company incorporated under the laws of New Jorsey, the capital being supplied by Pittsburg millionaires. The originator of the enterprise is Prof Reginald A. Peasenden.

That is all. What is being done with the the station is not for the public to the station, and the station, have been can know. Cortain technical facts, particut to larly regarding wireless telephoning exercise the station, have been can communicated to the American institute will so felectrical engineers by Prof Fesson, the communicated to the Antentica with the statements that the the statements with distant countries, these papers contain the past whiter the U S mavy defence the statement, which in the past has been the partment, which in the past has been the partment, which in the past white we scout cruisfers, the Salem and the off Brentingham, to conduct a series of the statement of the cruisfers for the purpose, as the presention system does not work with purpose tests were carried out as ary other with sample. These tests were carried out as ary renged, the silps going across the Attention and the statement of the

distance operator to connect him with binthat city.

In that city.

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In that con miles away, and that Capt in that the area of the relation of the picked up at Alexan.

In the navy, when on route with the Paralla citie field around South America, picked up the difficulty in the practing commercially and with case profess the Alfantic," said the inventor, a life them explained the difficulties on
out archy life description makes the plain that they are combatted by vested the plain that they are combatted by rested to the plain that they are combatted by interests, of one sort or another, at a proper in the plain that they are combatted to a point of the plain that they are combatted to th

mites off, next with points on Long (et island and next with Vashington.

I fish volge, he said, is convoyed with it greated distinctness and finer gradation in of infactions by his wireless telephone if than by the system employing wires.

In prof Fessonden's paper convinces the reader that the day is not far off when in the convergence of the conference with the committee of the conference of the conference of the conference operator to connect him with it is not far or operator of connect him with it is not far on the conference operator to connect him with it is not far on the conference operator to connect him with it is not far of the conference operator to connect him with it is not far of the conference operator to connect him with it.

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