

NO MORE BUZZ IN 'PHONES.

PROF. PUPIN MAY ENABLE ONE TO TALK TO ENGLAND.

**New York Electrician's Invention De-
signed to Transmit Messages With-
out Interference Waves or Loss of
Current to Be Tested in Under-
ground Cable, as Well as by Long
Distance Lines from Omaha, St. Paul,
and Boston to Gotham.**

New York, Jan. 14.—[Special.]—With a view to making improvements in the present telephone system and to test the invention of Prof. Michael I. Pupin of Columbia, telephone companies with headquarters in this city established lines in accordance with Prof. Pupin's system, and already many satisfactory results have been determined. By placing coils wound on wire at regular intervals in the circuit Prof. Pupin found the current was transmitted without interference waves or loss of current.

To apply this discovery practically the New York Telephone company has installed an underground cable to Kingsbridge, N. Y., and the New Jersey company is experimenting with an underground line between this city and Elizabeth, and two lines on Long Island and the American Telephone and Telegraph company is testing an overhead Pupin line from Omaha, St. Paul, and Boston.

The first practical application was the laying of a cable to Kingsbridge, which the New York Telephone company has just completed at an expense of \$200,000. Some wires in use now have satisfactorily accomplished the results expected.

"The purpose of this Kingsbridge cable," said Chief Engineer J. J. Carty, "is to enable us to carry a long distance wire like the Chicago wire into the city underground. By the old system conversation over a long distance wire like that if carried underground for a distance of fifteen miles would be impossible. The final test is yet to be made, but so far the results have been satisfactory."

Prof. Pupin expects his new system will revolutionize the construction of telegraph cables and make possible telephone communication between this city and London.