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TELEPHONE 3923 MADISON SQ.

Intended for

Dr. Cahill  
"O wad some power the giftie gi'e us  
To see oursel's as ithers see us." II

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From

ENGINEERING NEWS

Address

New York City

Date

MAY 26 1910

A NEW "TELHARMONIUM."—The "Telharmonium," an invention for the production of music by imposing certain alternating currents on a "receiver," much like a telephone receiver, was described in Engineering News, Feb. 28, 1907, as installed at 39th St. and Broadway, New York City. The inventor, Dr. Thaddeus Cahill, of Holyoke, Mass., has now completed his third arrangement which is the largest "telharmonium" yet assembled. This is now described in the "Electrical World" for April 28. In the older system the more notes sounded on any one keyboard, the less loud each single note became.

This "robbing" has been prevented by a rearrangement of the electrical circuits to eliminate the effects of the reactions of the many circuits acting together on the receiver. A new receiver has been designed, having a diaphragm some ten times the diameter of a telephone receiver but only three times as thick. Due to the arrangement of the energizing magnets and of the air passages, a single receiver responds satisfactorily, it is claimed, to any sound from deepest bass to highest treble, to a single note of a pure tone or to a full chord of composite tones. The many generators are built of greatly increased capacity, especially in the high-frequency machines for producing the higher pitched notes. It was noted in the earlier article in Engineering News that the "voices" of various orchestral instruments could be reproduced. In the latest "telharmonium," with a number of switchboards and keyboards for several musicians, there has been possible an approach to orchestral tones and a departure from the limitation to organ or single instrument tones alone.