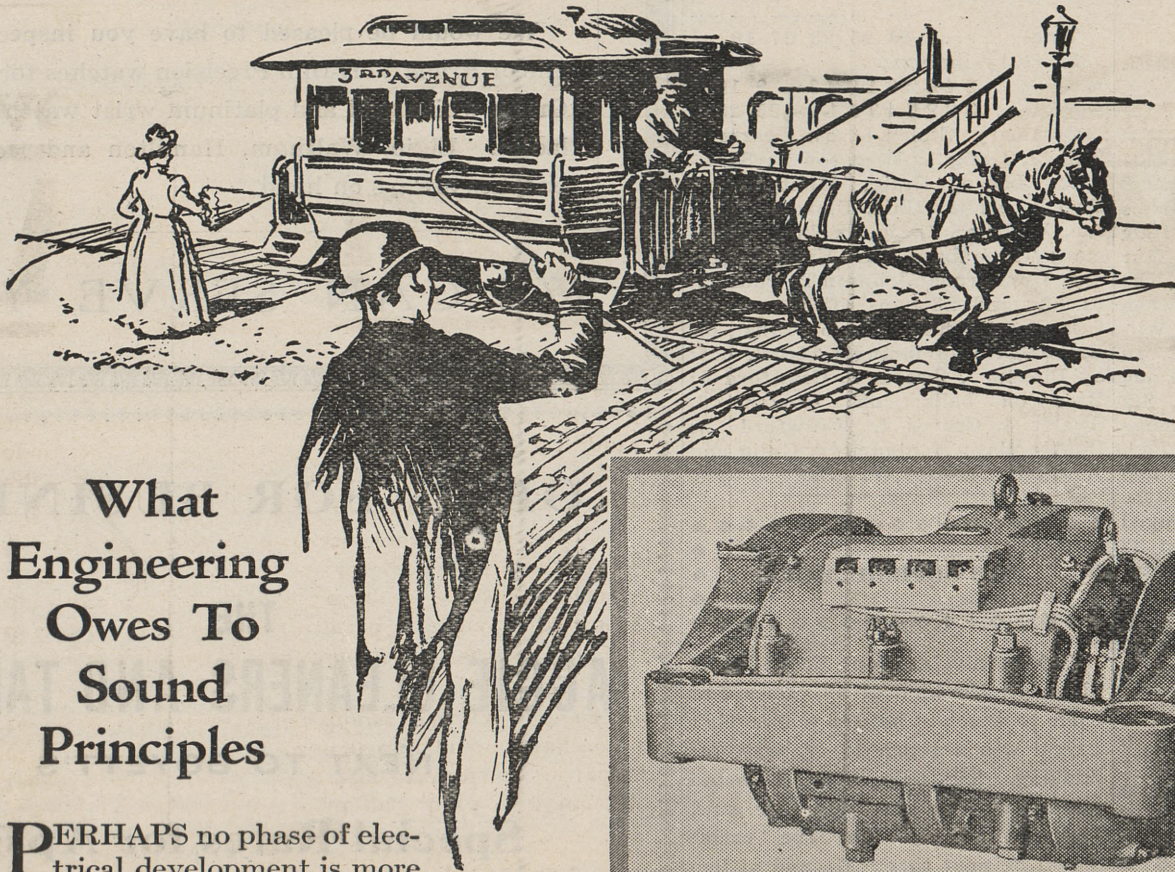


# Something Happened in 1891



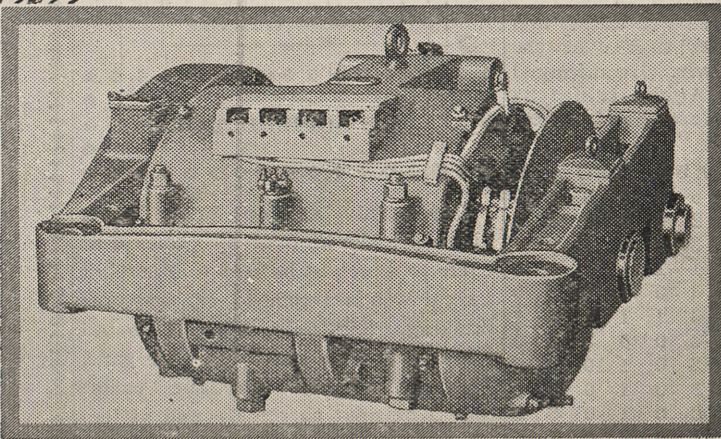
## What Engineering Owes To Sound Principles

PERHAPS no phase of electrical development is more fascinating than the events leading up to the practical use of electricity as the motive power for street railway transportation.

It is a story of "midnight oil", hard thinking, extreme perseverance. No better example of the value of sound principles to present day engineering could be cited than the Westinghouse No. 3 Motor, as introduced in 1891.

Its design was so fundamentally correct and the details were so soundly worked out that subsequent developments of railway motors all followed the principles embodied in it. Now let's see what bearing this has had on modern transportation.

In 1700 the first permanently fixed rails made their appearance. In 1831, in New York, horse cars began operation. In 1834, after fruitless attempts to apply steam, compressed air, gas, etc., to these cars, a Vermont blacksmith, one Thomas Davenport, sug-



*Westinghouse Motor, No. 3, the Progenitor of the Present Universally-Adopted D. C. Railway Motor.*

gested that electricity be used as the motive power.

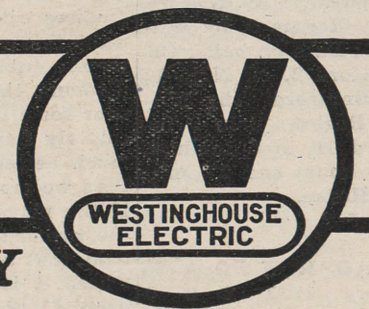
The very first practical commercial dynamo, built by Gramme, in 1862, made this suggestion a possibility.

It was natural that George Westinghouse, with his intense interest in transportation, should take up this problem. From 1889 to 1891, he, with his organization, worked continuously to perfect a commercially practicable railway motor, and the famous No. 3, daddy of all street railway motors, was the result.

As mentioned before, the principles embodied in the No. 3, thirty-two years ago, are still in use, and at least ten prominent features of this remarkable motor are to be found in present-day types. A number of these early motors are still in operation—a tribute to sound engineering principles.

# Westinghouse

## ACHIEVEMENT & OPPORTUNITY



### ANOTHER GREENVILLE BOY MAKES GOOD

Wilson N. Reedy was elected as chairman of the final ball committee. With the help of his chosen assistants, a well appointed dance is assured.

The Battalion staff of 1924-25 are

going to get some practice in several weeks. The Junior Edition of the Battalion is to be published with Jack Jinks as editor and Steve Noble as business manager. Coming just after the junior banquet, the Junior Battalion always stirs up ire among the sophomores. This year, we hope, it will prove no exception.

Circus Leader—"If that leopard gets out, shoot him on the spot."

Guard—"Which spot?"—Exchange.

He—And what sorority do you belong to?

She—I'm a Delta Delta Delta.

He—I heard you the first time.

### PLYING HIS TRADE.

Cop—What is your business?

Prisoner—I am a locksmith.

Cop—Well, what were you doing in that gambling house we just raided?

Prisoner—When you came in, I was making a bolt for the door.—Punch Bowl.