

(No Model.)

G. GRAY.
ELECTRIC CONDUCTOR.

No. 592,703.

Patented Oct. 26, 1897.

FIG. 1.

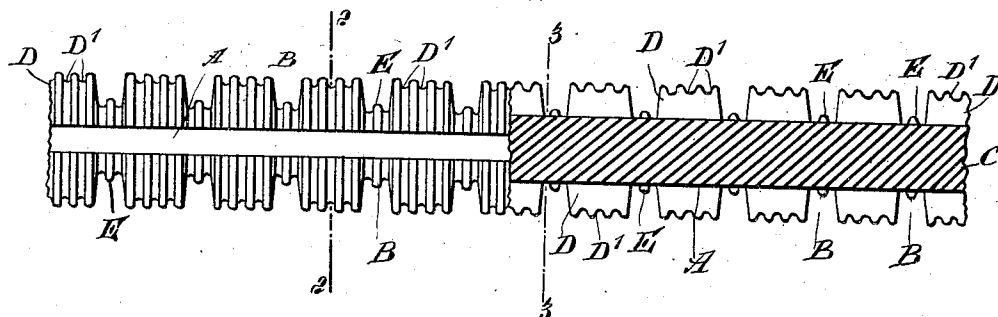


FIG. 2.

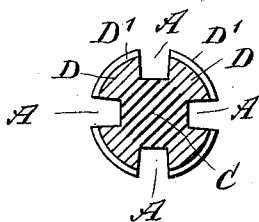
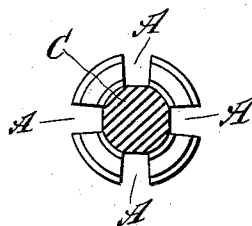


FIG. 3.



WITNESSES:

Dann Twitchell
Herb. Hovm.

INVENTOR

G. Gray.

BY

munif

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GORHAM GRAY, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO JOSEPH M. DOWNEY AND WILLIAM J. DOWNEY, OF HYDE PARK, MASSACHUSETTS.

ELECTRIC CONDUCTOR.

SPECIFICATION forming part of Letters Patent No. 592,703, dated October 26, 1897.

Application filed December 4, 1896. Serial No. 614,455. (No model.)

To all whom it may concern:

Be it known that I, GORHAM GRAY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Electric Conductors, of which the following is a full, clear, and exact description.

This invention will be fully described hereinafter and embodied in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal elevation of the conductor with part in section. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1, and Fig. 3 is a similar view of the same on the line 3 3 of Fig. 1.

The conductor is made of a piece of metal formed with a series of longitudinal grooves A and a series of transversely-extending grooves B, thus leaving a core C, of hard metal, and projections D, of softer metal, the said

projections being separated longitudinally by the grooves B and transversely by the longitudinal grooves A. The outer surfaces of the projections D are corrugated or formed with transverse grooves D', and the metal surrounding the core C between the adjacent sets of projections is formed with one or more ridges E, likewise extending transversely, as is plainly shown in the drawings.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

A conductor having a continuous core and an outer portion divided by longitudinally and annularly extending grooves, the core being of material harder than that of the outer portion, substantially as described.

GORHAM GRAY.

Witnesses:

HARRIETTE W. GRAY,
JOHN E. ABBOTT,
JOSEPH M. DOWNEY.