W. H. RODGERS.

Connector for Battery-Carbons.

No. 217,023. Patented July 1, 1879.

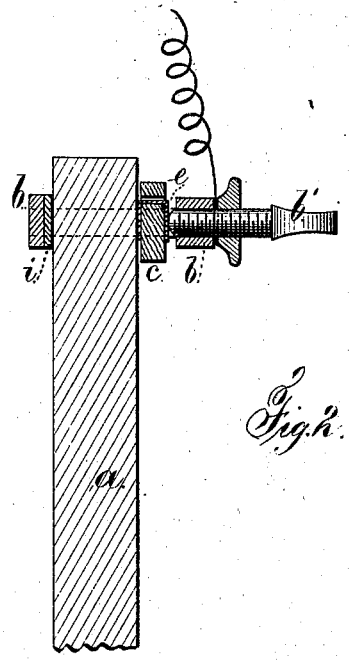
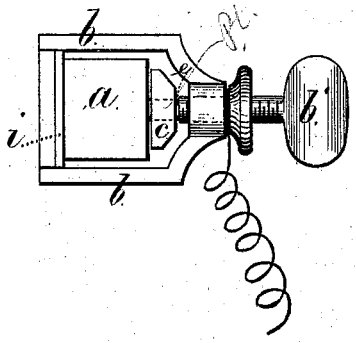


Fig. 2.

Fig. 1



Witnesses

Harold Serrell

G. T. Pinckney

Inventor

per William H. Rodgers

Samuel W. Serrell

Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. RODGERS, OF BROOKLYN, ASSIGNOR TO McLOUGHLIN BROTHERS, OF NEW YORK, N. Y.

IMPROVEMENT IN CONNECTORS FOR BATTERY-CARBONS.

Specification forming part of Letters Patent No. **217,023**, dated July 1, 1879; application filed March 29, 1879.

To all whom it may concern:

Be it known that I, WILLIAM H. RODGERS, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Clamp-Conductors for Galvanic Batteries, of which the following is a specification.

Difficulty has heretofore been experienced in connecting the carbon poles of the galvanic battery in such a manner that there is no interruption to the current from imperfect contact with the carbon.

My invention relates to the combination, with a carbon pole of a battery and a yoke and screw, of an amalgam introduced between the carbon and the yoke, whereby an intimate contact between the clamp-conductor and the carbon is insured.

In the drawings, Figure 1 is a plan of the conductor and carbon, and Fig. 2 is a section of the same.

The carbon *a* is of any usual size or shape. *b* is a yoke-piece or stirrup, that is large enough to receive the end of the carbon within it; and there is a clamping-screw, *b'*, to apply the pressure to the carbon. Parts substantially like these, so far as described, have been used.

Between the clamping-screw and the carbon I introduce a block of wood, *c*, or similar slightly-yielding material, and the strip of platina-foil or other similar material, *e*, which passes through a hole in *c*, so that one end of the strip is between the block and the carbon pole, and is pressed firmly thereto by the screw *b'*; and the screw also acts upon the other part of said platina that is between the wooden block *c* and the end of the screw *b'*. Thereby the most intimate contact is maintained by the pressure between the platina strip and the carbon, and by the clamp-screw upon the said platina strip, and the block of wood intervening is sufficiently elastic to prevent risk of breaking the carbon.

I also employ an amalgam between the yoke-clamp and the carbon, such amalgam being preferably of mercury, upon a piece of German silver, soldered at *i* to the inner face of the clamp, so as to press firmly upon the carbon by the action of the screw.

The amalgam enters the pores of the surface of the carbon, and renders the contact of the clamp with the carbon very intimate.

I claim as my invention—

In combination with the carbon pole of the battery and the yoke and screw, an amalgam introduced between the carbon and the yoke, for the purposes and as set forth.

Signed by me this 14th day of March, A. D. 1879.

WILLIAM H. RODGERS.

Witnesses:

JEROME B. SHAW,

GEO. T. PINCKNEY.