

UNITED STATES PATENT OFFICE.

HENRY S. RHEINER, OF CAMDEN, NEW JERSEY, ASSIGNOR OF ONE-HALF
TO DAVID K. JOSLIN, OF SAME PLACE.

ELECTRIC-LIGHT CARBON.

SPECIFICATION forming part of Letters Patent No. 397,754, dated February 12, 1889.

Application filed December 10, 1888. Serial No. 293,173. (No specimens.)

To all whom it may concern:

Be it known that I, HENRY S. RHEINER, a citizen of the United States, residing in the city and county of Camden, State of New Jersey, have invented a new and useful Improvement in Carbon Electrodes, which improvement is fully set forth in the following specification.

My invention consists in forming a carbon electrode of carbonized cocoanut-shell and marl with a suitable binding or adhesive substance, whereby a superior article is produced.

In carrying out my invention I employ cocoanut-shell, marl, and glucose. The cocoanut-shell is stripped of its fibrous covering and thoroughly cleansed, after which it is placed in a crucible or furnace, so as to be carbonized, after which it is ground to fine powder. The marl is purified, so as to be as free as possible of sand, gravel, or other foreign matters, and likewise placed in a crucible or furnace and carbonized. A quantity of the carbonized cocoanut-shell, say fifteen parts, and another quantity of carbonized marl, say five parts, are then thoroughly mixed, and the same has added to it a quantity of glucose, say three parts, forming a stiff plastic mass. Instead of glucose I may take any other suitable adhesive substance. The mass is now

heated and placed in heated molds and subjected to considerable pressure, after which the molds are allowed to cool and the molded shapes removed therefrom and placed side by side on a slab and introduced into a furnace or oven, where they are subjected to baking or recarbonization, the glucose being carbonized with the cocoanut-shell and marl.

It will be seen that the electrodes as produced are of superior nature. They are less expensive than those heretofore made and possess good bodies. The points burn for a greater length of time without affecting the lighting-power, the light being improved, the arc made more steady, and the points are prevented from flaming and rapid consumption.

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

1. In a carbon electrode, the combination of carbonized cocoanut-shell and marl, substantially as described.

2. A carbon electrode composed of carbonized cocoanut-shell, marl, and an adhesive material, substantially as described.

HENRY S. RHEINER.

Witnesses:

JOHN A. WIEDERSHEIM,
JAMES F. KELLY.