

(No Model.)

C. L. COFFIN.
COMMUTATOR BRUSH.

No. 475,668.

Patented May 24, 1892.

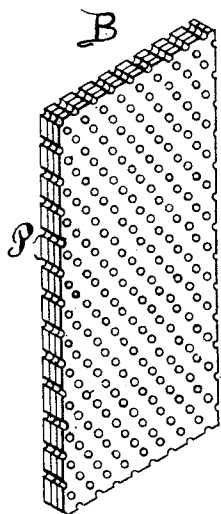


Fig. 2

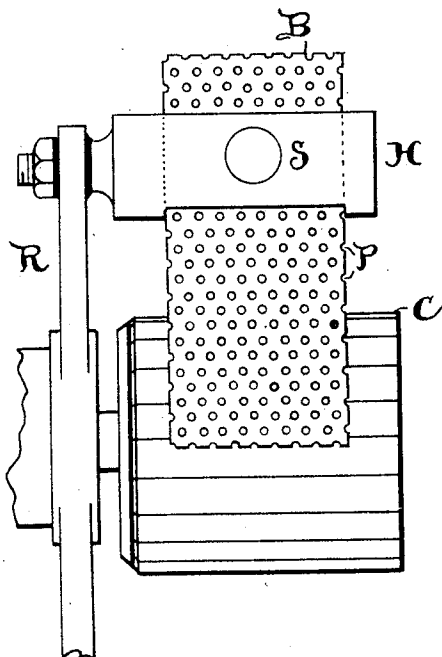


Fig. 1

Witness

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UNITED STATES PATENT OFFICE.

CHARLES L. COFFIN, OF DETROIT, MICHIGAN.

COMMUTATOR-BRUSH.

SPECIFICATION forming part of Letters Patent No. 475,668, dated May 24, 1892

Application filed September 5, 1891. Serial No. 404,844. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. COFFIN, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Commutator-Brushes, of which
5 the following is a specification.

My invention consists in an improvement in commutator-brushes for dynamos or electric motors hereinafter fully described and
10 claimed.

Figure 1 is a plan view of a commutator, showing one brush and a portion of the brush-holding mechanism; and Fig. 2 is a detail perspective view of a brush embodying my invention.
15

C represents the commutator of a dynamo or motor; R, the rocker-arm which carries the brush-holders, one of which is shown at H; and S represents a set-screw, which clamps the
20 brush in the holder H. All of these parts are old and well known and form no part of my invention.

B represents my improved brush, consist-

ing of a thin sheet of metal, preferably copper, perforated as shown at P. The perfora- 25
tions P are preferably staggered, as shown, as this causes the end of the brush to wear better; but they may of course be in regular lines. The perforations P permit the access
of air to the interior of the brush and prevent
30 the overheating, which is such a great defect in brushes as ordinarily made.

In practice each brush will be made up of a number of thin perforated strips, as shown
in Fig. 2. 35

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A commutator-brush consisting of a strip of perforated sheet metal.
2. A commutator-brush consisting of strips 40
of perforated sheet metal.

CHARLES L. COFFIN.

Witnesses:

HENRY B. LOTHROP,
GEO. H. LOTHROP.