

(No Model.)

R. KERSBERG.
COMMUTATOR BRUSH.

No. 519,188.

Patented May 1, 1894.

Fig. 1.

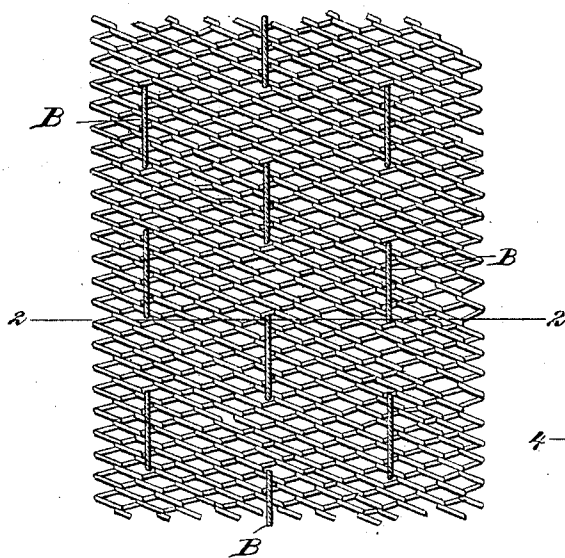


Fig. 3.

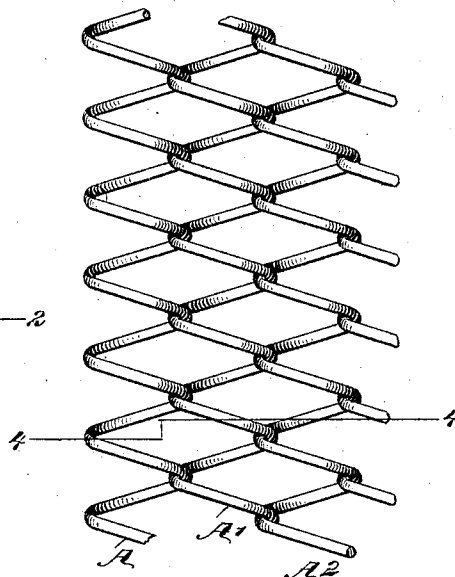


Fig. 2.

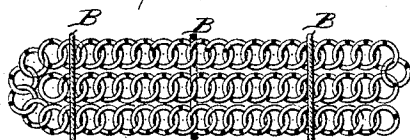


Fig. 4.

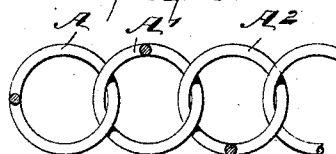
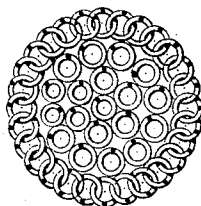


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

RUDOLF KERSBERG, OF HOHENLIMBURG, GERMANY.

COMMUTATOR-BRUSH.

SPECIFICATION forming part of Letters Patent No. 519,188, dated May 1, 1894.

Application filed January 8, 1894. Serial No. 496,070. (No model.)

To all whom it may concern:

Be it known that I, RUDOLF KERSBERG, a subject of the King of Prussia, Emperor of Germany, residing at Hohenlimburg, Province of Westphalia, Kingdom of Prussia, and Empire of Germany, have invented a new and Improved Commutator-Brush, of which the following is a full, clear, and exact description.

10 The object of the invention is to provide a new and improved commutator brush for dynamo machines, which is simple and durable in construction, very effective in operation, and arranged in such a manner as to prevent
15 the dust arising from the contact of the brush with the commutator, from settling in or adhering to the parts forming the brush.

The invention consists principally of a single ply or multiple ply metallic cloth or fabric, formed of wire spirals screwing one in the other.

The invention also consists of certain parts and details, and combinations of the same, as will be fully described hereinafter and then
25 pointed out in the claims.

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

30 Figure 1 is a face view of the improvement. Fig. 2 is a plan view of the same. Fig. 3 is an enlarged side elevation of three united wire spirals. Fig. 4 is a plan view of the same; and Fig. 5 is a plan view of a modified
35 form of the improvement.

The improved commutator brush consists principally of a metallic cloth or fabric formed of a series of wire spirals A, A', A², screwing one in the other, as is plainly shown in Figs.
40 3 and 4, so as to unite the spirals one with

the other to form a fabric of any desired length and width. The fabric thus formed may be doubled or trebled, as illustrated in Figs. 1 and 2, so as to form a multiple ply fabric, the several plies being united with
45 each other by threads, stitching, or other suitable means B, as indicated in the said Figs. 1 and 2.

If desired the metallic fabric or cloth formed may have its ends united so as to form a metallic tube in which are placed loosely single wire spirals without being united, so that the said tube incloses the single disconnected wire spirals as shown in Fig. 5.

It will be seen that a commutator brush
55 constructed in the manner described, will not permit any dust arising from the contact of the brush with the commutator to settle in the meshes of the fabric, and consequently the commutator brush is not liable to clog
60 and will at all times be of service.

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

1. A commutator brush formed of a metallic cloth or fabric composed of wire spirals screwing one in the other, substantially as
65 shown and described.

2. A commutator brush comprising a metallic cloth or fabric formed of wire spirals screwing one in the other, and single wire spirals inclosed in the said fabric, substantially as shown and described.

In testimony whereof I have signed this specification in the presence of two subscribing
75 witnesses.

RUDOLF KERSBERG.

Witnesses:

A. STRAUSS,
WM. ESSENWEIN.