

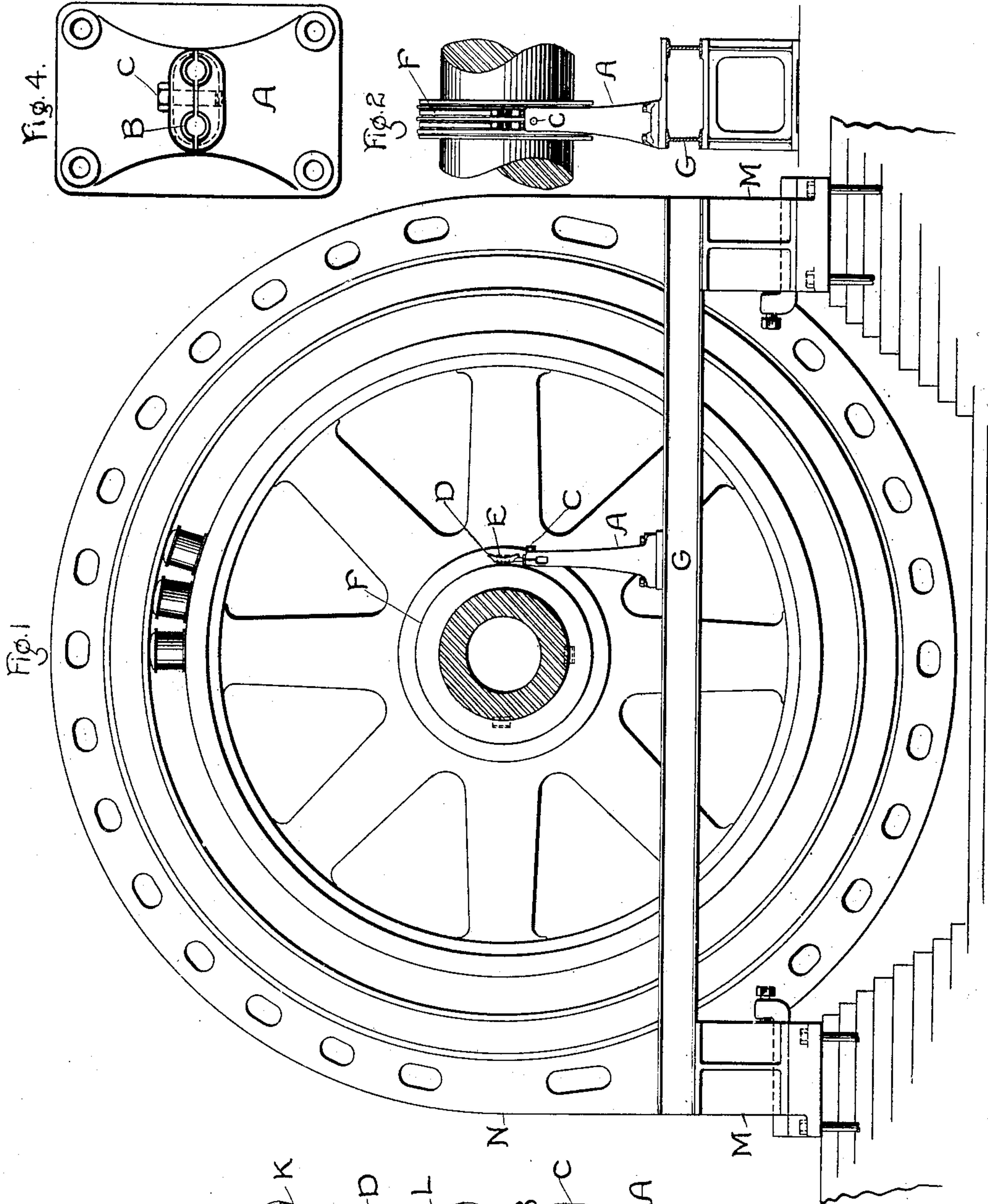
No. 661,228.

Patented Nov. 6, 1900.

H. G. REIST.
ADJUSTING BRUSH HOLDERS.

(Application filed Mar. 22, 1900.)

(No Model.)



Witnesses:
Fred G. Karing

Alex F. Macdonald

Inventor:
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by *Albert B. Davis*
Att'y.

UNITED STATES PATENT OFFICE.

HENRY G. REIST, OF SCHENECTADY, NEW YORK, ASSIGNOR TO THE
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ADJUSTING BRUSH-HOLDERS.

SPECIFICATION forming part of Letters Patent No. 661,228, dated November 6, 1900.

Application filed March 22, 1900. Serial No. 9,666. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. REIST, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements for Adjusting Brush-Holders, (Case No. 1,394,) of which the following is a specification.

This invention relates to means for adjustably supporting brush-holders for electric machines.

Figure 1 is a side elevation of a machine to which my invention is applied. Fig. 2 is a detail in elevation. Fig. 3 is a detail in elevation and partly in section, and Fig. 4 is a plan of the brush-holder support.

This invention is especially adapted to be applied to electric machines, such as generators of the rotating-field type with external stationary armatures, but is not considered to be limited in application thereto. Hitherto in this type of machine it has been customary to mount the brush-holder in a hook-shaped support which extended over the collector-ring. With this construction the brush-holder could not be adjusted vertically with respect to the collector of the machine, nor could a brush-holder support be used for any other machine than that for which it was constructed. In a support constructed in accordance with my invention the brush-holder can be adjusted to any desired extent with respect to the collector of a machine, and also for this reason the support may be used with machines of different sizes and with machines of the same size in locations where there are different distances between the collector and the base on which the support would naturally be mounted.

In the drawings, A represents the brush-holder support, which has tubular apertures for the reception of a shank H of a brush-holder D, which carries the brushes E, the latter engaging with the collector F of the machine. A bushing B of a yieldable material, such as rubber, and provided with a shoulder I is fitted within the tubular portion of the support A, with the shoulder resting upon the upper end of the support. The support A is split, as shown in Fig. 4, and is adapted to receive a bolt C, which when the

shank H of the brush-holder has been inserted within the rubber bushing B in the support A is tightened to clamp the brush-holder securely in the desired position with respect to the collector F. A flexible conductor J is connected to the shank H of the brush-holder within the support A. A flexible conductor K connects the brush electrically with the holder, and a pressing-lever L is constantly held against the brush, usually by an interior coiled spring to force the brush against the collector of the machine. The support A is mounted, as shown, upon a floor I, beam G, or other suitable base independent of the machine. The foundation-blocks M are supported upon masonry, and the frame N is mounted on the blocks M.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. Means for adjusting the brush-holders of electric machines, which comprises a split tubular support adapted to receive the brush-holder, and means for clamping the split portions together about the holder.

2. Means for adjusting the brush-holders of electric machines, which comprises a split tubular support adapted to receive the shank of the brush-holder, and a bolt for clamping the split portions about the shank.

3. Means for adjusting the brush-holders of electric machines, which comprises a tubular support, a yieldable hollow bushing therefor, adapted to receive a brush-holder, and means for clamping the bushing about the brush-holder.

4. Means for adjusting the brush-holders of electric machines which comprises a tubular support, a yieldable hollow bushing therefor, having a shoulder resting on the end of the support, and means for clamping the bushing about the brush-holder which it is adapted to receive.

5. Means for adjusting the brush-holders of electric machines, which comprises a split tubular support, a rubber bushing therefor, adapted to receive a brush-holder, and a bolt for clamping the split portions about the bushing surrounding the brush-holder.

6. In combination, a tubular support, a brush-holder therein, a flexible conductor secured to the holder inside the support, and

means for retaining the holder at different positions in said support.

7. An electric machine, in combination with a brush-holder in operative relation with respect to its collector, and a vertical support mounted independently of the machine on which support said brush-holder is adjustably mounted.

8. In an electric machine, the combination with the collector, of a brush-holder in operative relation thereto, and a hollow split support in which said holder is adjustably mounted.

9. In an electric machine, the combination with a collector, of a support mounted inde-

pendently of the machine, and a brush-holder in operative relation with respect to the collector and adjustably mounted in said support.

10. The combination with an electric machine, of a support mounted independently thereof, and a brush-holder carried by said support and adjustable therein.

In witness whereof I have hereunto set my hand this 20th day of March, 1900.

HENRY G. REIST.

Witnesses:

BENJAMIN B. HULL,
MABEL E. JACOBSON.