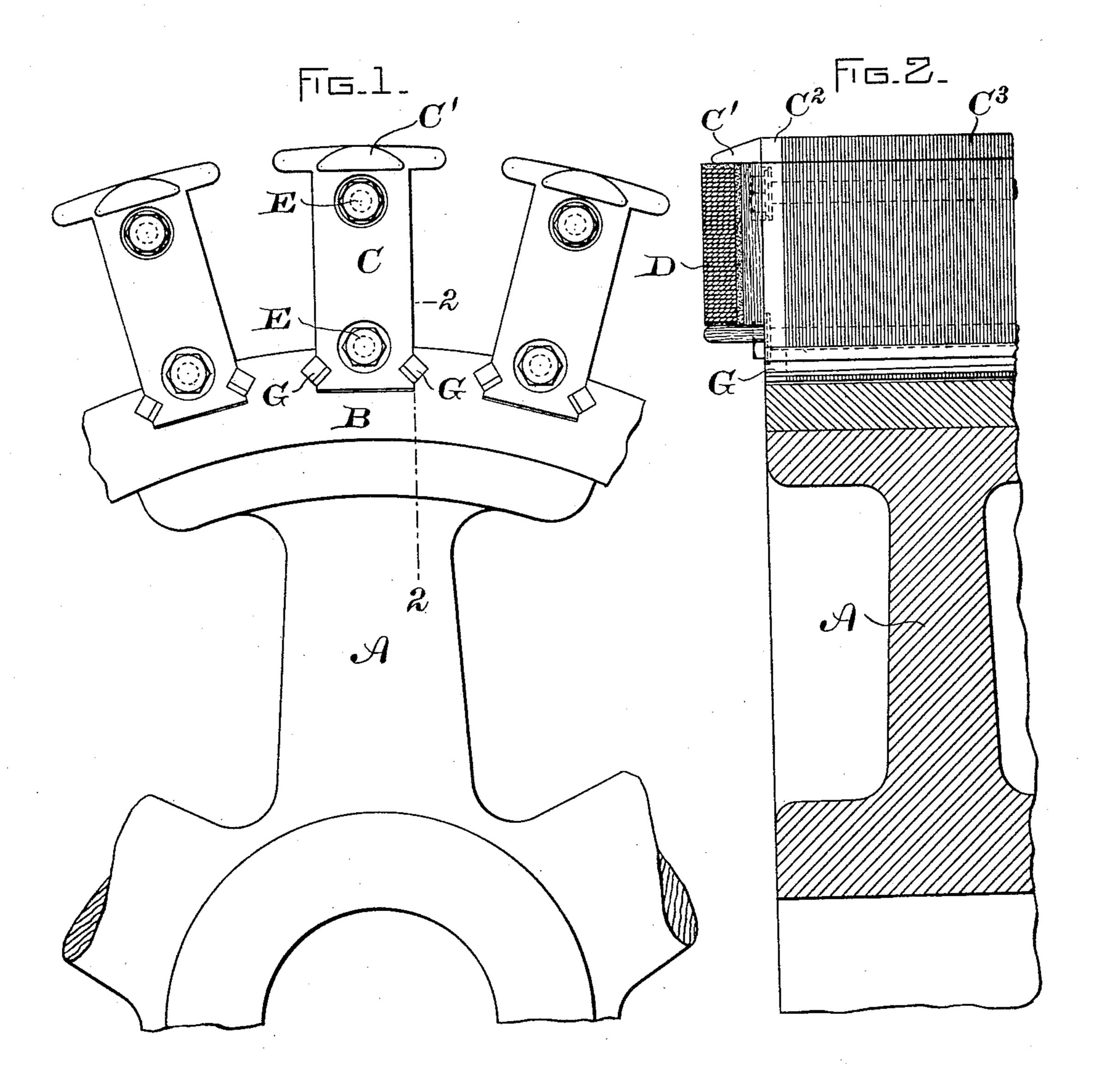
(No Model.)

## F. O. BLACKWELL. ATTACHING FIELD MAGNET POLES.

No. 573,130.

Patented Dec. 15, 1896.



WITNESSES. askabell, Braker, Francis O. Blackwell, les. Ro. Polodgett, Otti.

## United States Patent Office.

FRANCIS O. BLACKWELL, OF SCHENECTADY, NEW YORK, ASSIGNOR TO THE GENERAL ELECTRIC COMPANY, OF NEW YORK.

## ATTACHING FIELD-MAGNET POLES.

SPECIFICATION forming part of Letters Patent No. 573,130, dated December 15, 1896.

Application filed August 24, 1896. Serial No. 603, 702. (No model.)

To all whom it may concern:

Be it known that I, Francis O. Black-Well, a citizen of the United States, residing at Schenectady, in the county of Schenectady, 5 State of New York, have invented certain new and useful Improvements in Attaching Field-Magnet Poles, (Case No. 427,) of which the following is a specification.

My invention relates to attaching pole-10 pieces of dynamo-electric machines to revolving field-magnet structures, and has for its object to provide a simple, cheap, and effective means for accomplishing this purpose.

My invention is illustrated in the accom-

15 panying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 a section upon the line 2 2 of Fig. 1, of an embodiment of my invention.

A is the spider or supporting structure.

B is the surrounding ring, which may be solid or laminated.

C Care the field-magnet pole-pieces. Each of these is composed of a body of laminations C³ and end plates C², provided with over15 hanging flanges C' for retaining the field-magnet coils D in place. The pole-pieces are assembled as solid structures by bolts E E, passing through the laminæ and the end plates and holding them together. Register16 ing notches are provided in the revolving field-magnet structure and pole-pieces, in which keys G G are inserted. The form of these notches might be indefinitely varied, provided they accomplish the object of secur-

ing the parts together by coöperating with a 35 key or similar device. The arrangement, as will be seen, affords a secure construction, which permits the sidewise removal of the pole-pieces without removing the field-magnet from its position.

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

1. The combination with a revoluble field-magnet structure, of laminated pole-pieces separated from each other and arranged and 45 located in sockets on the periphery of said revoluble structure, registering notches in the lower end of said pole-pieces in said sockets, and keys located in said registering notches securing the pole-pieces to the periphery of said revoluble structure, as set forth.

2. The combination with a revoluble field-magnet structure, having sockets in its periphery, of pole-pieces separated from each 55 other and seated in said sockets, said pole-pieces being formed of a bundle of laminated and outside plates bolted together, and registering notches in said sockets and in the inner ends of said pole-pieces, and keys located 60 in said registering notches and securing the parts together, as set forth.

In witness whereof I have hereunto set my hand this 21st day of August, 1896.

FRANCIS O. BLACKWELL.

Witnesses:

E. W. CADY,

A. L. MACDONALD.