

No. 649,574.

Patented May 15, 1900.

J. A. FOSHAG.

SPACING RIB OR BLOCK FOR ARMATURE CORES.

(Application filed Dec. 21, 1899.)

(No Model.)

FIG. 1.

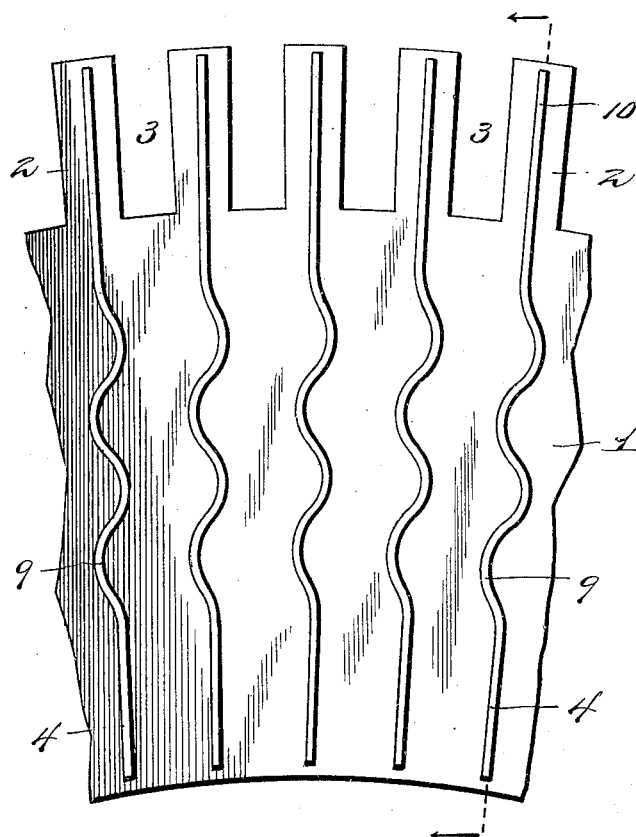


FIG. 2.

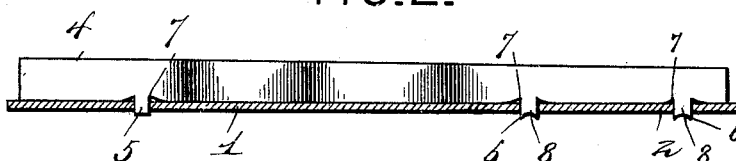
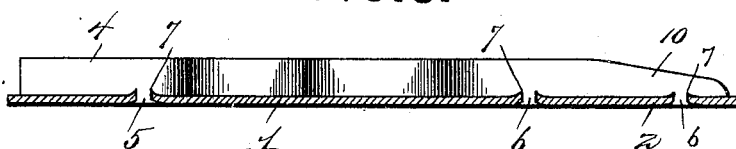


FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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SPACING RIB OR BLOCK FOR ARMATURE-CORES.

SPECIFICATION forming part of Letters Patent No. 649,574, dated May 15, 1900.

Application filed December 21, 1899. Serial No. 741,200. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. FOSHAG, a citizen of the United States, residing at Schenectady, in the county of Schenectady and State

of New York, have invented a certain new and useful Spacing Rib or Block for Armature-Cores, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to spacing ribs or blocks for armature-cores.

The object of the invention is to provide means for spacing between sections in armature-cores of dynamo-electric machines built up of bundles of laminae or thin plates.

In the drawings forming part of this specification, Figure 1 is an elevation of a segment of one of the sections or bundles of laminae. Fig. 2 is a section of one of the laminations or plates, showing the spacing-rib in elevation ready to be riveted to the plate. Fig. 3 is a similar view showing the parts riveted together.

Similar numerals indicate corresponding parts in the several views.

1 is an outer lamination or plate of a bundle, having the usual teeth 2 and provided with slots or openings 3.

According to my invention the spacing rib or flange 4 is formed of a narrow band of plate metal, with lugs 5 6 projecting laterally from one edge, the metal of the band being notched or cut deeper next the base of the lug than the general plane of the edge, as shown at 7. The projections may be simple lugs, as shown at 5; but by preference I notch the extremities of the lug, as shown at 8, to facilitate the operation of riveting or clenching the lug to the plate.

In the process of punching or cutting the disks to produce the teeth there is a tendency to bend or buckle the plate of the teeth out of a true plane. It is therefore important to rivet the ribs to the teeth as well as to the body of the disk. By doing this the teeth are braced and stiffened, so as to stand great resistance in assembling and holding the plates in contact with each other. By this construc-

tion of spacing-rib and lug I am enabled to rivet the ribs, plate, and teeth together and preserve a perfectly-plane surface on one side of the plate, the thickness of the metal thereof being accommodated by the notches or cuts shown at 7. While straight ribs will serve their purpose fairly well, I prefer to corrugate or bend the intermediate parts of these ribs, as shown at 9, for greater strength and to afford a convenient means for adjusting and holding the ribs in planes at right angles with that of the plate.

The spacer to be introduced between the end ring and the armature-arm is beveled or tapered, as shown at 10 in Fig. 3. Those between the bundles of laminae will be of the same width throughout, as shown in Fig. 2. For large disks the spacer should be made tapering from rear to front, as shown in Fig. 2.

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

1. A spacing or separating rib for attachment to one of the laminations of an armature-core, consisting of a narrow band of plate metal with lugs projecting from one edge of the band, the band being notched or cut away next the base of the lug, substantially as described.

2. A spacing or separating rib for attachment to one of the laminations of an armature-core, consisting of a narrow band of plate metal with lugs notched at their extremities projecting from one edge of the band, the band being notched or cut away next the base of the lug, substantially as described.

3. The combination with one of the laminations of an armature-core, of ribs provided with corrugations or bends between their extremities having laterally-projecting lugs for securing them to the plate, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN A. FOSHAG.

Witnesses:

JAMES YELVERTON,
GEO. C. MOON.