

(No Model.)

O. DUFAULT.
ARMATURE CONNECTION FOR DYNAMOS.

No. 514,817.

Patented Feb. 13, 1894.

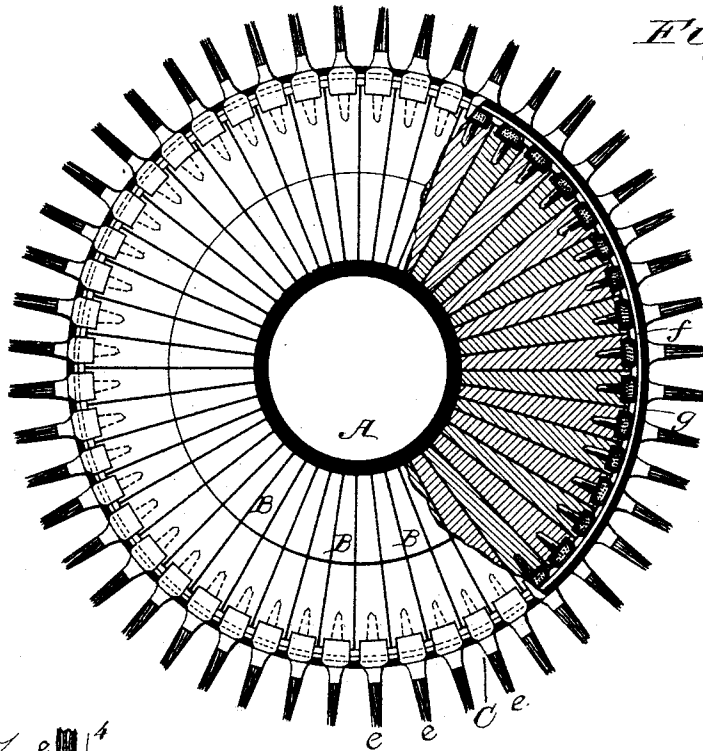


Fig. 1

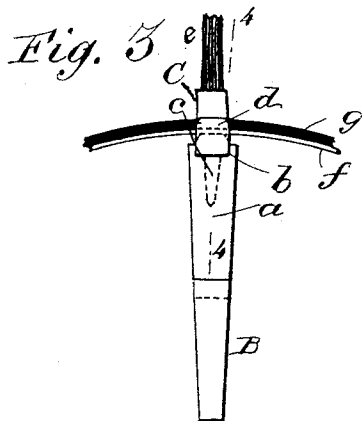


Fig. 3

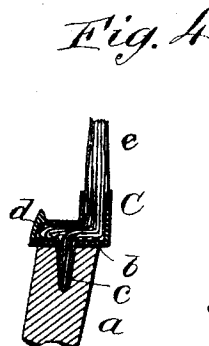


Fig. 4

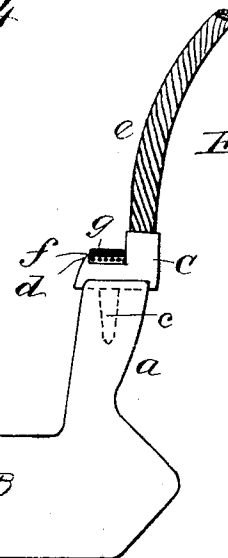


Fig. 2

WITNESSES:

C. Naveux
C. Sedgwick

INVENTOR

O. Dufault
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

OZA DUFAULT, OF SPENCER, MASSACHUSETTS.

ARMATURE CONNECTION FOR DYNAMOS.

SPECIFICATION forming part of Letters Patent No. 514,817, dated February 13, 1894.

Application filed October 27, 1893. Serial No. 489,252. (No model.)

To all whom it may concern:

Be it known that I, OZA DUFAULT, of Spencer, in the county of Worcester and State of Massachusetts, have invented new and Improved Armature Connections for Dynamos, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is an end elevation, partly in section, of a commutator and commutator connections constructed according to my improvement. Fig. 2 is a side elevation of one of the commutator bars and the armature connection. Fig. 3 is an end elevation of one of the commutator bars, showing the armature connection; and Fig. 4 is a vertical transverse section taken on line 4—4 of Fig. 3.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide a simple and effective device for connecting the terminals of the armature coils with the commutator bars.

My invention consists in the combination with the commutator bars, of a terminal piece for attachment to the end of the armature conductor, and a winding of a cord of insulating material for holding the end pieces in contact with the arm of the commutator bar, all as will be hereinafter more fully described.

The commutator cylinder A is constructed in the usual way of a series of commutator bars B, each provided with a radial arm *a*. In the outer end of each arm *a*, parallel with the axis of the commutator cylinder, is made a groove *b*, to which is fitted a right angled connecting piece C, formed of a hollow copper casing or tube into which is inserted the end of the lead *e* which consists of a wire cable, the end of which forms a dowel *c*, which is fitted to a hole in the end of the arm *a*. One arm of the L-shaped connecting piece C lies in the groove *b* in the arm *a*, and is provided with a lug *d*, projecting outwardly parallel

with the longer arm of the L-shaped connector C. The other arm of the connector C projects radially and receives the end of the lead which is secured to the connector in the manner described, and by soldering, or by any of the known methods of making electric connections. It will be seen that the connectors can be attached to the terminals of the armature coils before they are inserted in the grooves of the arms *a*. After they are inserted in the arms *a*, the entire series of connectors is secured in place by a wrapping *f*, of rawhide cord, which is protected by a rubber band *g* stretched over it.

By means of my improvement, any or all of the connectors may be removed by cutting the rawhide cord, and they may be easily and quickly replaced and again secured after the repairs or changes are completed.

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

1. The combination, with the commutator bar B, having the grooved arm *a* provided with a dowel hole, of an L-shaped connector fitted to the groove in the end of the arm and provided with a dowel formed of the end of the lead, substantially as specified.

2. The combination, with a commutator cylinder having commutator bars B provided with arms *a* having dowel holes and grooves in the end thereof, of a series of L-shaped connectors, and a binding of insulating material, for holding the connectors in place, substantially as specified.

3. As an improved article of manufacture, a connector for commutator bars, consisting of an L-shaped piece of metal furnished with a dowel formed of the end of the lead, and with a projection for retaining the binding cord, substantially as specified.

OZA DUFAULT.

Witnesses:

ALBERT W. CURTIS,
DAVID GIROUARD.