

UNITED STATES PATENT OFFICE.

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COMMUTATOR-SECTION OF CAST ALLOY.

1,248,924.

Specification of Letters Patent.

Patented Dec. 4, 1917.

No Drawing.

Application filed June 18, 1917. Serial No. 175,370.

To all whom it may concern:

Be it known that I, HENRY K. SANDELL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Commutator-Sections of Cast Alloys, of which the following is a specification.

My invention relates to certain improvements in cast commutator sections or the like parts of dynamo electric machinery, such as collector rings.

I have discovered that an alloy of 95 parts by weight of copper and 5 parts by weight of nickel is particularly desirable and possesses many advantages over known alloys and metals used for this purpose.

My alloy casts perfectly without blow-holes, is more malleable than a pure copper casting, softer than cast copper, polishes more quickly than pure copper when in service on the commutator, but does not appear to wear any faster after having acquired its polish. The polished surface maintains itself under service conditions to a greater extent than does the surface of a pure copper commutator section and the wear on the brushes is less.

What I claim is:

A cast commutator section for dynamo electric machinery formed of an alloy of 95% of copper and 5% of nickel.

HENRY K. SANDELL.