

Title (en)
SHEET METAL PART OR SINTERED PART FOR A STATOR OR A ROTOR OF AN ELECTRICAL MACHINE AND METHOD FOR PRODUCING SAME

Title (de)
BLECH- ODER SINTERTEIL FÜR EINEN STATOR ODER EINEN LÄUFER EINER ELEKTRISCHEN MASCHINE SOWIE VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
ÉLÉMENT EN TÔLE OU EN MÉTAL FRITTÉ POUR STATOR OU ROTOR D'UNE MACHINE ÉLECTRIQUE ET UN PROCÉDÉ DE FABRICATION DE CELUI-CI

Publication
EP 3178150 A2 20170614 (DE)

Application
EP 15732260 A 20150629

Priority
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• EP 2015064752 W 20150629

Abstract (en)
[origin: WO2016020120A2] The invention relates to a sheet metal part or sintered part (10) for a stator or a rotor of an electrical machine, for example an electric motor, and to a method for producing said sheet metal part or sintered part (10). The sheet metal part or sintered part comprises a connecting piece (11) from which regularly spaced apart teeth (12) project. At the free end, every tooth (12) has a tip (14) which is connected to the connecting piece (11) via a web (13). Every tooth has at least one first tooth segment (22) and at least one second tooth segment (23). The tooth segments are produced from different magnetizable materials (M1, M2). In this way, the materials (M1, M2) can be specifically used in terms of their magnetic and/or mechanical properties in the region of the tooth (12) where they can optimize the magnetic and/or mechanical behavior of the tooth (12) and thus of the sheet metal part or sintered part (10). In particular the tip (14) has at least one first tooth segment (22) the saturation magnetization (BS1) of which is higher than that of the remaining sheet metal part or sintered part (10).

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Citation (search report)
See references of WO 2016020120A2

Citation (examination)
• JP H09163643 A 19970620 - NIHON DENSAN KK
• US 2007241622 A1 20071018 - TOYODA HARUHISA [JP], et al
• JP S5731042 U 19820218
• JP H05219667 A 19930827 - CHODENDO HATSUDEN KANREN KIKI
• JP 2008048502 A 20080228 - JTEKT CORP

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Designated extension state (EPC)
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DOCDB simple family (publication)
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