

Title (en)

CARBON BRUSH AND PRODUCTION METHOD

Title (de)

KOHLEBÜRSTE UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

BALAI À CHARBON ET SON PROCÉDÉ DE FABRICATION

Publication

EP 3732754 A1 20201104 (DE)

Application

EP 18833642 A 20181220

Priority

- DE 102017131341 A 20171227
- EP 2018086110 W 20181220

Abstract (en)

[origin: WO2019129624A1] The invention relates to a carbon brush and a method for producing a carbon brush for electrically contacting a contact structure which moves relative to the carbon brush, in particular of a commutator or slip ring of an electric machine. A brush body of the carbon brush is produced by pressing and temperature treating a material mixture, and the material mixture is formed by mixing a graphite powder with a resin and an additive, wherein the resin is pyrolyzed by the temperature treatment after the pressing process, and graphene in a proportion of 0.01 to < 5 wt.% of the material mixture is used as the additive.

IPC 8 full level

H01R 39/02 (2006.01); **H01R 39/20** (2006.01); **H01R 43/12** (2006.01)

CPC (source: EP KR US)

F04D 13/06 (2013.01 - US); **H01R 39/20** (2013.01 - EP KR US); **H01R 43/12** (2013.01 - EP KR US); **H02K 13/10** (2013.01 - US)

Citation (search report)

See references of WO 2019129624A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102017131341 A1 20190627; CN 111587518 A 20200825; CN 111587518 B 20220401; EP 3732754 A1 20201104; JP 2021508913 A 20210311; KR 20200101348 A 20200827; US 2021075172 A1 20210311; WO 2019129624 A1 20190704

DOCDB simple family (application)

DE 102017131341 A 20171227; CN 201880083403 A 20181220; EP 18833642 A 20181220; EP 2018086110 W 20181220; JP 2020533738 A 20181220; KR 20207016890 A 20181220; US 201816955397 A 20181220