

Title (en)

ELECTRIC MACHINE COMPRISING A FLAT COMMUTATOR AND A BRUSH HOLDER

Title (de)

ELEKTRISCHE MASCHINE MIT PLANKOMMUTATOR UND BÜRSTENHALTER

Title (fr)

MOTEUR ELECTRIQUE COMPRENANT UN COMMUTATEUR PLAN ET UN PORTE-BALAIS

Publication

EP 1805868 A1 20070711 (DE)

Application

EP 05791849 A 20050830

Priority

- EP 2005054248 W 20050830
- DE 102004051461 A 20041022

Abstract (en)

[origin: WO2006045658A1] Disclosed is an electric machine (10) comprising a flat commutator that is provided with a face encompassing planar contact segments (76), and a brush holder (32) which retains, within cartridges (34), brushes (30) that are impinged upon by springs. Said brush holder (32) is provided with holes in the cartridges (34) on the bottom side facing the flat commutator (28), the brushes (30) protruding from said holes and contacting the contact segments (6) of the face of the flat commutator (28). The springs are embodied as scroll springs (40) which are hung on hanging means (36) that are configured laterally on the cartridges (34) by means of hooks (38). The hanging means (36) are disposed on a plane that extends parallel to and at a distance from the planar face of the flat commutator (28). The invention has the advantage of optimizing the efficiency of small DC motors comprising a flat commutator.

IPC 8 full level

H01R 39/06 (2006.01); **H01R 39/415** (2006.01); **H02K 5/14** (2006.01)

CPC (source: EP)

H01R 39/415 (2013.01); **H02K 5/148** (2013.01); **H01R 39/381** (2013.01)

Citation (search report)

See references of WO 2006045658A1

Cited by

US10840781B2

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

DE 102004051461 A1 20060427; CN 101040419 A 20070919; CN 101040419 B 20110413; EP 1805868 A1 20070711; WO 2006045658 A1 20060504

DOCDB simple family (application)

DE 102004051461 A 20041022; CN 200580035217 A 20050830; EP 05791849 A 20050830; EP 2005054248 W 20050830