

Title (en)
BRUSHLESS DC ELECTRIC MOTOR

Title (de)
BÜRSTENLOSER GLEICHSTROMMOTOR

Title (fr)
MOTEUR ÉLECTRIQUE À CC SANS BALAIS

Publication
EP 4338269 A1 20240320 (EN)

Application
EP 22723542 A 20220505

Priority
• CZ 2021233 A 20210514
• CZ 2022050048 W 20220505

Abstract (en)
[origin: WO2022237923A1] A brushless DC electric motor for supplying multiphase supply voltage is composed of at least one rotor (2) fitted with permanent magnets (7). Number of rotors (2) ideally corresponds to the number of phases of the supply voltage. The rotors (2) are mounted on a shaft (1). The motor is composed of a split stator (3) with slots (5) to support the coils (8) of the stator windings. Each part of the stator (3) is electrically connected to the inverter to supply only one of the phases of the supply voltage, and at the same time the parts of the stator (3) are arranged relative to each other so that at least two parts of the stator (3) have a non-zero angular displacement of the slots (5) relative to each other.

IPC 8 full level
H02K 16/04 (2006.01); **H02K 1/14** (2006.01); **H02K 21/16** (2006.01); **H02K 29/06** (2006.01); **H02P 6/14** (2016.01)

CPC (source: CZ EP)
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Designated extension state (EPC)
BA ME

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