

Title (en)
POWER TOOLS WITH INTEGRATED CIRCUIT BOARDS

Title (de)
ELEKTROWERKZEUGE MIT LEITERPLATTEN

Title (fr)
OUTILS ÉLECTRIQUES POURVUS DE CARTES DE CIRCUITS INTÉGRÉS

Publication
EP 3602750 A1 20200205 (EN)

Application
EP 17902256 A 20170324

Priority
CN 2017078146 W 20170324

Abstract (en)
[origin: WO2018170906A1] A brushless motor (22) includes a casing (34) which at least partially accommodates a stator and a rotor, an end cap (40) located adjacent to an end of the brushless motor; and a circuit board (32) which contains a controller for the brushless motor. The circuit board is located outside of a region defined by the end cap and the casing. As the circuit board is placed outside of the casing and the end cap, there is no need to configure a separate heat-sink for the circuit board, but the end cap to which the circuit board is mounted becomes a large heat-sink for the circuit board. This provides improved heat dissipation efficiency for both the circuit board and the stator /rotor of the motor.

IPC 8 full level
H02K 9/06 (2006.01)

CPC (source: EP US)
H02K 7/145 (2013.01 - EP); **H02K 9/02** (2013.01 - EP); **H02K 9/227** (2021.01 - EP US); **H02K 11/215** (2016.01 - EP); **H02K 11/33** (2016.01 - EP); **H02K 2211/03** (2013.01 - EP)

Designated contracting state (EPC)
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Designated extension state (EPC)
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