

Title (en)

Method of Operating and Cooling Device for the Motor of an Electric Tool

Title (de)

Betriebsverfahren und Kühleinrichtung für den Motor eines Elektrowerkzeugs

Title (fr)

Procédé de fonctionnement et dispositif de refroidissement pour le moteur d'un outil électrique

Publication

EP 1431006 B1 20151021 (DE)

Application

EP 03104751 A 20031217

Priority

DE 10259372 A 20021218

Abstract (en)

[origin: EP1431006A2] The method involves control electronics regulating the unloaded operating revolution rate to a value equal to a selected working revolution rate (n1). The motor is operated at a defined increased revolution rate (n2) for cooling if there is no load moment acting on the motor. The motor is changed over to the higher speed after a defined no-load period (deltaT). AN Independent claim is also included for the following: (a) an electric tool with control electronics for the motor revolution rate (b) and a method.

IPC 8 full level

B25D 17/00 (2006.01); **B25F 5/00** (2006.01); **H02H 7/085** (2006.01); **H02P 29/02** (2006.01)

CPC (source: EP US)

B25F 5/008 (2013.01 - EP US); **Y10S 388/934** (2013.01 - EP US); **Y10S 388/937** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

EP 1431006 A2 20040623; **EP 1431006 A3 20140618**; **EP 1431006 B1 20151021**; DE 10259372 A1 20040708; JP 2004195643 A 20040715; JP 4450612 B2 20100414; US 2004189224 A1 20040930; US 6911793 B2 20050628

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