

Title (en)

Switch, in particular battery-switch for manually operated electric tools.

Title (de)

Schalter, insbesondere Akku-Schalter für handbetätigte Elektrowerkzeuge.

Title (fr)

Interrupteur, en particulier interrupteur de la batterie pour outils électriques manuel.

Publication

EP 0512316 B1 19951108 (DE)

Application

EP 92106835 A 19920422

Priority

DE 4114854 A 19910507

Abstract (en)

[origin: EP0512316A2] A switch is proposed, especially for use for a hand-operated battery electrical tool having a DC motor, in which control electronics are provided for varying the rotation speed of the DC motor. In order to produce the switch as compactly as possible and without additional lead connections to the power transistor, and in order furthermore to have a positive influence on the heat budget within the switch, a contact system (5) and a freewheeling diode (8) are articulated on a common bearing plate (11) which is connected in a current and heat conducting manner via a connecting bolt (12) to a power transistor (7) on the housing. At the same time, the power transistor is cooled by means of a heat sink which is provided on the switch housing. <IMAGE>

IPC 1-7

H01H 9/06

IPC 8 full level

H01H 9/02 (2006.01); **H01H 9/06** (2006.01); **H05K 7/20** (2006.01); **H01H 9/52** (2006.01)

CPC (source: EP US)

H01H 9/061 (2013.01 - EP US); **H01H 9/52** (2013.01 - EP US)

Cited by

US6104105A; EP0732714A3; US5798584A; EP1781074A3; DE19831458B4; EP0726586A3; US6552904B2; WO9737364A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL

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EP 0512316 A2 19921111; **EP 0512316 A3 19930217**; **EP 0512316 B1 19951108**; DE 4114854 A1 19921112; DE 59204229 D1 19951214; ES 2080982 T3 19960216; JP H06290665 A 19941018; JP H0828146 B2 19960321; US 5289047 A 19940222

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EP 92106835 A 19920422; DE 4114854 A 19910507; DE 59204229 T 19920422; ES 92106835 T 19920422; JP 11375792 A 19920506; US 87937992 A 19920507