

Title (en)

CONTROL DEVICE, PARTICULARLY IN THE TYPE OF AN ELECTRIC SWITCH FOR HAND-HELD POWER TOOLS

Title (de)

STEUERGERÄT, INSBESONDERE IN DER ART EINES ELEKTRISCHEN SCHALTERS FÜR ELEKTROHANDWERKZEUGE

Title (fr)

APPAREIL DE COMMANDE, EN PARTICULIER DU TYPE COMMUTATEUR ÉLECTRIQUE, POUR OUTILS MANUELS ÉLECTRIQUES

Publication

EP 2179427 B1 20120725 (DE)

Application

EP 08801111 A 20080806

Priority

- DE 2008001273 W 20080806
- DE 102007037234 A 20070807
- DE 102007037236 A 20070807
- DE 102007037237 A 20070807
- DE 102007037239 A 20070807

Abstract (en)

[origin: WO2009018813A2] The invention relates to a control device, particularly an electric switch (1) for use for a hand-held power tool, such as a hand-held power tool using a rechargeable battery and/or mains operation, for example drills, grinders, saws, planes, angle grinders and the like, comprising an electric motor. The switch (1) comprises a housing (2) for receiving at least one heat-generating power element, such as a power transistor, a MS-FET, a triac, or the like, which is particularly arranged in an electric circuit arrangement. The circuit arrangement is used, for example, to control and/or regulate the electric motor through a corresponding control and/or regulation of the electric load current flowing through the power element to the electric motor. The heat-generating power element and/or at least parts of the circuit arrangement are thermally conductively connected to a cooling body (6) disposed on the outside of the housing (2). The cooling body (6) comprises at least two regions, wherein the first region of the cooling body (6) is arranged in the housing (2) such that the heat-generating element and/or at least parts of the circuit arrangement are directly connected to the first region, and wherein the second region (12) of the cooling body (6) protrudes out of the housing (2), particularly in the manner of a lateral emergence on both sides out of the housing (2). Furthermore, an electric switch (1) having a resilient contact bearing is created, wherein the movement of the operating element (3) is deflected approximately in the transversal direction relative to the action on the contact system. Finally, the electric switch (1) can be provided with an on-blocking device (24) having a blocking member, wherein the blocking member comprises a plastic web.

IPC 8 full level

H01H 9/52 (2006.01)

CPC (source: EP)

H01H 9/52 (2013.01); **H01H 1/26** (2013.01); **H01H 3/20** (2013.01); **H01H 3/42** (2013.01); **H01H 3/46** (2013.01); **H01H 9/06** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009018813 A2 20090212; WO 2009018813 A3 20090409; CN 101802950 A 20100811; CN 101802950 B 20141022; EP 2179427 A2 20100428; EP 2179427 B1 20120725; SI 2179427 T1 20121030

DOCDB simple family (application)

DE 2008001273 W 20080806; CN 200880101977 A 20080806; EP 08801111 A 20080806; SI 200830753 T 20080806