

Title (en)

VARIABLE SWITCHBOX FOR A MOTOR (PROTECTIVE) CIRCUIT-BREAKING SWITCH AND UNDERVOLTAGE RELEASE TO BE MOUNTED IN ELECTRIC TOOLS OR THE LIKE

Publication

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Application

EP 84110803 A 19840911

Priority

- EP 84110803 A 19840911
- EP 8400276 W 19840911

Abstract (en)

[origin: EP0174382A1] 1. Detachable switch box, more especially for electric tools, having a respective operating knob (7, 8) for manually switching on or off, which knobs extend parallel to each other internally of an insulating material housing (6) for the switch box and are interconnected via an interlocking mechanism (5), wherein an installation chamber for an electromagnet (4) for releasing low tension voltage is also provided, the armature (10) of which electromagnet is connectable to the interlocking mechanism (5), characterised in that the switch box includes a motor switch or a motor protection switch (1) as a separate component part ; in that, at the ends of their thrust journals, the operating knobs (7, 8) are pivotally connected to the ends of the longer arm of an L-shaped lever member (11) ; in that the longer arm between the pivot mountings on sides of the switch-on knob (7) opposite a housing stop member (13) is provided with a switching cam (12), which is in frictional contact with the compression spring-loaded operating key of the motor (protection) switch (1) ; in that the shorter arm of the L-shaped lever member (11) on sides of the switching-on knob (7) serves as a laterally rigidly angled locking cam (14) which co-operates with a housing projection (15) in a form-locking manner ; in that the longer arm on sides of the switching-off knob (8) can engage in a hinged armature (10) of the electromagnet (4) for releasing low-tension voltage by means of a pivotably angled connection-piece (16) ; and in that a release spring (17) is utilisable for the release of low-tension voltage, which spring is supported on the inner housing wall and moves the L-shaped lever member (11) into the switched-off position, which movement is defined by an additional housing stop member (13').

IPC 1-7

H01H 83/12

IPC 8 full level

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CPC (source: EP)

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Cited by

DE4311958A1; DE3937546A1; GB2288282A; GB2288282B; EP0458190A1; CH680174A5; AU647787B2; CN106062916A; US10354822B2; WO2015059191A1; US10818450B2

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