

Title (en)

Electrical plug with built-in safety switch for electrical apparatuses

Title (de)

Elektrischer Steckverbinder mit eingebautem Sicherheitsschalter für elektrische Apparate

Title (fr)

Connecteur électrique à fiche équipé d'un interrupteur de sécurité incorporé pour des appareils électriques

Publication

**EP 1202397 A1 20020502 (EN)**

Application

**EP 00830702 A 20001025**

Priority

EP 00830702 A 20001025

Abstract (en)

This invention concerns an electrical plug with built-in safety switch for use with an electrical apparatus (3) comprising a casing (7), at least two terminals (8) and a corresponding number of power supply lines for said electrical apparatus (3), an electrically controlled switch (1) that couples two terminals (8) to said power supply lines, a sensor (4) to sense the behaviour of the current supplied to said apparatus (3), inserted between said switch (1) and said apparatus (3), as well as an electronic control unit (5) which receives signal corresponding to said sensed behaviour from said sensor (4) and generates control signals for said switch (1), said electronic control unit (5) operating in differential mode, according to which it closes said switch (1) at power-up and opens it when the current sensed by said sensor (4) is higher than a differential threshold value. <IMAGE>

IPC 1-7

**H01R 13/713**; H02H 3/26; H01H 83/14

IPC 8 full level

**H01H 83/14** (2006.01); **H01R 13/703** (2006.01); **H01R 35/04** (2006.01)

CPC (source: EP)

**H01H 83/144** (2013.01); **H01R 13/7036** (2013.01); **H01R 35/04** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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