

Title (en)

An actuator, an electrical plug and socket assembly

Title (de)

Aktuator, elektrischer Stecker und Buchsenanordnung

Title (fr)

Actionneur, prise électrique et ensemble de douille

Publication

EP 2403071 A1 20120104 (EN)

Application

EP 10167741 A 20100629

Priority

EP 10167741 A 20100629

Abstract (en)

An actuator, an electrical socket and electrical plug and socket assembly are disclosed. The actuator (11) is configured for operational with an electrical plug (14), where the actuator (11) includes a cylindrical projection (111) formed with a guiding means (112) that is carved on its outer surface. A shutter (12) can cover apertures (131) in the electrical socket when the socket is not in use. This shutter (12) includes a pair of projections (121) that is guided in the guiding means (112) of the actuator (11) when the plug (14) is inserted into the socket, which opens the shutter (12) to enable easy accessibility of the protected power socket outlet. Such arrangement can avoid the insertion of non-protected power plugs and achieve efficient utilization of protected power. It also achieves a balanced and/or symmetric poke yoke design with child protection and foreign particle protection.

IPC 8 full level

H01R 13/453 (2006.01); **H01R 13/64** (2006.01)

CPC (source: EP)

H01R 13/4532 (2013.01); **H01R 13/64** (2013.01)

Citation (applicant)

GB 2234865 A 19910213 - TRAVEL ACCESSORIES [GB]

Citation (search report)

- [XYI] FR 2271680 A1 19751212 - COUQUEBERG MICHEL [FR]
- [XI] FR 2833111 A1 20030606 - LEGRAND SA [FR], et al
- [Y] GB 2279511 A 19950104 - SEAPART LTD [GB]

Cited by

DE102012020641B4; FR3014602A1; EP3043424A1; CN109004427A

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2403071 A1 20120104

DOCDB simple family (application)

EP 10167741 A 20100629