Title (en)
  INSERTION TYPE CIRCUIT BREAKER

Title (de)
  UNTERBRECHERSCHALTUNG DES EINFÜGETYPS

Title (fr)
  DISJONCTEUR A INSERTION

Publication
  EP 1507275 A4 20080326 (EN)

Application
  EP 02728105 A 20020522

Priority
  JP 0204943 W 20020522

Abstract (en)
  [origin: EP1507275A1] A Plug-In Circuit Breaker comprises: a trip rod (21) that brings in operation a switch contact making and breaking a circuit where a load current flows, and a trip mechanism that causes this switch contact to be in an open circuit; a lever (22) that acts on the trip rod (21) when plugging a circuit breaker body (1) in a mounting base (7) or detaching the circuit breaker body (1) from the mounting base (7); an elastic member (23) giving an impetus to this lever (22); and a lock mechanism (30) that locks the lever (22) against the bias force given by the elastic member (23) when the circuit breaker body (1) is detached from the mounting base (7). As a result, it is possible to carry out an open/close check easily even in the state that the circuit breaker body (1) is detached from the mounting base (7). In addition, it is possible to obtain a Plug-In Circuit Breaker performing a tripping operation even in the case of plugging the circuit breaker body (1) in the mounting base (7), or in the case of detaching the circuit breaker body (1) from the mounting base (7) in the state that the trip rod (21) is made stationary. <IMAGE>

IPC 1-7
  H01H 73/08; H01H 73/00

IPC 8 full level
  H01H 71/12 (2006.01); **H01H 73/08** (2006.01)

CPC (source: EP)
  H01H 1/5866 (2013.01); **H01H 71/126** (2013.01); **H01H 73/08** (2013.01); H01H 71/08 (2013.01)

Citation (search report)
  • [A] US 5719363 A 19980217 - HAENDLER KURT [DE]
  • See references of WO 03098652A1

Cited by
  EP2254137A1; US2013201608A1; US8649160B2; US10102994B2; US9984845B2; US8173916B2; US9197040B2; WO2017184486A3; WO2018038841A1

Designated contracting state (EPC)
  DE

DOCDB simple family (publication)
  EP 1507275 A1 20050216; **EP 1507275 A4 20080326**; **EP 1507275 B1 20110202**; CN 1302503 C 20070228; CN 1520602 A 20040811; DE 60239108 D1 20110317; JP 4057010 B2 20080305; JP WO2003098652 A1 20050922; TW I222094 B 20041011; WO 03098652 A1 20031127

DOCDB simple family (application)
  EP 02728105 A 20020522; CN 02809150 A 20020522; DE 60239108 T 20020522; JP 0204943 W 20020522; JP 2004506054 A 20020522; TW 91111259 A 20020528