

Title (en)  
CIRCUIT BREAKER

Title (de)  
UNTERBRECHERSCHALTER

Title (fr)  
DISJONCTEUR

Publication  
**EP 1475817 A4 20080416 (EN)**

Application  
**EP 01982867 A 20011120**

Priority  
JP 0110134 W 20011120

Abstract (en)  
[origin: EP1475817A1] A circuit breaker superior in heat resistance, arc resistance and over-travel characteristic, and suitable for recycling or reuse is provided. <??>The circuit breaker includes an open/close mechanism (7, 28, 29, 31, 32) for opening and closing a moving contact (5, 25) through a retention holder (6, 26) turnably holding the moving contact (5, 25), and a base (2, 21) for turnably holding the retention holder (6, 26) and holding a stationary side contact (10, 23). Detection of any over-current causes the moving contact (5, 25) to turn, and an arc-extinguishing device (9, 34) extinguishes arc generated between the contacts. Further the base (2, 21) of the circuit breaker is formed of an insulating molded article, which is mainly composed of a crystalline thermoplastic resin and is irradiated with electron beams after molding. <IMAGE>

IPC 1-7  
**H01H 73/06**; **H05K 5/02**; **B29C 71/04**; **H01B 3/30**

IPC 8 full level  
**B29C 71/04** (2006.01); **H01B 3/30** (2006.01); **H01H 71/02** (2006.01); **H01H 73/06** (2006.01); **H05K 5/02** (2006.01); **H01H 69/00** (2006.01)

CPC (source: EP KR)  
**H01H 71/02** (2013.01 - EP); **H01H 73/06** (2013.01 - KR); **H01H 69/00** (2013.01 - EP); **H01H 71/0257** (2013.01 - EP);  
**H01H 2009/0077** (2013.01 - EP)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 03044818A1

Cited by  
US8089023B2; EP3817024A4; US11764019B2

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**EP 1475817 A1 20041110**; **EP 1475817 A4 20080416**; **EP 1475817 B1 20090708**; CN 1255839 C 20060510; CN 1486500 A 20040331;  
DE 60139216 D1 20090820; JP 4177255 B2 20081105; JP WO2003044818 A1 20050324; KR 100528152 B1 20051115;  
KR 20040021583 A 20040310; TW 526509 B 20030401; WO 03044818 A1 20030530

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KR 20037009255 A 20030710; TW 90129499 A 20011129