

Title (en)  
CIRCUIT BREAKER

Title (de)  
SCHUTZSCHALTER

Title (fr)  
COUPE-CIRCUIT

Publication  
**EP 1168391 A4 20030813 (EN)**

Application  
**EP 00900171 A 20000111**

Priority  
JP 0000076 W 20000111

Abstract (en)  
[origin: EP1168391A1] A circuit interrupter comprising a contact arm rotatably supporting movable members by a movable member pin, wherein a housing side wall has a sloped surface facing to an end surface of the movable member pin, the arrangement being such that a predetermined gap is defined between the end surface of the movable member pin and the housing side wall when the movable members are in the open position, and that a small gap is defined between the end surface of the movable member pin and the housing side wall when the movable members are in the closed position. The housing side wall opposing to the end surface of the movable member pin is provided with a friction reducing member and the end surface of the movable member pin is a sphere-shaped. Also, a tubular bush is provided between the contact arm and a contact arm pin for reducing a play therebetween and preventing the movable members from laterally moving. <IMAGE>

IPC 1-7  
**H01H 9/34**; **H01H 73/02**

IPC 8 full level  
**H01H 1/22** (2006.01); **H01H 71/02** (2006.01); **H01H 71/50** (2006.01); **H01H 73/04** (2006.01)

CPC (source: EP KR)  
**H01H 1/226** (2013.01 - EP); **H01H 73/04** (2013.01 - KR); **H01H 71/0207** (2013.01 - EP); **H01H 71/025** (2013.01 - EP);  
**H01H 71/504** (2013.01 - EP); **H01H 73/04** (2013.01 - EP); **H01H 2071/0292** (2013.01 - EP)

Citation (search report)  
• [AX] US 5898146 A 19990427 - BECK HENRY RICHARD [US], et al  
• [A] US 5146194 A 19920908 - ALTENHOF JR JAMES N [US], et al  
• [AX] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02 29 February 2000 (2000-02-29)  
• [DA] PATENT ABSTRACTS OF JAPAN vol. 016, no. 372 (E - 1246) 11 August 1992 (1992-08-11)  
• See references of WO 0152289A1

Designated contracting state (EPC)  
DE ES FR GB

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DE 60024426 D1 20060105; DE 60024426 T2 20060810; ES 2249243 T3 20060401; JP 4329922 B2 20090909; KR 100447439 B1 20040904;  
KR 20010108328 A 20011207; TW 512380 B 20021201; WO 0152289 A1 20010719

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