

Title (en)  
Heavy-duty circuit-breaker with reversal of the movement

Title (de)  
Hochleistungsschalter mit Bewegungsumkehr

Title (fr)  
Disjoncteur-limiteur avec inversion du mouvement

Publication  
**EP 1630840 A1 20060301 (DE)**

Application  
**EP 04405525 A 20040823**

Priority  
EP 04405525 A 20040823

Abstract (en)  
The circuit breaker includes an auxiliary drive mechanism (3). This mechanism is constructed to reverse the direction of movement of the second arc contact section (2). Reversal takes place during circuit breaking, and occurs when the constricted section (6) is no longer partially blocked by the contact end section (2). The auxiliary drive is an electrodynamic drive. It is alternatively taken from the main drive. The auxiliary drive mechanism includes at least one cam track plate (14). Equations describing the constriction geometry are provided. An independent claim is included for the corresponding method.

IPC 8 full level  
**H01H 33/90** (2006.01); **H01H 33/76** (2006.01)

CPC (source: EP US)  
**H01H 33/901** (2013.01 - EP US); **H01H 3/42** (2013.01 - EP); **H01H 33/7023** (2013.01 - EP US); **H01H 33/765** (2013.01 - EP US);  
**H01H 33/904** (2013.01 - EP US); **H01H 2033/028** (2013.01 - EP US)

Citation (search report)  
• [A] WO 0052721 A1 20000908 - ALSTOM [FR], et al  
• [A] DE 10003357 C1 20010705 - SIEMENS AG [DE]

Cited by  
EP2645396A1; US2010012624A1; EP1933348A1; DE102014102929A1; US8415578B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1630840 A1 20060301**; **EP 1630840 B1 20061220**; AT E349067 T1 20070115; CN 101048836 A 20071003; CN 101048836 B 20111228;  
DE 502004002381 D1 20070201; US 2007181536 A1 20070809; US 7507932 B2 20090324; WO 2006021107 A1 20060302;  
WO 2006021107 A8 20060420

DOCDB simple family (application)  
**EP 04405525 A 20040823**; AT 04405525 T 20040823; CH 2005000431 W 20050722; CN 200580036306 A 20050722;  
DE 502004002381 T 20040823; US 70923207 A 20070222