

Title (en)

Circuit breaker with improved cross-bar and contact assembly.

Title (de)

Selbstschalter mit Querträger- und Kontaktanordnung.

Title (fr)

Disjoncteur avec assemblage d'une traverse et d'un contact.

Publication

**EP 0145990 A2 19850626 (EN)**

Application

**EP 84113997 A 19841120**

Priority

- US 56264783 A 19831219
- US 56264883 A 19831219

Abstract (en)

The invention relates to an electric circuit breaker having improved operating means with current-limiting capability. The operating means include an insulating cross-bar (84) pivotally supporting one contact (52) of each contact pair and having, at each pivotal connection (110) with a contact, a portion (270) defining a pocket (282) into which extends an end portion (284) of the associated contact, and in which are disposed restraining means (286, 288) cooperating with said end portion in such manner as to normally constrain the contact (52) to move together and in unison with the cross-bar (84), and to permit the contact to open independently of the cross-bar under the action of electrodynamic forces resulting from a high-level fault current flowing through the contacts. The cross-bar assembly is compact, requiring relatively little space, and at the same time provides reliable and fast contact operation.

IPC 1-7

**H01H 71/10**; **H01H 77/10**

IPC 8 full level

**H01H 73/22** (2006.01); **H01H 71/10** (2006.01); **H01H 77/10** (2006.01); **H01H 1/58** (2006.01); **H01H 71/50** (2006.01)

CPC (source: EP KR)

**H01H 71/10** (2013.01 - EP KR); **H01H 77/104** (2013.01 - EP); **H01H 1/5833** (2013.01 - EP); **H01H 71/501** (2013.01 - EP); **H01H 2001/223** (2013.01 - EP)

Cited by

EP0246727A3; CN113192789A; EP0945883A3; EP0296183A4; EP0204216A3; EP0923103A3; FR2612687A1; EP0358482A3; EP0243980A3; US9000316B2; WO2014137642A3; WO9105391A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0145990 A2 19850626**; **EP 0145990 A3 19860219**; **EP 0145990 B1 19900425**; AU 3577984 A 19850627; AU 573286 B2 19880602; BR 8406553 A 19851015; DE 3482075 D1 19900531; ES 538702 A0 19860601; ES 8608226 A1 19860601; IE 56136 B1 19910424; IE 842944 L 19850619; IN 160719 B 19870801; JP 2610806 B2 19970514; JP S60151924 A 19850810; KR 850004874 A 19850727; KR 930001001 B1 19930212; MX 156833 A 19881005; NZ 210256 A 19880630

DOCDB simple family (application)

**EP 84113997 A 19841120**; AU 3577984 A 19841122; BR 8406553 A 19841214; DE 3482075 T 19841120; ES 538702 A 19841217; IE 294484 A 19841116; IN 811CA1984 A 19841127; JP 26728684 A 19841217; KR 840008126 A 19841219; MX 20370484 A 19841213; NZ 21025684 A 19841120