

Title (en)

Spring motor driving mechanism for a circuit breaker.

Title (de)

Federkraftantrieb für einen Leistungsschalter.

Title (fr)

Mécanisme d'entraînement à moteur à ressort pour disjoncteur.

Publication

EP 0385265 B1 19941012 (DE)

Application

EP 90103414 A 19900222

Priority

CH 80089 A 19890303

Abstract (en)

[origin: EP0385265A1] Two discs (32) per vacuum switching tube (12) are seated on the input drive shaft (28), which discs (32) have slots (34) extending circumferentially around the input drive shaft (28) and open with respect to one another. In the slots (34) of two adjacent discs (32) there is guided a cylindrical follower element (36) whose movement is transmitted via a strap (38) onto the pivoting lever (24) and to the movable switching contact (20). In the switched-on and switched-off positions, the input drive shaft (28) is supported via a detachable supporting device (92, 94), driven clockwise by the spiral spring (68) in order to switch the circuit breaker on or off. The follower element (36) is forcibly guided in the slots (34) of the discs (32), as a result of which the position of the movable switching contact (20) is forced to coincide with the corresponding rotational position of the input drive shaft (28). <IMAGE>

IPC 1-7

H01H 3/30

IPC 8 full level

F16H 25/14 (2006.01); **H01H 33/28** (2006.01); **H01H 33/42** (2006.01); **H01H 3/42** (2006.01)

CPC (source: EP US)

H01H 3/3042 (2013.01 - EP US); **H01H 33/42** (2013.01 - EP US); **H01H 3/42** (2013.01 - EP US)

Cited by

CN102664355A; CH682431A5; DE112010004255B4; DE202006012002U1; CN111313264A; FR2896617A1; EP1056108A1; FR2794279A1; WO2007016880A1; WO2015162534A1

Designated contracting state (EPC)

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EP 90103414 A 19900222; AT 90103414 T 19900222; DE 59007411 T 19900222; DK 90103414 T 19900222; ES 90103414 T 19900222; JP 5157390 A 19900302; US 48291990 A 19900222