

Title (en)

Quench chamber for load disconnecting switches.

Title (de)

Löschkammer für Lasttrennschalter.

Title (fr)

Chambre d'extinction pour sectionner à coupure en charge.

Publication

EP 0016856 A1 19801015 (DE)

Application

EP 79103352 A 19790907

Priority

DE 2907574 A 19790227

Abstract (en)

[origin: US4315120A] A load disconnection switch incorporating a quench chamber is described which features a tube-like housing, a telescope-like arrangement of a quench tube and a switch rod guided for relative axial movement within the tube-like housing and releasably connected together by a coupling system the release of which is dependent on relative movement between the quench tube and the housing. The coupling system comprises at least one blocking device which is displaceably arranged in a respective radial guide in the wall of the quench tube and which engages in a recess provided in the switch rod. A control wall restricts the radial movement of the blocking device until, after a specified degree of relative movement between the tube-like housing and the coupled arrangement of quench tube and switch rod the restraint provided by the control wall is lifted and the ensuing relative movement of the quench tube and switch rod results in the current carrying path through the switch rod being interrupted at a spark contact and the heat generated at the spark contact causes the omission of quench gas from an associated quench rod which promptly extinguishes the arc. The spark contact is conveniently guided in an opening in the wall of the quench tube and a diametrically opposed pressure pad located at the other side of the switch rod ensures contact between the switch rod and the spark contact.

Abstract (de)

Es wird eine Löschkammer beschrieben, bei der zwecks Erzielung einer von Klinken unabhängigen, ruckfreien Auslösung zwischen Schaltstift (3) und einer außen liegenden Steuerwand (12) wenigstens ein im Löschrohr radial geführtes Blockierorgan (10, 11) angeordnet ist, das den Schaltstift (3) erst bei Erreichen einer Querschnittserweiterung (13) der Steuerwandung (12) freigibt.

IPC 1-7

H01H 33/72

IPC 8 full level

H01H 33/72 (2006.01); **H01H 33/76** (2006.01)

CPC (source: EP US)

H01H 33/76 (2013.01 - EP US)

Citation (search report)

- DE 2353627 B2 19760520
- [A] DE 2434438 A1 19760129 - CONCORDIA SPRECHER SCHALT
- [A] CH 401203 A 19651031 - CONCORDIA MASCH & ELEKT [DE]
- [AP] DE 2825012 A1 19791213 - CONCORDIA SPRECHER SCHALT

Designated contracting state (EPC)

AT BE GB SE

DOCDB simple family (publication)

US 4315120 A 19820209; AT E3680 T1 19830615; BR 7906996 A 19801014; CA 1133035 A 19821005; CH 656250 A5 19860613; DE 2907574 A1 19800828; DE 2907574 C2 19840517; EP 0016856 A1 19801015; EP 0016856 B1 19830601; MX 146700 A 19820730; YU 222279 A 19830430; YU 22279 A 19830430; YU 39640 B 19850320

DOCDB simple family (application)

US 7190979 A 19790904; AT 79103352 T 19790907; BR 7906996 A 19791029; CA 334752 A 19790830; CH 16780 A 19800110; DE 2907574 A 19790227; EP 79103352 A 19790907; MX 17944679 A 19790928; YU 222279 A 19790912; YU 22279 A 19790912