

Title (en)
COMMUTATING CIRCUIT BREAKER

Title (de)
GLEICHRICHTER-SCHUTZSCHALTER

Title (fr)
COUPE-CIRCUIT À COMMUTATION

Publication
EP 2761637 A4 20150318 (EN)

Application
EP 12834648 A 20121001

Priority

- US 201161541301 P 20110930
- US 201213366611 A 20120206
- US 201261619531 P 20120403
- US 2012058240 W 20121001

Abstract (en)
[origin: WO2013049790A1] A commutating circuit breaker that works by progressively inserting increasing resistance into a circuit via physical motion of a shuttle inked into the circuit by one set of sliding electrical contacts on the shuttle that connect the power through the moving shuttle to a sequence of different resistive paths with increasing resistance; the motion of the shuttle can be either linear or rotary. A feature is that at no point are the shuttle electrodes separated from the matching stationary stator electrodes to generate a powerful arc. Instead, the current is commutated from one resistive path to the next with small enough changes in resistance at each step that arcing can be suppressed. The variable resistance can either be within the moving shuttle, or the shuttle can comprise a commutating shuttle that moves the current over a series of stationary resistors.

IPC 8 full level
H01H 9/42 (2006.01); **H01C 10/04** (2006.01); **H01C 10/16** (2006.01); **H01H 33/59** (2006.01); **H01H 33/16** (2006.01)

CPC (source: EP)
H01C 10/04 (2013.01); **H01C 10/16** (2013.01); **H01H 33/596** (2013.01); **H01H 33/161** (2013.01)

Citation (search report)

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- [YA] US 4433608 A 19840228 - DEIS DANIEL W [US], et al
- [YA] US 4598332 A 19860701 - KEMENY GEORGE A [US]
- [YA] US 2066129 A 19361229 - TRIPLET HUGH A
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AU2018363438B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013049790 A1 20130404; AU 2012315502 A1 20140417; AU 2012315502 B2 20160630; CA 2850601 A1 20130404; CA 2850601 C 20181211; CN 104115250 A 20141022; CN 104115250 B 20171103; EP 2761637 A1 20140806; EP 2761637 A4 20150318; EP 2761637 B1 20161207; ES 2613669 T3 20170525; HK 1200240 A1 20150731; PL 2761637 T3 20170630

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