Title (en)
COMMUTATING CIRCUIT BREAKER

Title (de)
GLEICHRICHTER-SCHUTZSCHALTER

Title (fr)
COUPE-CIRCUIT À COMMUTATION

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)

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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)
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DOCDB simple family (application)
US 2012058240 W 20121001; AU 2012315502 A 20121001; CA 2850601 A 20121001; CN 201280059389 A 20121001; EP 12834648 A 20121001; ES 12834648 T 20121001; HK 15100512 A 20150116; PL 12834648 T 20121001