

Title (en)
ARC QUENCHING SYSTEM

Title (de)
LICHTBOGEN-LÖSCHVORRICHTUNG

Title (fr)
DISPOSITIF D'EXTINCTION D'ARC

Publication
EP 1683173 A1 20060726 (DE)

Application
EP 04798170 A 20041105

Priority
• EP 2004052831 W 20041105
• DE 10352934 A 20031111

Abstract (en)
[origin: WO2005048282A1] The aim of the invention is to create an arc quenching system for a switching device (1), which ensures low heat build-up and fast quenching of an arc (11) using simple means. Said aim is achieved by providing a current conducting path (13) which comprises an electrically conducting passage to an additional arc guide rail (10) so as to form a conductor loop (10, 13) and is electrically insulated relative to a pair of switching contacts (5, 6). The conductor loop (10,13) is not connected to the pair of switching contacts (5, 6) while being arranged in the area of an interrupter chamber (12) such that a current (I) which drives the arc (11) into the arcing chamber (8) is conducted via the current conducting path (13) when the arc (11) commutates from one of the switching contacts (5; 6) to the additional arc guide rail (10).

IPC 8 full level
H01H 73/18 (2006.01); **H01H 9/44** (2006.01); **H01H 71/12** (2006.01)

CPC (source: EP)
H01H 9/44 (2013.01); **H01H 71/121** (2013.01); **H01H 73/18** (2013.01)

Cited by
US10600588B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005048282 A1 20050526; AT E372583 T1 20070915; BR PI0416378 A 20070313; CN 100468600 C 20090311; CN 1879183 A 20061213; DE 10352934 A1 20050609; DE 10352934 B4 20051222; DE 502004004909 D1 20071018; EP 1683173 A1 20060726; EP 1683173 B1 20070905; ES 2291956 T3 20080301; NO 20062712 L 20060612; NO 331047 B1 20110919; PT 1683173 E 20071108

DOCDB simple family (application)
EP 2004052831 W 20041105; AT 04798170 T 20041105; BR PI0416378 A 20041105; CN 200480033044 A 20041105; DE 10352934 A 20031111; DE 502004004909 T 20041105; EP 04798170 A 20041105; ES 04798170 T 20041105; NO 20062712 A 20060612; PT 04798170 T 20041105