

Title (en)  
HIGH-CURRENT SWITCH

Title (de)  
HOCHSTROMSCHALTER

Title (fr)  
INTERRUPTEUR POUR COURANT FORT

Publication  
**EP 2780920 B1 20151014 (DE)**

Application  
**EP 12751004 A 20120810**

Priority  
• DE 102011118894 A 20111118  
• EP 2012003430 W 20120810

Abstract (en)  
[origin: CA2855813A1] The invention relates to a high-current switch (1) comprising a first fixed contact (2), a second fixed contact spaced apart from the first fixed contact (3), and at least one contact bridge (4) that is movable relative to the two fixed contacts. Furthermore, an advancing device is provided for transferring the contact bridge (4) from an open position in which the two fixed contacts (2, 3) are not connected to one another into a closed position in which the contact bridge connects the two fixed contacts electrically to one another. The advancing device is also provided for pressing the contact bridge in the closed position against the two fixed contacts. According to the invention, the advancing device is designed without springs, wherein the rigidity of the contact bridge and the advancing device in the direction of the pressing force corresponds to a value of at least 50 000 kNmm<sup>2</sup>, and wherein the lowest natural frequency of the system consisting of the contact bridge and the advancing device in the direction of the pressing force is greater than 2000 Hz.

IPC 8 full level  
**H01H 1/20** (2006.01); **H01H 3/40** (2006.01); **H01H 1/50** (2006.01); **H01H 3/24** (2006.01)

CPC (source: EP KR US)  
**H01H 1/20** (2013.01 - KR); **H01H 1/2025** (2013.01 - EP US); **H01H 1/50** (2013.01 - KR); **H01H 1/502** (2013.01 - US); **H01H 3/24** (2013.01 - KR); **H01H 3/40** (2013.01 - EP KR US); **H01H 31/02** (2013.01 - KR); **H01H 31/24** (2013.01 - KR); **H01H 1/50** (2013.01 - EP US); **H01H 3/24** (2013.01 - EP US); **H01H 2001/2033** (2013.01 - EP US); **H01H 2227/032** (2013.01 - US)

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)  
**DE 102011118894 B3 20130131**; AU 2012339237 A1 20140619; AU 2012339237 B2 20150219; BR 112014011926 A2 20170530; CA 2855813 A1 20130523; CN 104170039 A 20141126; EP 2780920 A1 20140924; EP 2780920 B1 20151014; ES 2553858 T3 20151214; IN 4399CHN2014 A 20150904; JP 2015502004 A 20150119; JP 5935194 B2 20160615; KR 20140093718 A 20140728; PL 2780920 T3 20160331; RU 2014121678 A 20151227; RU 2583763 C2 20160510; US 2014353136 A1 20141204; WO 2013071987 A1 20130523; ZA 201403949 B 20150826

DOCDB simple family (application)  
**DE 102011118894 A 20111118**; AU 2012339237 A 20120810; BR 112014011926 A 20120810; CA 2855813 A 20120810; CN 201280067357 A 20120810; EP 12751004 A 20120810; EP 2012003430 W 20120810; ES 12751004 T 20120810; IN 4399CHN2014 A 20140613; JP 2014541547 A 20120810; KR 20147016541 A 20120810; PL 12751004 T 20120810; RU 2014121678 A 20120810; US 201214358010 A 20120810; ZA 201403949 A 20140529