

Title (en)
CURVE PROFILE SWITCH

Title (de)
KURVENPROFILSCHALTER

Title (fr)
COMMUTATEUR A PROFIL DE COURBE

Publication
EP 1859463 A1 20071128 (DE)

Application
EP 06725036 A 20060314

Priority
• EP 2006060680 W 20060314
• DE 102005013231 A 20050318

Abstract (en)
[origin: WO2006097457A1] The invention relates to a device (1) for switching electric alternating current comprising an extinguishing contact assembly (2) for putting the device (1) under current and for extinguishing an electric arc occurring during switching off, a disconnection contact assembly in-series connected with respect to the extinguishing contact assembly (2) for providing a required dielectric strength and a drive for initiating a switching movement which is passed to the extinguishing contact assembly (2) by a drive kinematics (6,7,8,9,10,21). The aim of said invention is to develop a device having a simple structural design and devoid of the motion of mechanically sensitive parts. For this purpose, the drive kinematics has a an extinguishing curve profile (8) and a separation curve profile (17) arranged on at least one cam disc (10,20) rotatably connected to the drive shaft (21) of said drive kinematics, wherein at least one contact of the extinguishing contact assembly (2) is mechanically coupled with an extinguishing contact pin (7) adjacent to the extinguishing curve profile (8) and at least one contact of the disconnection contact assembly (11) is mechanically coupled with a disconnection contact pin (16) adjacent to the separation curve profile (17)

IPC 8 full level
H01H 3/42 (2006.01); **H01H 33/666** (2006.01)

CPC (source: EP)
H01H 33/127 (2013.01); **H01H 33/6661** (2013.01); **H01H 3/42** (2013.01); **H01H 31/003** (2013.01)

Citation (search report)
See references of WO 2006097457A1

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

DOCDB simple family (publication)
DE 102005013231 B3 20060921; CN 101142648 A 20080312; EP 1859463 A1 20071128; RU 2007138644 A 20090427;
WO 2006097457 A1 20060921

DOCDB simple family (application)
DE 102005013231 A 20050318; CN 200680008797 A 20060314; EP 06725036 A 20060314; EP 2006060680 W 20060314;
RU 2007138644 A 20060314