

Title (en)

TAP CHANGER AND VACUUM SWITCHING TUBE FOR SUCH A TAP CHANGER

Title (de)

STUFENSCHALTER UND VAKUUMSCHALTRÖHRE FÜR EINEN SOLCHEN STUFENSCHALTER

Title (fr)

CHANGEUR DE PRISES ET AMPOULE À VIDE POUR UN TEL CHANGEUR DE PRISES

Publication

EP 2617048 B1 20141217 (DE)

Application

EP 11754298 A 20110902

Priority

- DE 102010045901 A 20100917
- EP 2011004433 W 20110902

Abstract (en)

[origin: WO2012034653A1] The invention relates to a tap changer for switching among winding taps of a step transformer without interruption, wherein two load branches are provided for each phase to be switched and each load branch has a vacuum switching contact that acts as a main contact and, in parallel therewith, at least one series circuit of a transition resistor and a further vacuum switching contact. At least two vacuum switching contacts of each load branch are structurally combined to form a single vacuum switching tube having two separate movable contacts that can be activated independently of each other and a common fixed contact.

IPC 8 full level

H01H 9/00 (2006.01); **H01F 29/04** (2006.01); **H01H 33/16** (2006.01); **H01H 33/664** (2006.01)

CPC (source: EP KR US)

H01F 29/04 (2013.01 - EP KR US); **H01H 9/00** (2013.01 - KR); **H01H 9/0027** (2013.01 - EP US); **H01H 9/0038** (2013.01 - EP US); **H01H 33/16** (2013.01 - EP KR US); **H01H 33/664** (2013.01 - KR); **H01H 33/6647** (2013.01 - EP 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 102010045901 A1 20120322; **DE 102010045901 B4 20121227**; BR 112013002648 A2 20160614; CN 103119679 A 20130522; CN 103119679 B 20160210; EP 2617048 A1 20130724; EP 2617048 B1 20141217; ES 2532894 T3 20150401; HK 1186291 A1 20140307; JP 2013539221 A 20131017; KR 20130105825 A 20130926; US 2013220782 A1 20130829; US 9165726 B2 20151020; WO 2012034653 A1 20120322

DOCDB simple family (application)

DE 102010045901 A 20100917; BR 112013002648 A 20110902; CN 201180044422 A 20110902; EP 11754298 A 20110902; EP 2011004433 W 20110902; ES 11754298 T 20110902; HK 13113636 A 20131206; JP 2013528544 A 20110902; KR 20137005903 A 20110902; US 201113811757 A 20110902