

Title (en)
TAP CHANGER AND VACUUM INTERRUPTER FOR SUCH A TAP CHANGER

Title (de)
STUFENSCHALTER UND VAKUUMSCHALTROHRE FÜR EINEN SOLCHEN STUFENSCHALTER

Title (fr)
COMMUTATEUR À GRADINS ET TUBE DE COMMUTATION SOUS VIDE POUR UN TEL COMMUTATEUR À GRADINS

Publication
EP 2695177 B1 20160518 (DE)

Application
EP 12707541 A 20120302

Priority
• DE 102011015922 A 20110402
• EP 2012053587 W 20120302

Abstract (en)
[origin: WO2012136423A1] The invention relates to a tap changer for the interruption-free switchover between winding taps of a tap-changing transformer. Furthermore, the present invention relates to a novel vacuum interrupter which is particularly suitable for such a tap changer. The tap changer according to the invention is based on the general concept of combining in each case one main contact (V1) and one mechanical switching means (U1), connected in series therewith, of a first load branch and an additional resistive contact (V3) of a second load branch in only a single vacuum interrupter (1) with a common housing (5). The vacuum interrupter (1) according to the invention is furthermore based on the general inventive concept of replacing the functionalities of two required vacuum interrupters in accordance with the prior art and an additional mechanical switching means with a single vacuum interrupter (1) according to the invention by virtue of combining the design of a vacuum interrupter (1) with a plurality of moveable contact systems (I, II, III), which are arranged in separate vacuum interrupter chambers (2, 3, 4) which are sealed with respect to one another.

IPC 8 full level
H01H 9/00 (2006.01); **H01F 29/04** (2006.01); **H01H 33/664** (2006.01); **H01H 33/16** (2006.01); **H01H 33/666** (2006.01)

CPC (source: EP KR US)
H01F 29/04 (2013.01 - EP KR US); **H01H 9/00** (2013.01 - KR); **H01H 9/0038** (2013.01 - EP US); **H01H 33/664** (2013.01 - KR); **H01H 33/6647** (2013.01 - EP US); **H01H 33/16** (2013.01 - EP US); **H01H 2033/6668** (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)
WO 2012136423 A1 20121011; BR 112013022214 A2 20170523; CN 103460324 A 20131218; CN 103460324 B 20160302; EP 2695177 A1 20140212; EP 2695177 B1 20160518; ES 2586983 T3 20161019; HK 1189707 A1 20140613; JP 2014514748 A 20140619; KR 20140009389 A 20140122; US 2014085028 A1 20140327; US 8947188 B2 20150203

DOCDB simple family (application)
EP 2012053587 W 20120302; BR 112013022214 A 20120302; CN 201280015618 A 20120302; EP 12707541 A 20120302; ES 12707541 T 20120302; HK 14102315 A 20140307; JP 2014501511 A 20120302; KR 20137024799 A 20120302; US 201214000435 A 20120302