

Title (en)

STATIC ON-LOAD TAP CHANGER FOR TRANSFORMERS WITH DISCONTINUOUS REGULATION WINDINGS

Title (de)

STATISCHER LASTSTUFENSCHALTER FÜR TRANSFORMATOREN MIT DISKONTINUIERLICHEN REGELWICKLUNGEN

Title (fr)

DISPOSITIF DE CHANGEMENT STATIQUE DE PRISES EN CHARGE POUR DES TRANSFORMATEURS À ENROULEMENTS DE RÉGULATION DISCONTINUS

Publication

**EP 3780038 A4 20220126 (EN)**

Application

**EP 19814374 A 20190530**

Priority

- ES 201830549 A 20180606
- ES 2019070363 W 20190530

Abstract (en)

[origin: EP3780038A1] This document describes an on-load tap-changer device based on solid-state switches for applications that require dynamic voltage regulation. The tap changer of the invention is provided with a central control unit that determines the optimal operating setpoint as a function of the information supplied by the local control units associated with each of the phases. For this purpose, the local control units are linked to a series of voltage and current sensors that determine the operating status of the tap changer. In addition, these local control units actuate the control signals of the solid-state switches to select the optimal tap determined by the central controller.

IPC 8 full level

**H01F 29/04** (2006.01); **G05F 1/20** (2006.01); **H01H 9/00** (2006.01); **H02P 13/06** (2006.01)

CPC (source: EP ES)

**G05F 1/20** (2013.01 - EP); **H01F 29/04** (2013.01 - EP); **H01H 9/0005** (2013.01 - EP ES); **H01H 9/0016** (2013.01 - ES)

Citation (search report)

- [A] US 2013249528 A1 20130926 - BISKOPING MATTHIAS [DE], et al
- [A] EP 3226267 A1 20171004 - WANG HAI [CN]
- See also references of WO 2019234271A1

Cited by

ES2950896A1; WO2022229056A1

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)

**EP 3780038 A1 20210217**; **EP 3780038 A4 20220126**; **EP 3780038 B1 20230816**; **EP 3780038 C0 20230816**; ES 2734601 A1 20191210; ES 2734601 B2 20200708; ES 2964632 T3 20240408; WO 2019234271 A1 20191212

DOCDB simple family (application)

**EP 19814374 A 20190530**; ES 19814374 T 20190530; ES 201830549 A 20180606; ES 2019070363 W 20190530