

Title (en)

METHOD FOR MONITORING A STEP SWITCH

Title (de)

VERFAHREN ZUR ÜBERWACHUNG EINES STUFENSCHALTERS

Title (fr)

PROCÉDÉ DESTINÉ À LA SURVEILLANCE D'UN COMMUTATEUR À GRADINS

Publication

**EP 2839490 A1 20150225 (DE)**

Application

**EP 13709921 A 20130318**

Priority

- DE 102012103261 A 20120416
- EP 2013055539 W 20130318

Abstract (en)

[origin: WO2013156233A1] The invention relates to a method for monitoring an on-load tap changer according to the known "windowing technique," wherein for synchronization, the current (I) on the diverter switch is continuously detected, the effective value (I<sub>eff</sub>) is calculated, which in turn is differentiated. The corresponding point in time, at which the maximum or minimum of the differentiated value occurs, is evaluated to be the moment for the diverter switch leap (t<sub>LU</sub>), and produces the synchronization impulse.

IPC 8 full level

**H01H 9/00** (2006.01)

CPC (source: EP RU US)

**G05F 1/14** (2013.01 - EP US); **H01H 9/0005** (2013.01 - EP US); **H01H 9/00** (2013.01 - RU); **H01H 2009/0061** (2013.01 - EP US)

Citation (search report)

See references of WO 2013156233A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102013102709 A1 20131017; DE 102013102709 B4 20150416**; CN 104246948 A 20141224; CN 104246948 B 20170315; EP 2839490 A1 20150225; EP 2839490 B1 20160316; ES 2576352 T3 20160707; HK 1202980 A1 20151009; JP 2015516793 A 20150611; JP 6117338 B2 20170419; KR 102048324 B1 20191125; KR 20150008113 A 20150121; RU 2014145871 A 20160610; RU 2629566 C2 20170830; UA 112794 C2 20161025; US 2015153749 A1 20150604; US 9189000 B2 20151117; WO 2013156233 A1 20131024; ZA 201406511 B 20151125

DOCDB simple family (application)

**DE 102013102709 A 20130318**; CN 201380020229 A 20130318; EP 13709921 A 20130318; EP 2013055539 W 20130318; ES 13709921 T 20130318; HK 15103257 A 20150331; JP 2015506145 A 20130318; KR 20147032013 A 20130318; RU 2014145871 A 20130318; UA A201411209 A 20130318; US 201314382472 A 20130318; ZA 201406511 A 20140904