

Title (en)

POWER SWITCHING CONTROL DEVICE AND CLOSING CONTROL METHOD THEREOF

Title (de)

LEISTUNGSSCHALTUNGSTEUERUNG UND SCHLISSSTEUERVERFAHREN DAFÜR

Title (fr)

DISPOSITIF DE COMMANDE DE LA COMMUTATION ÉLECTRIQUE ET PROCÉDÉ DE COMMANDE DE LA FERMETURE DE CELUI-CI

Publication

**EP 2665078 A4 20141126 (EN)**

Application

**EP 11855640 A 20110111**

Priority

JP 2011050273 W 20110111

Abstract (en)

[origin: EP2665078A1] A power switching control device and a closing control method of the power switching control device that can suppress generation of a transient voltage or current that is possibly caused by a mismatch between a gap-voltage estimate value after interrupting a current and an actual gap voltage is obtained. It is estimated that a load-side voltage estimate value at the next closing is zero when a predetermined time determined based on an attenuation time constant of a residual voltage on a power transmission line (3) in advance passes since a current interruption time, and when the load-side voltage at and after the current interruption time is a direct-current signal and the load-side voltage shows a behavior of converging into zero at a speed equal to or higher than a constant speed at and after the current interruption time.

IPC 8 full level

**H01H 33/59** (2006.01); **H01H 9/56** (2006.01)

CPC (source: EP)

**H01H 9/563** (2013.01)

Citation (search report)

- [AD] JP 2003168335 A 20030613 - MITSUBISHI ELECTRIC CORP
- [A] US 6172863 B1 20010109 - ITO HIROKI [JP], et al
- [A] US 2008269952 A1 20081030 - TSUTADA HIROYUKI [JP], et al
- [A] EP 1098333 A2 20010509 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2012095942A1

Cited by

CN105706208A; US11437205B2; WO2020136545A1

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 2665078 A1 20131120; EP 2665078 A4 20141126; EP 2665078 B1 20151216**; CA 2824435 A1 20120719; CA 2824435 C 20160621; JP 4818488 B1 20111116; JP WO2012095942 A1 20140609; WO 2012095942 A1 20120719

DOCDB simple family (application)

**EP 11855640 A 20110111**; CA 2824435 A 20110111; JP 2011050273 W 20110111; JP 2011524074 A 20110111