

Title (en)

ELECTRONIC ARCHITECTURE FOR CONTROLLING A DC/AC VOLTAGE CONVERTER

Title (de)

ELEKTRONISCHE ARCHITEKTUR ZUR STEUERUNG EINES GLEICHSTROM-WECHSELSTROM-SPANNUNGSWANDLERS

Title (fr)

ARCHITECTURE ELECTRONIQUE POUR LA COMMANDE D'UN CONVERTISSEUR DE TENSION CONTINU/ALTERNATIF

Publication

EP 2988968 A2 20160302 (FR)

Application

EP 14729390 A 20140424

Priority

- FR 1353871 A 20130426
- FR 2014050998 W 20140424

Abstract (en)

[origin: WO2014174221A2] Electronic architecture (3) for controlling a DC/AC voltage converter (2), said converter (2) comprising a plurality of arms mounted in parallel, each arm comprising two controllable switching cells (21), in series and separated by a mid-point, the arms being paired in H-bridges (20), the architecture (3) comprising: - a main control unit (36), configured to communicate through a potential barrier (61) with a remote control unit (35), and - a plurality of secondary control units (37), each secondary control unit (37) being dedicated to controlling a respective H-bridge (20), and comprising: - a processing unit (40) for processing the information received from the main control unit (36), and - a monitoring unit (41) for monitoring the controllable switching cells (21) of said H-bridge (20), said monitoring unit (41) being configured to modify the state of all or some of said switching cells (21) of said H-bridge (20) at least on the basis of information received from the corresponding processing unit (40).

IPC 8 full level

B60L 11/18 (2006.01); **H02M 7/5387** (2007.01)

CPC (source: EP US)

B60L 3/003 (2013.01 - EP US); **B60L 3/0084** (2013.01 - EP US); **B60L 3/0092** (2013.01 - EP); **B60L 7/14** (2013.01 - EP US); **B60L 15/007** (2013.01 - EP US); **B60L 15/20** (2013.01 - EP US); **B60L 50/40** (2019.01 - EP US); **B60L 50/51** (2019.01 - EP US); **B60L 53/14** (2019.01 - EP US); **B60L 58/21** (2019.01 - EP US); **G06F 1/28** (2013.01 - US); **G06F 1/30** (2013.01 - US); **H02M 7/53873** (2013.01 - EP US); **B60L 2210/10** (2013.01 - EP US); **B60L 2210/40** (2013.01 - EP US); **B60L 2210/42** (2013.01 - EP US); **B60L 2220/14** (2013.01 - EP US); **B60L 2240/421** (2013.01 - EP US); **B60L 2240/425** (2013.01 - EP US); **B60L 2240/525** (2013.01 - EP US); **H02M 1/0012** (2021.05 - EP US); **Y02T 10/64** (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 10/72** (2013.01 - EP US); **Y02T 90/12** (2013.01 - US); **Y02T 90/14** (2013.01 - EP US); **Y02T 90/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2014174221A2

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)

WO 2014174221 A2 20141030; **WO 2014174221 A3 20150409**; CN 105283344 A 20160127; CN 105283344 B 20180925; EP 2988968 A2 20160302; FR 3005222 A1 20141031; FR 3005222 B1 20150417; JP 2016518101 A 20160620; JP 2020061936 A 20200416; KR 102202514 B1 20210112; KR 20160002967 A 20160108; US 10126800 B2 20181113; US 2016077566 A1 20160317

DOCDB simple family (application)

FR 2014050998 W 20140424; CN 201480030186 A 20140424; EP 14729390 A 20140424; FR 1353871 A 20130426; JP 2016509533 A 20140424; JP 2019235105 A 20191225; KR 20157032999 A 20140424; US 201414786311 A 20140424