

Title (en)  
INSTALLATION FOR RETURNING ENERGY TO AN ITEM OF EQUIPMENT TO BE SUPPLIED WITH ENERGY, IN PARTICULAR AN ELECTRIC VEHICLE

Title (de)  
ANLAGE ZUM ZURÜCKFÜHREN VON ENERGIE ZU EINER EINHEIT EINER MIT ENERGIE ZU VERSORGENDEN EINRICHTUNG, INSBESONDERE EINES ELEKTROFAHRZEUGS

Title (fr)  
INSTALLATION DE RESTITUTION D'ÉNERGIE À UN ÉQUIPEMENT À ALIMENTER EN ÉNERGIE, NOTAMMENT UN VÉHICULE ÉLECTRIQUE

Publication  
**EP 3000163 A2 20160330 (FR)**

Application  
**EP 14725187 A 20140521**

Priority  
• FR 1354583 A 20130522  
• EP 2014060404 W 20140521

Abstract (en)  
[origin: WO2014187844A2] The invention relates to an installation (10) for returning energy to an item of equipment, comprising at least one photovoltaic cell (20A-20D; 22A-22B), at least one energy provision device (12) comprising means of electrical connection (14), at least one energy storage assembly (18A, 18B), linked on the one hand to at least one of the photovoltaic cells and on the other hand to at least one of the energy provision devices so as to provide it with the electrical energy, and an inverter (28, 30) interposed between at least one of the energy storage assemblies and at least one of the energy provision devices, so that the electricity transmitted to the provision device is in the form of alternating current. The invention also relates to a charging module comprising at least one energy storage assembly and at least one inverter.

IPC 8 full level  
**H02J 7/35** (2006.01)

CPC (source: CN EP US)  
**B60L 1/08** (2013.01 - EP US); **B60L 50/51** (2019.01 - EP US); **B60L 53/18** (2019.01 - EP US); **B60L 53/302** (2019.01 - EP US); **B60L 53/51** (2019.01 - EP US); **B60L 58/22** (2019.01 - EP US); **B60L 58/27** (2019.01 - EP US); **H02J 3/387** (2023.08 - CN); **H02J 7/35** (2013.01 - CN EP US); **H02J 9/061** (2013.01 - US); **H02M 3/04** (2013.01 - US); **H02M 7/44** (2013.01 - US); **B60L 2200/18** (2013.01 - EP US); **B60L 2210/10** (2013.01 - EP US); **B60L 2210/30** (2013.01 - EP US); **B60L 2240/545** (2013.01 - EP US); **B60L 2240/547** (2013.01 - EP US); **B60L 2240/549** (2013.01 - EP US); **Y02E 10/56** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 10/72** (2013.01 - EP US); **Y02T 10/92** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP US); **Y02T 90/14** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014187844A2

Citation (examination)  
WO 2008138016 A1 20081113 - AMERICAN POWER CONV CORP [US], et al

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 2014187844 A2 20141127; WO 2014187844 A3 20150924**; CA 2913071 A1 20141127; CN 105379059 A 20160302; EP 3000163 A2 20160330; FR 3006122 A1 20141128; FR 3006122 B1 20181019; HK 1222743 A1 20170707; JP 2016520281 A 20160711; KR 20160010871 A 20160128; US 2016111915 A1 20160421

DOCDB simple family (application)  
**EP 2014060404 W 20140521**; CA 2913071 A 20140521; CN 201480037313 A 20140521; EP 14725187 A 20140521; FR 1354583 A 20130522; HK 16110905 A 20160914; JP 2016514386 A 20140521; KR 20157035687 A 20140521; US 201414892988 A 20140521