



*Ministero dello Sviluppo Economico*  
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*Ufficio Italiano Brevetti e Marchi*

ATTESTATO DI BREVETTO PER INVENZIONE INDUSTRIALE

N. 0001409341

Il presente brevetto viene concesso per l'invenzione della domanda sotto specificata:

num. domanda	anno	C.C.I.A.A.	data pres. domanda	classifica
000142	2011	PISA	19/12/2011	F03D

TITOLARE/I BI.NAV. RESEARCH AND DEVELOPMENT S.R.L.  
LA SPEZIA

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TITOLO APPARATO DI TRASFORMAZIONE DI ENERGIA PRODOTTA DA FONTI  
RINNOVABILI E METODO DI GESTIONE RELATIVO

INVENTORE/I RAVAGNAN GIANPIETRO  
BIANCO VINCENZO



Roma, 31/07/2014

IL DIRIGENTE  
Dr.ssa Loredana Guglielmetti



## 235. (WO2013093654) STAND ALONE COMBINED APPARATUS FOR ELECTRIC POWER HARVESTING AND POTABLE WATER TREATMENT

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## Latest bibliographic data on file with the International Bureau

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**Pub. No.:** WO/2013/093654   **International Application No.:** PCT/IB2012/052438  
**Publication Date:** 27.06.2013   **International Filing Date:** 15.05.2012

**IPC:** **F03D 9/00** (2006.01)

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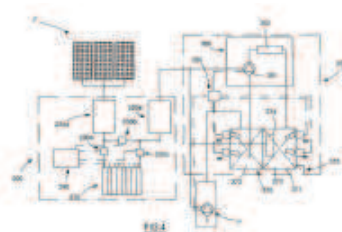
**Priority Data:** PI2011A000142 19.12.2011 IT

**Title** (EN) STAND ALONE COMBINED APPARATUS FOR ELECTRIC POWER HARVESTING AND POTABLE WATER TREATMENT

(FR) APPAREIL COMBINÉ AUTONOME POUR COLLECTE D'ÉNERGIE ÉLECTRIQUE ET TRAITEMENT D'EAU POTABLE

**Abstract:** (EN) A stand alone type combined apparatus for power production from renewable sources and for water treatment, includes inverters (220e), charge controllers (230a, 230b, 230c), storing batteries (210) and a water treating system (350) supplied continuously by the power produced from the discontinuous renewable sources connected to the apparatus (F). Besides the possibility of having photovoltaic modules integrated therein, the apparatus can also be connected to other types of discontinuous renewable sources to supply power in a continuous way, 24 hours a day, to the water treatment system and a plurality of other users, such as small engines, home users, industrial users. The combined apparatus is included in a container structure (301), which is easy to install and transport.

(FR) L'invention porte sur un appareil combiné du type autonome pour la production d'énergie à partir de sources renouvelables et pour le traitement d'eau, lequel appareil comprend des onduleurs, des dispositifs de commande de charge, des batteries de stockage et un système de traitement d'eau alimenté de façon continue par l'énergie produite à partir des sources renouvelables discontinues connectées à l'appareil. En dehors de la possibilité d'avoir des modules photovoltaïques intégrés à l'intérieur de celui-ci, l'appareil peut également être connecté à d'autres types de sources renouvelables discontinues pour fournir de l'énergie d'une façon continue, 24 heures par jour, au système de traitement d'eau et à une pluralité d'autres utilisateurs, tels que des petits moteurs, des utilisateurs individuels, et des utilisateurs industriels. L'appareil combiné est inclus dans une structure de conteneur, qui est facile à installer et à transporter.



**Designated States:** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.  
 African Regional Intellectual Property Org. (ARIPO) (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW)  
 Eurasian Patent Organization (EAPO) (AM, AZ, BY, KG, KZ, RU, TJ, TM)  
 European Patent Office (EPO) (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR)  
 African Intellectual Property Organization (OAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Publication Language:** English (EN)

**Filing Language:** Italian (IT)

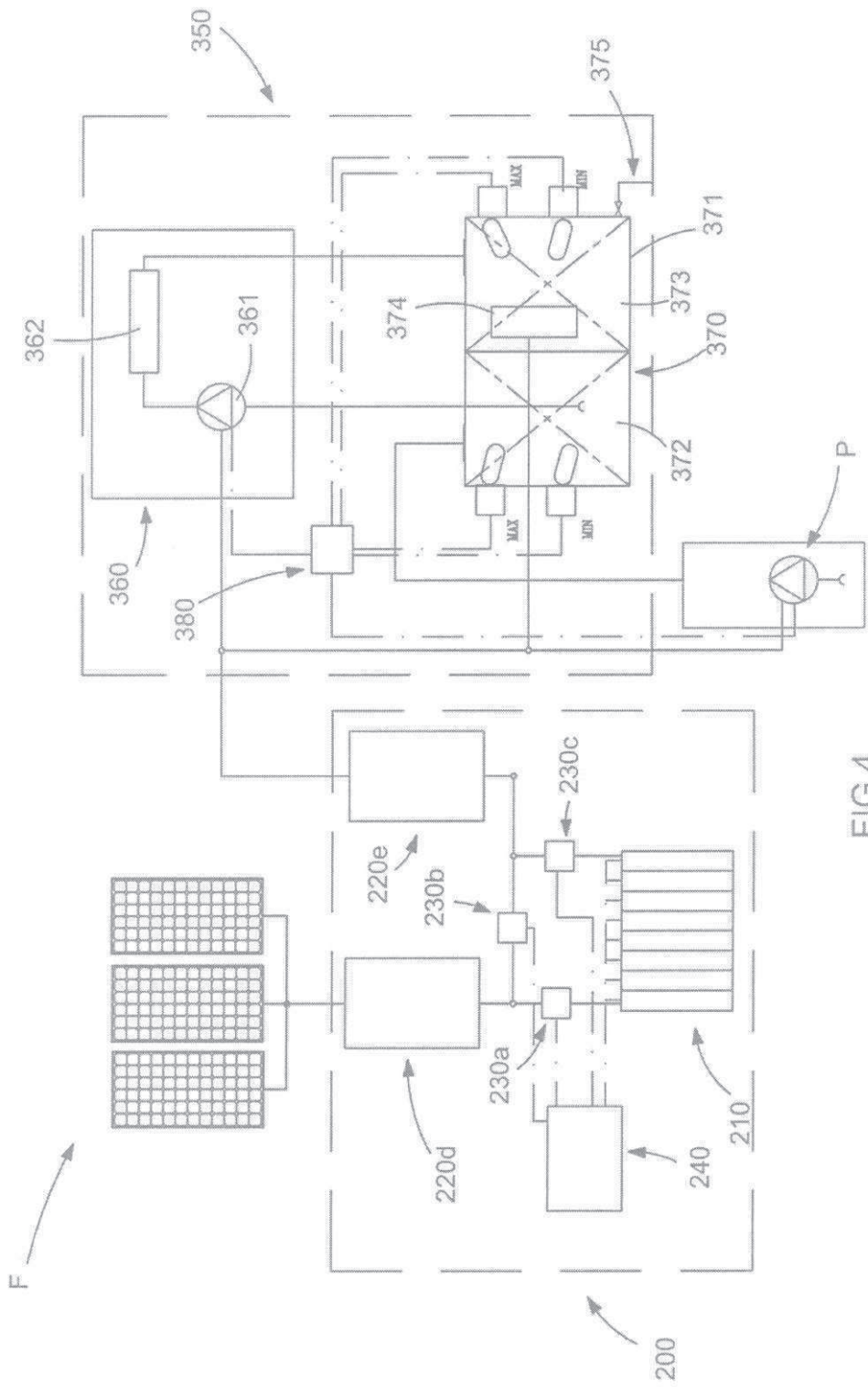


FIG.4