

Title (en)

DEVICE AND METHOD TO TRANSFORM WAVE ENERGY INTO ELECTRIC ENERGY

Title (de)

VORRICHTUNG UND VERFAHREN ZUR UMWANDLUNG VON WELLENENERGIE IN ELEKTRISCHE ENERGIE

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR TRANSFORMER L'ÉNERGIE DES VAGUES EN ÉNERGIE ÉLECTRIQUE

Publication

EP 2686544 A1 20140122 (EN)

Application

EP 12757693 A 20120312

Priority

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- SE 2012050273 W 20120312

Abstract (en)

[origin: WO2012125111A1] A method and a device for transforming energy of water waves into electric energy by providing a closed container (2) arranged to float on a water surface, with its longitudinal axis mainly in a transmission axis of the waves occurring on the water surface, where the container (2) is supplied with compartments (5a, 6a) that can communicate with each other and said compartments located one at each end of the container (2), and wherein the container (2) is filled with a liquid (3) to a predetermined aliquot, whereby when one of said compartments (5a, 6a) at one end of the container (2), due to wave motion is at a predetermined higher level than the second compartment (5a, 6a) in the other end of the container (2), liquid (3) which is located in the higher compartment (5a, 6a) flows over to the lower situated compartment (5a, 6a) and then passes a turbine (7) in a flow path which, because of the container's (2) inclination, connects the two compartments (5a, 6a) whereby the turbine (7) is rotated and electrical energy being generated in a generator (12) coupled to said turbine (7) and wherein said flow movement is arranged mainly to take place in a vertical level through the container's longitudinal axis.

IPC 8 full level

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