Title (en)

MARINE SYSTEM FOR THE GENERATION OF ELECTRIC ENERGY FROM THE PITCH OF FLOATING BODIES INDUCED BY WAVE MOTION

Title (de

SCHIFFSSYSTEM ZUR ERZEUGUNG VON ELEKTRISCHER ENERGIE AUS DER DURCH WELLENBEWEGUNG INDUZIERTEN NEIGUNG VON SCHWIMMKÖRPERN

Title (fr)

SYSTÈME MARIN POUR LA PRODUCTION D'ÉNERGIE ÉLECTRIQUE À PARTIR DU PAS DE CORPS FLOTTANTS INDUITS PAR LE MOUVEMENT DES VAGUES

Publication

EP 4077910 A1 20221026 (EN)

Application

EP 19861245 A 20191218

Priority

IT 2019000118 W 20191218

Abstract (en)

[origin: WO2021124361A1] The present invention relates to a marine system (1) for the generation of energy from the pitch of floating bodies induced by the wave motion, comprising: a marine installation (10), which has at least one emerged portion (11) with respect to the sea surface (M) and consists either of a structure firmly fixed to the seabed (F) or of a semi-submersible structure moored to the seabed; one or more WEC devices (20), each of which has a floating hull (21) and is suitable for generating electricity from the pitch motion of its floating hull (21) induced by the wave motion. The floating hull (21) of each of said one or more WEC devices is connected to the emerged portion (11) of said marine installation by means of a respective linkage arm (30), which is movably connected: at a first end portion (31) thereof to the emerged portion (11) of said marine installation (10) by means of a first articulated joint (40) which allows said linkage arm (30) to follow the vertical movements given by the composition of the heave and pitch motions of the floating hull (21) connected thereto; and at a second end portion (32) thereof to said floating hull (21) by means of a second articulated joint (50) which leaves free at least the pitch and yaw motions of said floating hull (21) with respect to said linkage arm (30).

IPC 8 full level

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Citation (search report)

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