Title (en)

POWER TAKE-OFF DEVICE FOR USE IN A WAVE ENERGY CONVERTER

Title (de)

ABTRIEB ZUR VERWENDUNG FÜR EINEN WELLENENERGIEWANDLER

Title (fr)

DISPOSITIF DE PRISE DE FORCE POUR UTILISATION DANS UN CONVERTISSEUR D'ÉNERGIE MARÉMOTRICE

Publication

EP 3850211 A4 20220928 (EN)

Application

EP 19860982 A 20190916

Priority

- SE 1851087 A 20180914
- SE 2019050869 W 20190916

Abstract (en)

[origin: WO2020055320A1] A power take-off device (100) for use in a wave energy converter having a prime mover (404), the power take-off device having a PTO frame (110). A direct drive motor (14) mounted to the PTO frame (110) and electrically connected to an energy storage (16), a means (12) for converting linear motion from the movements of the prime mover (404) to rotary motion to the direct drive motor (14), and control means (206) adapted to control the direct drive motor (14) to apply a torque to the means for converting linear motion of the prime mover (404) into rotary motion to control the power take-off force by means of storing and retrieving energy in the energy storage (16) while outputting constant power to an output cable of the power take-off device. A wave energy converter and a wave energy converter system are also provided.

IPC 8 full level

E02B 9/08 (2006.01); **F03B 13/18** (2006.01); **F16H 25/18** (2006.01); **F16H 33/02** (2006.01); **H02P 9/04** (2006.01)

CPC (source: EP)

F03B 13/1845 (2013.01); **F03B 13/186** (2013.01); E02B 9/08 (2013.01); F05B 2220/7066 (2013.01); F05B 2260/421 (2013.01); F16H 25/18 (2013.01); F16H 33/02 (2013.01); H02P 9/04 (2013.01); Y02E 10/30 (2013.01)

Citation (search report)

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- [XI] IT MO20060156 A1 20071119 - BASCHIERI MAURO
- [A] EP 2322792 A1 20110518 - ZHANG YI [CN]
- See references of WO 2020055320A1

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

DOCDB simple family (publication)

WO 2020055320 A1 20200319; EP 3850211 A1 20210721; EP 3850211 A4 20220928

DOCDB simple family (application)

SE 2019050869 W 20190916; EP 19860982 A 20190916