

Title (en)
A WAVE ENERGY CONVERTER

Title (de)
WELLENENERGIEWANDLER

Title (fr)
CONVERTISSEUR DE L'ÉNERGIE DES VAGUES

Publication
EP 2307705 A1 20110413 (EN)

Application
EP 09787406 A 20090716

Priority
• IE 2009000049 W 20090716
• US 12975608 P 20080717

Abstract (en)
[origin: WO2010007607A1] A wave energy harnessing converter (1) has a tube (3) which floats on the sea. A water inlet (2) delivers water to the tube, and an air inlet (2) delivers air to the tube (3). The tube has sufficient buoyancy and flexibility to float on the water and conform to the shape of waves when the tube extends substantially in the direction of travel of the waves, causing water in the tube to be conveyed from the inlet and to be pressurised and the air to be compressed in a series of moving air pockets. The tube is reinforced to minimise energy losses through distortion or elongation. A converter output section (10) for receiving water and compressed air from the tube (3) for providing energy.

IPC 8 full level
F03B 13/18 (2006.01); **F03B 13/20** (2006.01); **F03B 13/22** (2006.01)

CPC (source: EP US)
F03B 13/188 (2013.01 - EP US); **F03B 13/20** (2013.01 - EP US); **F03B 13/22** (2013.01 - EP US); **Y02E 10/30** (2013.01 - EP US)

Citation (search report)
See references of WO 2010007607A1

Cited by
WO2013079582A1; WO2013079585A1

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2010007607 A1 20100121; EP 2307705 A1 20110413; US 2011116942 A1 20110519

DOCDB simple family (application)
IE 2009000049 W 20090716; EP 09787406 A 20090716; US 73743309 A 20090716