Title (en)
ENERGY RELEASE BUOYANT ACTUATOR

Title (de)
SCHWIMMENDER ENERGIEFREISETZUNGSBETÄTIGER

Title (fr)
ACTIONNEUR FLOTTANT À LIBÉRATION D'ÉNERGIE

Publication
EP 2417348 A4 20130904 (EN)

Application
EP 10761127 A 20100407

Priority
• AU 2010000398 W 20100407
• AU 2009901502 A 20090407

Abstract (en)
[origin: WO2010115241A1] A buoyant actuator (10) for use in apparatus (11) for harnessing wave energy in a body of water such as the ocean. The buoyant actuator (10) is deployed within the body of water (12) and is responsive to wave motion in the body of water. The buoyant actuator (10) comprises a body (101) incorporating a flow path along which water can flow, and a gate means (115) for controlling flow along the flow path. The gate means (115) comprising a plurality of closure elements configured as flaps (221) providing a barrier (222) across the flow path through the body (101). Each flap (221) is moveable into and out of a condition in which it cooperates with the other flaps (221) to provide the barrier (222). A latch mechanism (231) is provided for releasably retaining each flap (221) in the condition providing the barrier (222). The latch mechanism (231) comprises a magnetic coupling.

IPC 8 full level
F03B 13/18 (2006.01); **E02B 9/08** (2006.01); **F03B 15/00** (2006.01); **F03B 15/02** (2006.01)

CPC (source: EP KR US)
F03B 13/187 (2013.01 - EP KR US); **F03B 13/189** (2013.01 - EP KR US); **F03B 15/00** (2013.01 - EP KR US); F05B 2240/97 (2013.01 - KR); Y02E 10/30 (2013.01 - EP KR US)

Citation (search report)
• [XAI] WO 9832967 A1 19980730 - APPLIED RES & TECH [GB], et al
• [XI] US 5152674 A 19921006 - MARX ROBERT P [US]
• [A] WO 2008130295 A1 20081030 - SEABASED AB [SE], et al
• [A] EP 0594537 A1 19940427 - PREVISIC BRANISLAV [CH], et al
• [A] US 5411377 A 19950502 - HOUSER MICHAEL P [US], et al
• See references of WO 2010115241A1

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

DOCDB simple family (publication)
WO 2010115241 A1 20101014; AP 2011005967 A0 20111231; AP 3190 A 20150331; AU 2010234221 A1 20111117; BR PI1015294 A2 20160531; CA 2758989 A1 20101014; CN 102762847 A 20121031; CO 6450615 A2 20120531; EC SP11011438 A 20120229; EP 2417348 A1 20120215; EP 2417348 A4 20130904; IL 215540 A0 20111229; JP 2012522933 A 20120927; KR 20120042734 A 20120503; MX 2011010530 A 20120221; NZ 596019 A 20140829; PE 20121002 A1 20120801; US 2012141207 A1 20120607; ZA 201107911 B 20130130

DOCDB simple family (application)
AU 2010000398 W 20100407; AP 2011005967 A 20100407; AU 2010234221 A 20100407; BR PI1015294 A 20100407; CA 2758989 A 20100407; CN 201080026208 A 20100407; CO 11147739 A 20111101; EC SP11011438 A 20111107; EP 10761127 A 20100407; IL 21554011 A 20111004; JP 2012503834 A 20100407; KR 20117026549 A 20100407; MX 2011010530 A 20100407; NZ 59601910 A 20100407; PE 2011001769 A 20100407; US 201013263622 A 20100407; ZA 201107911 A 20111028