

Title (en)  
SUBMERGIBLE SLOPED ABSORPTION BARRIER WAVE ENERGY CONVERTER

Title (de)  
WELLENENERGIEWANDLER MIT VERSENKBARER GENEIGTER ABSORPTIONSBARRIERE

Title (fr)  
HOULOMOTRICE À BARRIÈRE D'ABSORPTION INCLINÉE SUBMERSIBLE

Publication  
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Application  
**EP 12827707 A 20120903**

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Abstract (en)  
[origin: WO2013033685A1] An ocean wave energy converter uses one or more buoyant elongated float(s) self orienting toward oncoming wave fronts and rnovably affixed to a motion stabilized controlled buoyancy frame by down sloping tracks constraining the wave induced motion of the float(s) to an upward and rearward motion as oncoming wave crests impact and lift the barrier(s) and downward and forward as subsequent wave troughs return it. Motion between the barrier(s) and the frame is resisted and energy captured by a programmable electric or hydraulic power take off system. Capture efficiency is further enhanced by adjusting float mass and buoyancy by controlling water entering or exiting cavities in the float(s), use of wave shoaling and focusing means, and adjusting the submerged depth and slope angle of the device with adjustable frame air-water ballast tanks which also allow total float submergence during severe sea states.

IPC 8 full level  
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