

Title (en)
SYSTEMS AND METHODS FOR TIDAL ENERGY CONVERSION AND ELECTRICAL POWER GENERATION USING A ROTATABLE DRAG PANEL

Title (de)
SYSTEME UND VERFAHREN ZUR GEZEITENENERGIEUMWANDLUNG UND ZUR ERZEUGUNG VON ELEKTRISCHER ENERGIE UNTER VERWENDUNG EINER DREHBAREN SCHLEPPPLATTE

Title (fr)
SYSTÈMES ET PROCÉDÉS DE CONVERSION D'ÉNERGIE MARÉMOTRICE ET DE PRODUCTION D'ÉNERGIE ÉLECTRIQUE À L'AIDE D'UN PANNEAU DE TRAÎNÉE ROTATIF

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Application
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US 2017030272 W 20170428

Abstract (en)
[origin: WO2018200005A1] Assemblies, systems, and methods are disclosed for generating energy from natural and renewable forces and, more particularly, to energy generation using tidal action. A tidal energy conversion assembly includes a displacement vessel coupled via an anchor cable to a directional converter and an electrical power generator on land. The displacement vessel includes a horizontally rotatable drag panel extending into the water to capture drag forces caused by the flow of water. The flow of water against the drag panel causes the displacement vessel to move laterally and pull on the anchor cable thus exerting a force on the directional converter. The directional converter converts this force into rotational energy that may be harnessed by the electrical power generator to generate electricity for consumption. The horizontally rotatable drag panel may be rotated to adjust the amount of electrical energy produced.

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Citation (search report)
See references of WO 2018200005A1

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