

Title (en)  
OFFSHORE WIRELESS POWER TRANSFER SYSTEM

Title (de)  
DRAHTLOSES OFFSHORE-STROMÜBERTRAGUNGSSYSTEM

Title (fr)  
SYSTÈME DE TRANSFERT D'ÉNERGIE SANS FIL EN HAUTE MER

Publication  
**EP 4214082 A1 20230726 (EN)**

Application  
**EP 21702096 A 20210111**

Priority  
IB 2021050162 W 20210111

Abstract (en)  
[origin: WO2022149001A1] The invention relates to an offshore wireless power transfer system for water vessels at least partially electrically driven comprising a primary interface coupled with a power source and a secondary interface coupled with the water vessel, the interfaces providing unidirectional or bidirectional power transfer which can be inductive, capacitive, and/or magnetodynamic. The primary interface can have connected power transfer sections which can be switchable. Inductive system can include inductive loops, capacitive system can include capacitive plates and magnetodynamic can include magnetic elements and loops. The system can be thermally managed. The interfaces can be buoyant or nonbuoyant, level adjustable. The power transfer can take place at about/under/above water level. The secondary interface can be mobile or coupled with a mobile device. The interfaces can include electrocomponents. The system can provide data transmissions, and be provided in a cloud-based communication system, a hydrogen powering system and a modular system.

IPC 8 full level  
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See references of WO 2022149001A1

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