

Title (en)

MARINE POWER SUPPLY SYSTEM AND DISTRIBUTION BUOY

Title (de)

MARINES STROMVERSORGUNGSSYSTEM UND VERTEILERBOJE

Title (fr)

SYSTÈME D'ALIMENTATION ÉLECTRIQUE MARIN ET BOUÉE DE DISTRIBUTION

Publication

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Application

EP 20855468 A 20200812

Priority

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Abstract (en)

[origin: WO2021034248A1] The invention relates to a power supply system for supplying at least electrical power to at least one moored, floating marine structure (101) and a buoy for use in this system. The system comprises an onshore sub-station (102) supplying electrical power to a power consumer on the floating marine structure (101), and a power distributing buoy (110; 210; 310) arranged to electrically connect the onshore sub-station (102) and the at least one marine structure (101), wherein the power distributing buoy (110; 210; 310) is a surface piercing buoy comprising an upper buoy portion (111; 311) above the surface and a lower buoy portion (112; 312) forming a submerged spar anchored at a fixed depth by an at least one anchoring means on the seabed. The onshore sub-station (102) is connected to the power distributing buoy (110; 210; 310) via a first cable section (121; 221a; 221b; 221c) extending from the seabed into the buoy. The power distributing buoy (110; 210; 310) is connected to the at least one marine structure (101) by a second cable section (122) extending from the buoy to the marine structure (101) remote from the seabed, wherein the second cable section (122) comprises a dynamic cable. The first and second cable sections (121; 122) are electrically connected on the power distributing buoy (110; 210; 310) and arranged to transfer electric power to the marine structure (101).

IPC 8 full level

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Citation (search report)

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- See references of WO 2021034248A1

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