

Title (en)

Support device for a wind turbine for producing electric power at sea, corresponding facility for producing electric power at sea.

Title (de)

Stützvorrichtung einer Windkraftanlage zur Stromerzeugung im Meer, und entsprechende Stromerzeugungsanlage im Meer

Title (fr)

Dispositif de support d'une éolienne de production d'énergie électrique en mer, installation de production d'énergie électrique en mer correspondante.

Publication

**EP 2441893 A1 20120418 (FR)**

Application

**EP 11306345 A 20111018**

Priority

FR 1058458 A 20101018

Abstract (en)

The device (3) has a base arranged on a seabed (F), and a cylindrical column (9) to support an offshore electrical energy producing wind turbine (5). The column is connected to the base by a swivel linkage so as to authorize tilt motions of the column with respect to the base in all directions from a vertical axis (A), where the linkage is formed of a universal joint (11) e.g. Cardan joint. Mooring lines are provided with a ballast to connect the column to the seabed. The column has a metal lattice structure and a cylindrical central recess to receive a lower end of the wind turbine.

Abstract (fr)

Ce dispositif (3) de support d'une éolienne (5) de production d'énergie électrique en mer, du type comprenant une embase (7) reposant sur le fond marin (F) et une colonne (9) de support de ladite éolienne (5) reliée à ladite embase (7), est caractérisé en ce que ladite colonne (9) et ladite embase (7) sont liées par une liaison rotulante, autorisant des mouvements d'inclinaison (9) de ladite colonne (9) par rapport à ladite embase (7) dans toutes les directions par rapport à un axe vertical (A).

IPC 8 full level

**E02D 27/42** (2006.01)

CPC (source: EP US)

**E02B 17/027** (2013.01 - EP); **E02D 27/42** (2013.01 - EP US); **E02D 27/425** (2013.01 - EP US); **E02B 2017/0065** (2013.01 - EP); **E02B 2017/0091** (2013.01 - EP)

Citation (search report)

- [X] WO 03098038 A1 20031127 - INOCEAN CONSTRUCTION AS [NO], et al
- [A] GB 2460172 A 20091125 - MARINE CURRENT TURBINES LTD [GB]
- [A] JP S57127022 A 19820807 - KAWASAKI STEEL CO

Cited by

EP2759639A3; CN112376623A; WO2020211993A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2441893 A1 20120418**; **EP 2441893 B1 20140423**; ES 2471071 T3 20140625; FR 2966175 A1 20120420; FR 2966175 B1 20121221; US 2012093589 A1 20120419; US 8864419 B2 20141021

DOCDB simple family (application)

**EP 11306345 A 20111018**; ES 11306345 T 20111018; FR 1058458 A 20101018; US 201113276214 A 20111018