

Title (en)

TAUT INVERTED CATENARY MOORING SYSTEM

Title (de)

GESPANNTES UMGEKEHRTES KETTENVERTÄUUNGSSYSTEM

Title (fr)

SYSTÈME D'AMARRAGE DE CATÉNAIRE INVERSÉE TENDUE

Publication

**EP 3204285 A1 20170816 (EN)**

Application

**EP 15848722 A 20151006**

Priority

- US 201462061838 P 20141009
- US 201562235907 P 20151001
- US 2015054139 W 20151006

Abstract (en)

[origin: CN107107994A] A taut-inverted-catenary (TIC) mooring system may be implemented using only field-proven components. The mooring lines yield a positive uplift force on the anchors in all conditions. In the inverted-catenary configuration, geometric stiffness is provided by a subsurface spring buoy or distributed buoyancy elements on the line. The TIC system consists as much as possible of lightweight components, such as polyester fiber rope. Since the uplift force on the anchor is always positive, clearance between polyester rope and the seabed is provided. All geometric stiffness is provided by the spring buoy. Therefore, a ground chain between the seafloor anchor and the fiber rope is not necessary.

IPC 8 full level

**B63B 22/04** (2006.01); **B63B 22/02** (2006.01)

CPC (source: EP US)

**B63B 21/502** (2013.01 - EP); **B63B 21/508** (2013.01 - EP); **B63B 22/02** (2013.01 - US); **B63B 22/025** (2013.01 - EP); **B63B 2022/028** (2013.01 - EP US)

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)

CN 107107994 A 20170829; CN 107107994 B 20200218; EP 3204285 A1 20170816; EP 3204285 A4 20180502

DOCDB simple family (application)

CN 201580054777 A 20151006; EP 15848722 A 20151006