

Title (en)
A MOORING ASSISTANCE DEVICE

Title (de)
VERANKERUNGSHILFSVORRICHTUNG

Title (fr)
DISPOSITIF D'ASSISTANCE À L'AMARRAGE

Publication
EP 4046902 B1 20240619 (EN)

Application
EP 22157334 A 20220217

Priority

- IT 202100000833 U 20210218
- IT 202100011906 A 20210510

Abstract (en)

[origin: EP4046902A1] Mooring assistance device comprising: at least one articulated mechanical arm (1) movable, mechanically fixed at one end (3) to the quay / pier (7) by means of at least one joint connection (5) and provided at the opposite end with a support base (10) on which cleats are fixed (11, 12, 13) adapted to hold corresponding mooring lines (11a, 12a, 13a); said articulated mechanical arm comprising at least a first arm (1a) and a second arm (1b) connected to each other by means of a hinge element (2) configured to allow reciprocal angulation so as to allow extension in length of the articulated mechanical arm; wherein said arms being respectively provided with a first linear length and a second linear length and are movable, at least along a horizontal rotation plane, between a retracted configuration, in which they are placed side by side in proximity of said quay / pier and an extended configuration in which they define a total length substantially equal to the sum of the first and second length; said device further comprising: - at least one motor (4) capable of varying, by means of suitable mechanisms, the angle formed by the arms in correspondence with the hinge element, extending the length of the articulated mechanical arm up to achieving the extended configuration or by folding the arms against each other in the retracted configuration; said motor also allowing the variation of the distance from the water of the movable articulated mechanical arm by changing the angle of the articulated joint at which the end (3) of the mechanical arm (1a) is made supportive; - means for connecting and transmitting the motion of the motor, to the articulated arms and to the articulated joint; - remote engine control devices.

IPC 8 full level
B63B 21/00 (2006.01)

CPC (source: EP)
B63B 21/00 (2013.01); **B63B 2021/001** (2013.01); **B63B 2021/003** (2013.01); **B63B 2027/141** (2013.01)

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

DOCDB simple family (publication)
EP 4046902 A1 20220824; EP 4046902 B1 20240619; EP 4046902 C0 20240619

DOCDB simple family (application)
EP 22157334 A 20220217