

Title (en)

Steering device for flap rudder for aquatic vehicles

Title (de)

Anlenkeinrichtung für Flossenruder für Wasserfahrzeuge

Title (fr)

Dispositif d'articulation pour gouvernail à aileron d'embarcations

Publication

EP 2279940 A3 20110914 (DE)

Application

EP 10170650 A 20100723

Priority

DE 202009010424 U 20090731

Abstract (en)

[origin: CA2712138A1] In order to provide an linkage device (50) for flap rudders (100) for watercraft, in particular ships, comprising a first bearing housing (51) in which a sliding piston (52) and a first bearing (56), in particular a sliding bearing, are arranged and a second bearing housing (53) in which a linkage pin (54) and optionally a second bearing (57), in particular a sliding bearing are arranged, which has an increased safety towards high loads and a simple structure, the first and the second bearing housing (51, 53) and/or the sliding piston (52) and the linkage pin (54) and/or optionally the first and the second bearing (56, 57) each have substantially the same diameter (512, 513, 533, 534, 522, 542, 561, 571) and/or substantially the same width and height.

IPC 8 full level

B63H 25/38 (2006.01)

CPC (source: EP US)

B63H 25/381 (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

Citation (search report)

- [I] EP 0811552 A1 19971210 - BECKER INGBUERO W [DE]
- [I] DE 2353934 A1 19740725 - RAUKEMA HERKE
- [A] EP 1391380 A1 20040225 - BANDIERA CONSTANTINO [IT]

Cited by

CN115384748A

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

DE 202009010424 U1 20101216; CA 2712138 A1 20110131; CA 2712138 C 20130702; CN 101987657 A 20110323; CN 101987657 B 20131225; DK 2279940 T3 20140811; EP 2279940 A2 20110202; EP 2279940 A3 20110914; EP 2279940 B1 20140618; ES 2478866 T3 20140723; HR P20140595 T1 20140801; JP 2011037430 A 20110224; JP 5674099 B2 20150225; KR 101433418 B1 20140826; KR 20110013329 A 20110209; PT 2279940 E 20140717; SG 168507 A1 20110228; US 2011023764 A1 20110203; US 8863679 B2 20141021

DOCDB simple family (application)

DE 202009010424 U 20090731; CA 2712138 A 20100729; CN 201010245185 A 20100730; DK 10170650 T 20100723; EP 10170650 A 20100723; ES 10170650 T 20100723; HR P20140595 T 20140626; JP 2010167756 A 20100727; KR 20100074154 A 20100730; PT 10170650 T 20100723; SG 2010054955 A 20100729; US 84609010 A 20100729