

Title (en)
MARITIME DRONE

Title (de)
MARITIME DROHNE

Title (fr)
DRONE MARITIME

Publication
EP 4155187 A1 20230329 (EN)

Application
EP 22197182 A 20220922

Priority
IT 202100024359 A 20210922

Abstract (en)
Maritime drone (1) comprising a hull (2), which is provided with an upper face (3) and defines a containment volume (5) at its interior, a wing sail (6), which is extended along a main extension direction (X) transverse to the upper face (3), is provided with a wing profile (7) susceptible of intercepting the wind and is movable between an operative position, in which the wing profile (7) projects from the upper face (3), and a non-operative position, in which the wing profile (7) is housed in the containment volume (5), first movement means (8), which are arranged for moving the wing sail (6) between the operative position and the non-operative position, and second movement means (9), which are arranged, at least with the wing sail (6) in operative position, for rotating the wing sail (6) around a rotation axis (Y) parallel to the main extension direction (X). In addition, the first movement means (8) are arranged for moving the wing sail (6) along a translation axis (Z) parallel to the main extension direction (X). The second movement means (9) also comprise a motorized slewing bearing (11) provided with a stator ring (12), which is fixed to the hull (2), with a rotatable support (13), which is rotatably and coaxially mounted on the stator ring (12) around the rotation axis (Y), is rotatably integral with the wing profile (7), and is provided with a through guide channel (14). Such guide channel (14) is extended axially parallel to the translation axis (Z), communicates with the containment volume (5) and carries, slidably inserted, the wing sail (6) along the translation axis (Z). In addition, the motorized slewing bearing (11) is provided with motor means (15) mechanically connected to the rotatable support (13) and arranged for making it rotate around the rotation axis (Y).

IPC 8 full level
B63B 3/38 (2006.01); **B63H 9/061** (2020.01)

CPC (source: EP)
B63B 3/38 (2013.01); **B63H 9/061** (2020.02); **B63H 9/0635** (2020.02); **B63B 2035/007** (2013.01)

Citation (applicant)
• US 10399651 B2 20190903 - MCCLURE VANCE E [US], et al
• CN 104118551 A 20141029 - NO 702 RES INST CHINA CSIC

Citation (search report)
• [ID] CN 104118551 A 20141029 - NO 702 RES INST CHINA CSIC
• [I] JP S57178994 A 19821104 - NIPPON HAKYO KIKI KAIHATSU
• [I] US 2014144362 A1 20140529 - ATKINSON GREGORY MARK [JP]
• [ID] US 10399651 B2 20190903 - MCCLURE VANCE E [US], et al
• [I] US 5517940 A 19960521 - BEYER JAY R [US]
• [A] JP S58156490 A 19830917 - NIPPON KOKAN KK
• [A] JP S5828098 U 19830223

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4155187 A1 20230329

DOCDB simple family (application)
EP 22197182 A 20220922