

Title (en)

METHOD AND APPARATUS FOR CONTROLLING THE TURNING OF A HYDROFOIL.

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DER DREHUNG EINES HYDROFOILS.

Title (fr)

MÉTHODE ET APPAREIL POUR CONTRÔLER LE VIRAGE D'UN HYDROPTÈRE.

Publication

EP 3892527 B1 20231108 (EN)

Application

EP 21163730 A 20210319

Priority

IT 202000005890 A 20200319

Abstract (en)

[origin: EP3892527A1] Method for controlling the turning of a hydrofoil (1), such method providing for: a first step for detecting a required turn angle (a) and a generation of a corresponding turn signal (SV); a step for detecting the variations of linear acceleration, the variations of angular speed, the tilts and the advancing speed of the hydrofoil (1) and a generation of corresponding acceleration signals, angular speed, tilt and linear speed (SA, SVA, SI, SVL); a first calculation step, as a function of the turn signal (SV), of an ideal turn position (PVI) for each appendage (4) of the hydrofoil (1); a second calculation step, as a function of the acceleration signals, angular speed, tilt and linear speed (SA, SVA, SI, SVL), of first corrective factor (FC1) for each appendage (4); a processing step, in which each ideal turn position (PVI) is corrected by the first corrective factor (FC1) in order to obtain a corrected turn position (PVC) for each said appendage (4); a step for driving first actuator means (5) to move each appendage (4) around a corresponding first rotation axis (Y) in order to reach the corresponding corrected turn position (PVC).

IPC 8 full level

B63B 1/28 (2006.01); **B63B 1/30** (2006.01)

CPC (source: EP)

B63B 1/28 (2013.01); **B63B 1/30** (2013.01); **B63B 2001/281** (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 3892527 A1 20211013; **EP 3892527 B1 20231108**; **EP 3892527 C0 20231108**; IT 202000005890 A1 20210919

DOCDB simple family (application)

EP 21163730 A 20210319; IT 202000005890 A 20200319