

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

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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

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