

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 A1 20211013 (EN)**

Application

**EP 21163730 A 20210319**

Priority

IT 202000005890 A 20200319

Abstract (en)

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)

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Citation (applicant)

US 3886884 A 19750603 - STARK DONALD R, et al

Citation (search report)

- [YD] US 3886884 A 19750603 - STARK DONALD R, et al
- [Y] US 4098215 A 19780704 - OWAN THOMAS A
- [X] CH 473708 A 19690615 - UNITED AIRCRAFT CORP [US]
- [A] WO 2016009409 A1 20160121 - HYDROS INNOVATION SA [CH]

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Designated extension state (EPC)

BA ME

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