

Title (en)

ELECTRIC DRIVE SYSTEM FOR CRAFT, SUCH AS A SURFBOARD OR PADDLEBOARD, WITH COOLING MEANS

Title (de)

ELEKTRISCHES ANTRIEBSSYSTEM FÜR WASSERFAHRZEUG WIE EIN SURFBRETT ODER PADDELBRETT MIT KÜHLVORRICHTUNG

Title (fr)

SYSTÈME DE MOTORISATION ÉLECTRIQUE POUR EMBARCATION, TELLE QU'UNE PLANCHE DE SURF OU DE PADDLE, AVEC MOYENS DE REFOIDISSEMENT

Publication

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Application

**EP 20775187 A 20200828**

Priority

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Abstract (en)

[origin: WO2021038037A1] The invention relates to a drive system for an electrically assisted craft which is intended to allow a user to be transported on water, the invention being used particularly in the field of surfboards, paddleboards or sailboards, and in the field of kayaks or canoes. The electric drive system is configured to be connected to an electrical energy source and comprises, on the one hand, a sealed enclosure (1) which is intended to be integrated in or on a craft, in which enclosure (1) a rotor (2) and a stator (3, 7) are arranged, and, on the other hand, an axle (4) which is connected at a first end to the rotor (2) and which protrudes in a fluid-tight manner outside the enclosure (1) at a second end opposite its first end. The axle (4) can be connected at its second end to propulsion means for a craft, such as a propeller, so that when the system is supplied with electrical energy, the rotor (2) is rotated and drives the axle (4) with this rotation. The system also comprises cooling means (5) which themselves comprise at least one first elongate assembly (5), which is at least partially made of metal and a first end of which is arranged inside the enclosure (1), the elongate assembly (5) protruding in a fluid-tight manner outside the enclosure (1) at a second end opposite its first end so as to allow the conduction of the heat from the inside to the outside of the enclosure (1) along the first elongate assembly (5).

IPC 8 full level

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Citation (search report)

See references of WO 2021038037A1

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