

ABSTRACT**MARINE VEHICLE THRUSTER CONTROL METHOD**

5 A method for controlling a thruster of a marine vehicle (1) comprising a body
(2) and a thruster (3) mounted on the body (2) of the vehicle (1), the vehicle
(1) being at least partially immersed in a liquid and moving with respect to the
liquid along an axis of displacement (x) in a direction of displacement and
rotating about at least one axis of rotation perpendicular to the axis of
10 displacement (x) with a rotational speed, the thruster (3) comprising an
upstream propeller and a downstream propeller along the axis of
displacement in the direction of displacement. The method comprises a
stabilization step, in which the thruster is controlled such that the main axis of
the upstream flow generated by the upstream propeller at a given instant t is
15 an estimated main axis on which a position (P) of a center of the downstream
propeller, situated substantially on the axis of rotation of the downstream
propeller, is estimated to be situated at a later instant $t+dt$ at which the flow
generated by the upstream propeller at the given instant t reaches the
downstream propeller, the estimated main axis (x_e) depending on the
20 rotational speed of the vehicle.

Figure 1