

ABSTRACT

**METHOD FOR ASSISTING WITH GUIDING A SURFACE VESSEL FOR TOWING
AN UNDERWATER DEVICE BY MEANS OF A CABLE**

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The invention relates to a method for assisting the guidance of a surface vessel (10) intended to tow an underwater device, the method comprising:

- a) discretizing the geographical sector (21) around the surface vessel (10) into a plurality of zones (22, 23), with each zone (22, 23) being classified according to a degree of accessibility from among a set of degrees of accessibility;
- 10 b) computing a set of candidate trajectories (24, 25, 26) of the surface vessel (10) in said geographical sector (21), with each candidate trajectory (24, 25, 26) corresponding to a different gyration rate from the current position of the surface vessel (10);
- 15 c) classifying each candidate trajectory (24, 25, 26) as a function of the degree of accessibility of the zone of the geographical sector traversed by the possible trajectory (24, 25, 26), and as a function of the feasibility of one or more predefined actions on said candidate trajectory (24, 25, 26);
- d) generating a display of the zones (22, 23) and of the candidate trajectories (24, 25, 26) on a human-machine interface, as a function of their classification and/or a transmission of instructions relating to said actions.
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Figure for the abstract: Fig. 4