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(54) **Title:** METHOD, DEVICE AND APPARATUS FOR AUTONOMOUS DOCKING OF MARINE VESSEL

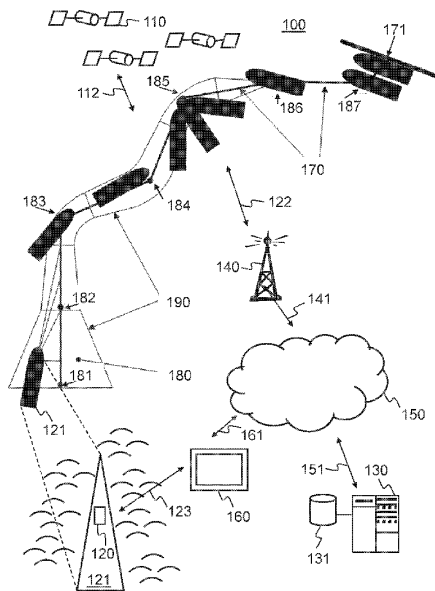


Fig. 1

(57) **Abstract:** Apparatus and computer-implemented method for autonomous marine vessel docking, the method comprising: determining a transit control mode associated with route plan data defining transit operation between ports; determining an autonomous docking control mode associated with harbor track data comprising a set of waypoint properties and defining approach zone information and track segments joined at waypoints. Method further comprises determining vessel location, speed and heading; comparing the vessel location, speed and heading to the approach zone information and changing from the transit control mode to the autonomous docking control mode in response to: the vessel location comprised by the location area information; the vessel speed being lower than the maximum vessel speed for entering the approach zone; and the vessel heading matching criteria defined by the maximum heading deviation for entering the approach zone.

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