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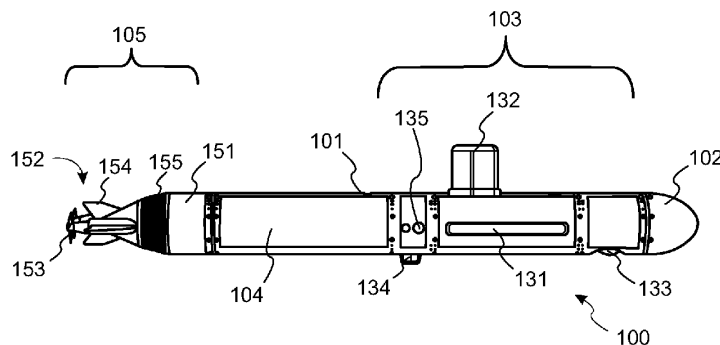


FIG. 1

(57) Abstract: An autonomous underwater vehicle for performing subsea operations is disclosed. The autonomous underwater vehicle, AUV, (100) comprises a hull (101) having a nose end and a tail end; a propulsion mechanism (152) configured to propel the AUV (100); and an internal ballast (151) located in the hull (101). The propulsion mechanism (152) comprises a pair of counter-rotating propellers (153), wherein the rotational speed of each propeller is independently controllable. The AUV (100) further comprises an internal ballast positioning mechanism configured to controllably move the internal ballast (151) relative to the hull (101). The independently controllable propellers of the pair of counter-rotating propellers (153) and the internal ballast positioning mechanism each provide roll control for the AUV (100).



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