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(54) Title: SYSTEMS AND PROCESSES FOR MOORING A VESSEL AND TRANSFERRING ENERGY TO OR FROM THE VESSEL

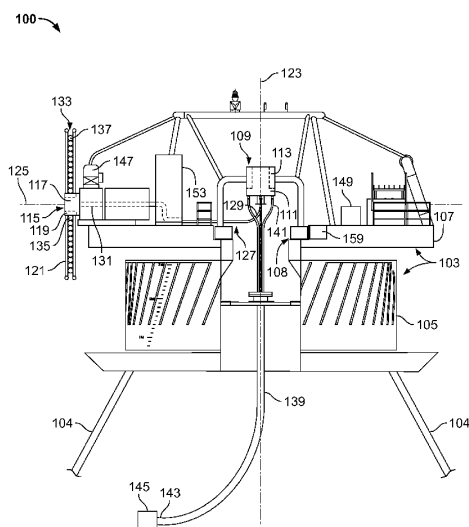


FIG. 1

(57) Abstract: Systems and processes for mooring a vessel. The system can include a buoy that includes a fixed part rotatively coupled to a rotating part. A first swivel can be disposed on the buoy that includes a fixed part rotatively coupled to a rotating part, with the fixed part of the first swivel coupled to the fixed part of the buoy. A second swivel can be disposed on the buoy that includes a fixed part rotatively coupled to a rotating part, with the fixed part of the second swivel coupled to the rotating part of the buoy. A spool can be coupled to and configured to rotate with the rotating part of the second swivel. A central longitudinal axis of the first swivel can be oriented vertically with respect to the buoy and a central longitudinal axis of the second swivel can be oriented substantially horizontally with respect to the buoy.



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