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(54) **Title**: HYBRID TENSIONING RISER STRING

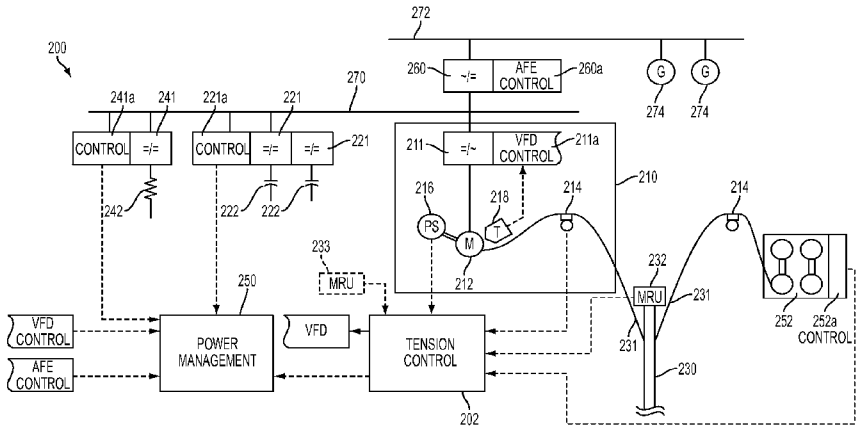


FIG. 2A

(57) **Abstract**: An enhanced riser control system may employ electrical tensioners coupled to a drilling riser by wires. The electrical tensioners may provide quick response to a tension controller to handle positioning of the drilling riser. The electrical tensioners of the enhanced riser control system may be combined with hydro-pneumatic tensioners in a riser hybrid tensioning system. A controller within the enhanced riser control system may be configured to distribute tension to electrical tensioners and to control electrical tensioners to adjust the length of the first and second wires. The electrical tensioners may be used, for example, to suppress vortex-induced-vibration (VIV) and control drilling riser recoil.

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