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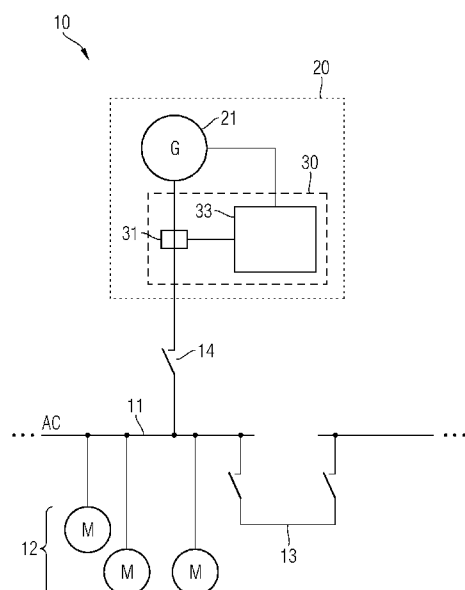
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FIG 1



(57) Abstract: A power supply system of a marine vessel is provided. The power supply system is adapted to be coupled to a power distribution bus of a marine vessel for powering a plurality of electric motors coupled to the power distribution bus. The power supply system includes a generator for generating electric power and a control system coupled to the generator and adapted to control the output voltage of the generator in accordance with a voltage setpoint. The control system includes a measuring unit for measuring a parameter of the electric power generated by the generator and the control unit adapted to control the voltage setpoint for the output voltage of the generator in dependence on the measured parameter.