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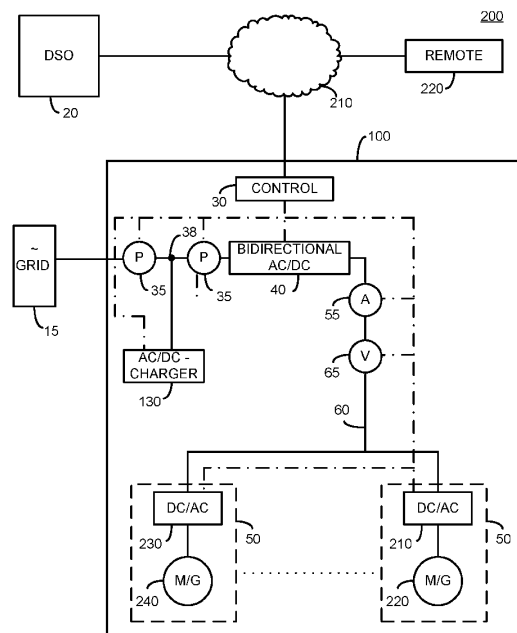


FIG. 1C

(57) Abstract: A station constituted of: a control circuit; a bidirectional interface coupling to an AC grid; one of a load and an arrangement for coupling to a load, the load presenting a time varying electrical energy consumption to the station; and a plurality of flywheel based electrical storage units coupled to the bidirectional interface, wherein the control circuit is arranged to: in the event that the power drawn by the station is less than a first threshold value, and the plurality of flywheel based electrical storage units are not fully charged, charge at least one of the plurality of flywheel based electrical storage units; and in the event that the power drawn by the station is greater than a second threshold value, and the plurality of flywheel based electrical storage units are not fully discharged, provide electrical energy from at least one of the plurality of flywheel based electrical storage units.

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