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(54) Title: METHOD FOR OPERATING A TRAIN SYSTEM FOR A MECHANICAL DRIVEN EQUIPMENT

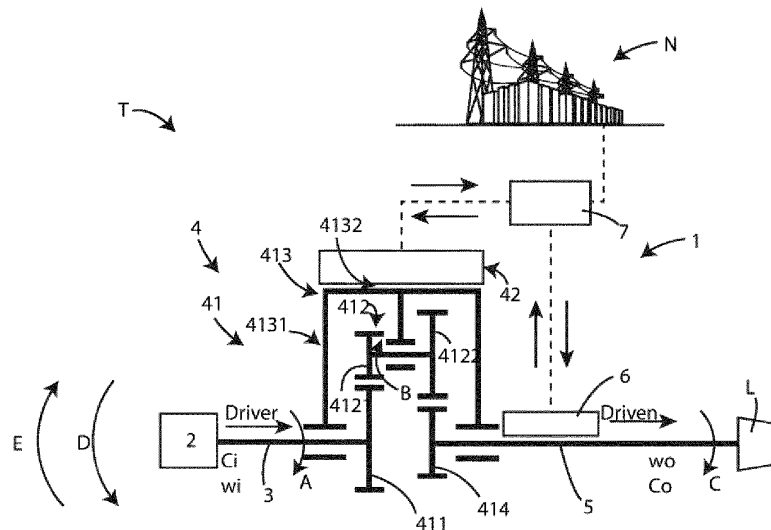


Fig. 1

(57) Abstract: A method of operating a train system for driving a mechanical driven equipment is disclosed. The train system comprises a hybrid gearbox connected between a power source and a load to be driven. The hybrid gearbox includes a lay shaft gear, which transmission ratio between the power source and the load and a motor-generator unit can be adjusted, to adjust the transmission speed ratio, arranged to balance the power generated by the power source and transmitted to the load.

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