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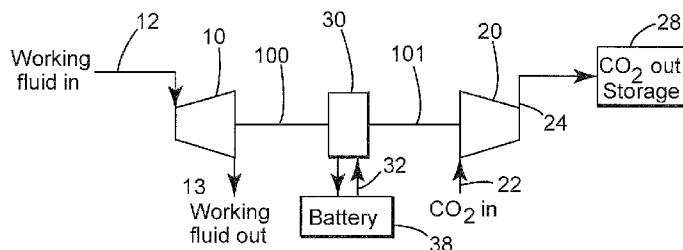
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(54) Title: METHOD OF DRIVING A CO₂ COMPRESSOR OF A CO₂-CAPTURE SYSTEM USING WASTE HEAT FROM AN INTERNAL COMBUSTION ENGINE

Figure 1



(57) Abstract: An integrated system and method for driving a CO₂ compressor (20) to densify CO₂ captured from the exhaust gas stream of an internal combustion engine on board a mobile source of CO₂ includes operating a turbine (10) that is operatively connected to the power input or drive shaft of the CO₂ compressor, and operatively connecting a motor-generator (30) to the turbine for (a) recovery of any excess power when the turbine-generated power exceeds the CO₂ compressor power demand and (b) providing supplemental power when the turbine-generated power is insufficient to meet the CO₂ compressor power demand.

