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(54) Title: FLUE GAS CONDITIONING

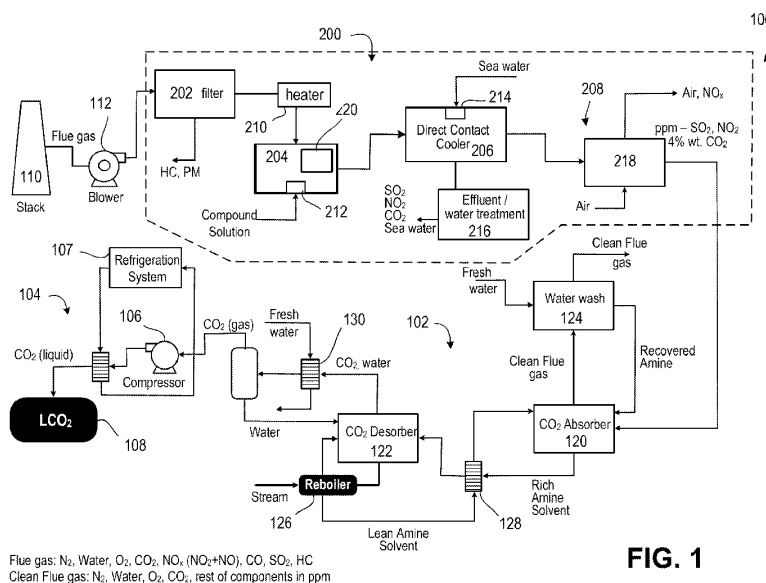


FIG. 1

(57) Abstract: A gas conditioning system removes contaminants including carbon dioxide from flue gas, such as flue gas of a marine vessel, and includes a rotating backed bed assembly. The rotating packed bed assembly fluidly connects to an exhaust port of an engine, and receive a flue gas from the exhaust port. The rotating packed bed assembly includes a first rotating packed bed having an absorption agent to absorb a portion of the carbon dioxide from the flue gas, and a second rotating packed bed to receive the absorption agent from the first rotating packed bed and desorb at least some of the portion of the carbon dioxide from the absorption agent.

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