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(54) Title: REMOVAL OF A TARGET GAS FROM A MIXTURE OF GASES BY SWING ADSORPTION WITH USE OF A TURBOEXPANDER

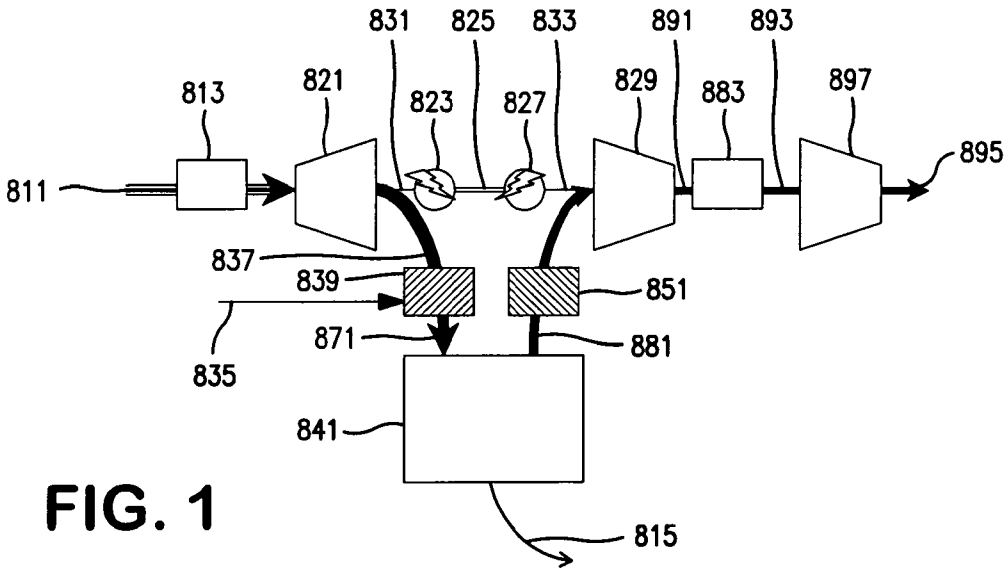

FIG. 1

(57) Abstract: The separation of a target gas selected from a high pressure gas mixture containing said target gas as well as a product gas using a swing adsorption process unit. A turboexpander is used upstream of the swing adsorber to reduce the pressure of the high pressure gas mixture. A compressor is optionally used downstream of the swing adsorber to increase the pressure of the target gas-containing stream for injecting into a subterranean formation.

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