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(54) Title: SPIRAL MESH ROTATING BED ABSORBER FOR COMPACT CARBON CAPTURE

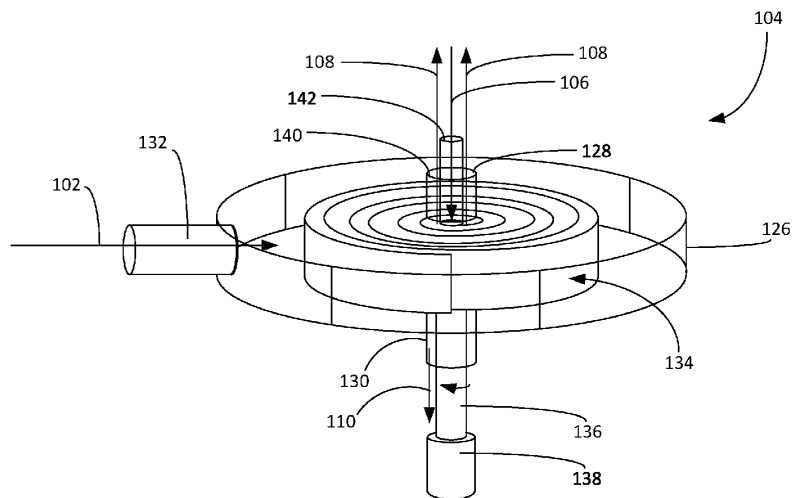


FIG. 2

(57) Abstract: A carbon capture system configured to remove carbon dioxide from a carbon-containing feed stream includes a rotating bed absorber that includes a spiral rotating contactor inside a tank that is at least partially filled with a liquid solvent or absorbent. The spiral rotating contactor includes one or more spiral flights that extend outward from a central hub. The rotating bed absorber is configured to produce clean gas with a reduced carbon dioxide concentration and loaded solvent from the feed stream. The carbon capture system further can optionally include a regenerator downstream from the rotating bed absorber for regenerating the liquid absorbent.

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