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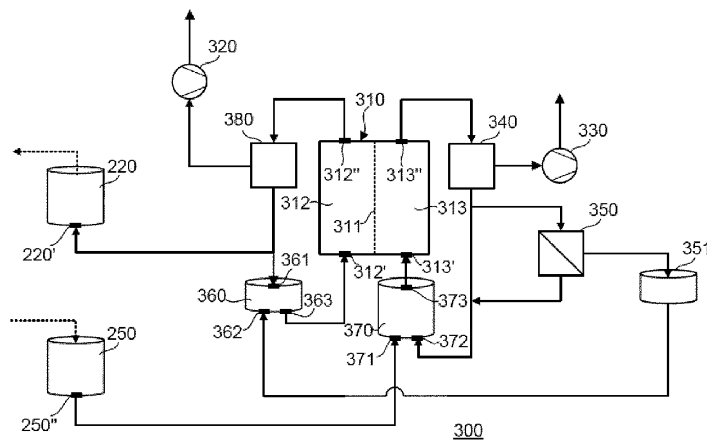


Fig. 2

(57) Abstract: A method of preparing a substantially pure gaseous carbon dioxide from a gaseous mixture of carbon dioxide (CO₂) and oxygen (O₂), wherein said gaseous mixture is withdrawn from an anode chamber (313) of an electrolytic cell (310), and wherein said electrolytic cell (310) is fed a spent aqueous scrubbing liquid from a scrubber (210), wherein said scrubber (210) scrubs a gas [having a first carbon dioxide concentration] with a first alkaline, aqueous scrubbing liquid, wherein said spent aqueous scrubbing liquid is regenerated in the electrolytic cell (310) by electrolysis, wherein the regeneration further comprises generating a gaseous mixture of oxygen and carbon dioxide (CO₂) in the anode chamber (313); and wherein said gaseous mixture comprises between 66 and 80 % carbon dioxide and between 20 % and 34 % oxygen, the method comprising the step of: treating said gaseous mixture of oxygen and carbon dioxide (CO₂) to remove at least 50 % oxygen from said mixture.

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