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(54) **Title**: SYSTEM FOR DELIVERY OF PURIFIED MULTIPLE PHASES OF CARBON DIOXIDE TO A PROCESS TOOL

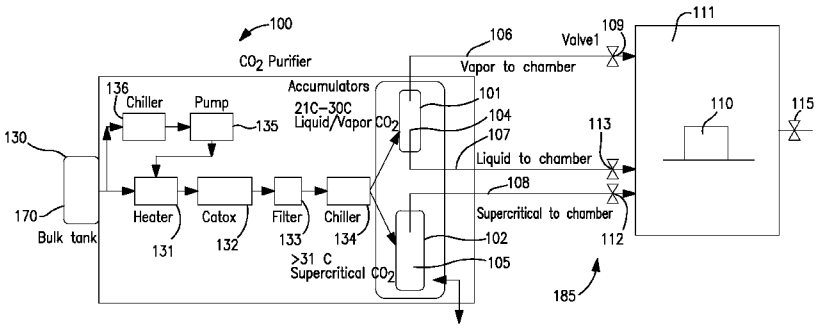


FIG. 1

(57) **Abstract**: A carbon dioxide supply method and system for supplying supercritical and subcritical phases of carbon dioxide on-demand to a substrate to create a novel and improved cleaning sequence for removal of contaminants contained in the substrate. The ability for the supply system to deliver vapor, liquid and supercritical phases of carbon dioxide in a specific sequence at predetermined times during a process cleaning sequence produces an improved removal of contaminants from the substrate compared to conventional carbon dioxide cleaning processes.