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(54) Title: CHAMBERS WITH IMPROVED COOLING DEVICES

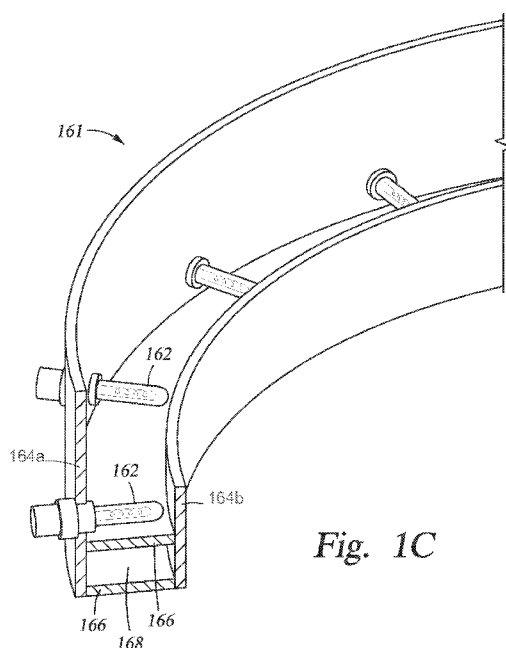


Fig. 1C

(57) Abstract: Embodiments of the present invention provide a heating assembly using a heat exchange device to cool a plurality of heating element. The heating assembly includes a plurality of heating elements, a cooling element having one or more cooling channels for receiving cooling fluid therein, and a heat exchange device disposed between the plurality of heating elements and the cooling element. The heat exchange device comprises a hot interface disposed adjacent to and in thermal contact with the plurality of heating elements and a cold interface disposed adjacent to and in thermal contact with the cooling element.