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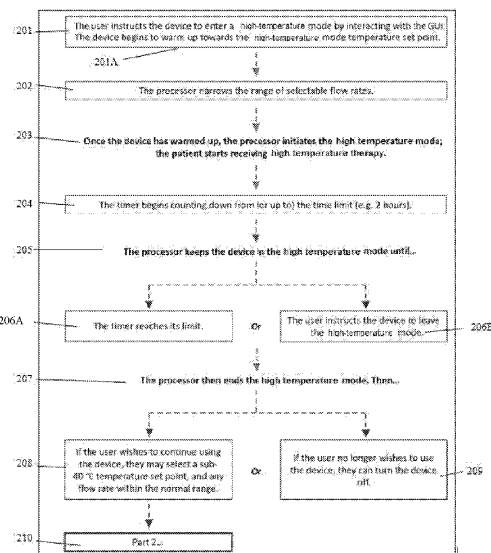


Figure 2

(57) Abstract: According to this disclosure there is provided a respiratory support apparatus configured to provide a gases flow to a patient, the respiratory support apparatus comprising: a flow generator configured to generate the gases flow; a humidifier configured to humidify the gases flow; and a controller. The apparatus is controlled by the controller to function in at least two modes, being a normal mode and a high-temperature mode. In the high-temperature mode the temperature of gases delivered to the patient is higher than the temperature of gases delivered to the patient when in the normal mode. In the high-temperature mode, the controller controls one or more parameters of the gases flow to be different to that in the normal mode, whilst providing higher temperatures. The apparatus is also operative in a cool-down mode in which one or more parameters of the gases flow are controlled. The apparatus includes safety features to ensure the temperature, dew-point, enthalpy, and/or energy of the gases flow do not exceed safe limits.

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