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(54) **Title:** SUPPLEMENTARY GAS SOURCE DETECTION AND RELATED APPARATUSES AND METHODS

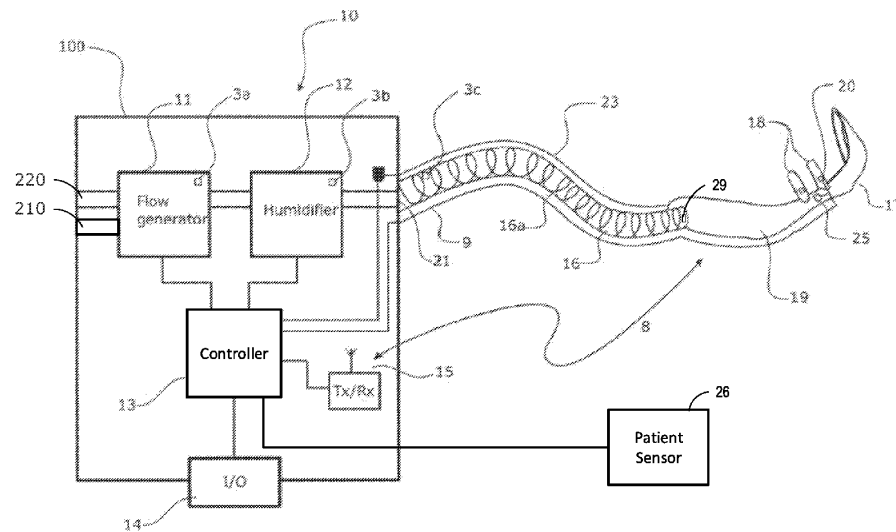


FIGURE 1A

(57) **Abstract:** An apparatus for delivery of a flow of gases to a user, such as a respiratory therapy apparatus, is provided. The apparatus may have first and second inlets for receiving supplementary gases flows, a blower to generate the gases flow to the user, and a controller. A valve and a sensor may be provided in the second inlet. The controller may be configured to detect the disconnection of a gases source from the second inlet, and to respond by operating the valve and/or triggering an alarm. The controller may be configured to determine whether a gases flow is being provided at one or both of the inlets, and to accordingly control an operational mode of the apparatus.

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