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(54) Title: SYSTEM AND METHOD OF DETECTION OF WATER IN A CONDUIT FOR USE IN A RESPIRATORY THERAPY SYSTEM

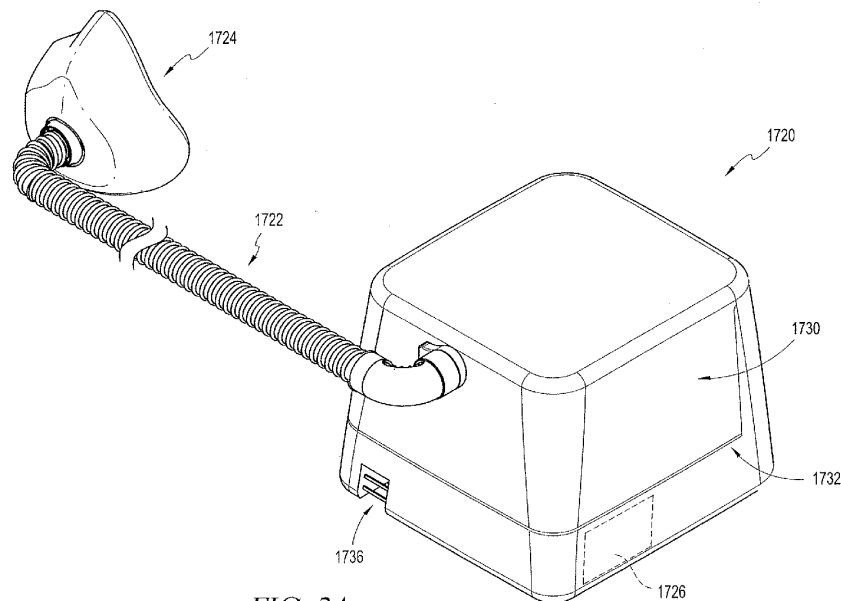


FIG. 2A

(57) Abstract: We provide a respiratory therapy system comprising: a flow generator; a humidifier; a respiratory conduit a patient interface coupled to the respiratory conduit to deliver a gases flow to a patient; a sensor configured to determine pressure or flow of the gases flow; a controller configured to control the flow generator to generate the gases flow; and the controller configured to: a) retrieve at least one first signal associated with or indicative of a gases flow and/or pressure in the respiratory conduit; b) determine a measure of at least one first parameter associated with gases flow perturbations and/or pressure perturbations for at least one portion of the retrieved at least one first signal; and c) determine the presence of liquid in the respiratory conduit based at least in part on the measure(s) of the at least one first parameter meeting a first threshold. The system can be used to reduce or alleviate condensation in a respiratory gas deliver conduit.

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