Adjustable Expiratory Relief In Respiratory Therapy

ABSTRACT OF THE DISCLOSURE

Systems and methods for conducting respiratory therapy in a respiratory system can adjust a flow of respiratory gases to a patient based upon a detected patient breath cycle. The respiratory system can include a non-sealed patient interface. The respiratory system can be configured to deliver a high flow therapy. The system can synchronize the flow rate with the detected breath cycle of the patient. The amplitude of the flow rate variation can be based partially on a value selected by the user. The adjustments to the flow rate can be done by controlling the motor speed using a positive feedback system. The adjustments to the flow rate can also be limited by the controller preventing the flow rate from crossing a minimum and/or maximum threshold.

Fig. 1A, 1B