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- (71) Applicant: **FISHER & PAYKEL HEALTHCARE LIMITED** [NZ/NZ]; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ).
- (72) Inventors: **WILLIAMS, Rhys Matthew James**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ). **CANTRELL, Charles Grady**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ). **RUSSELL, David Martin**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ). **RYAN, Brett James**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ). **EDWARDS, Bryn Alan**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ). **GULLEY, Anton Kim**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ).
- (74) Agent: **AJ PARK**; Level 22, State Insurance Tower, 1 Willis Street, Wellington (NZ).
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(54) Title: RESPIRATORY RATE MONITORING FOR RESPIRATORY FLOW THERAPY SYSTEMS

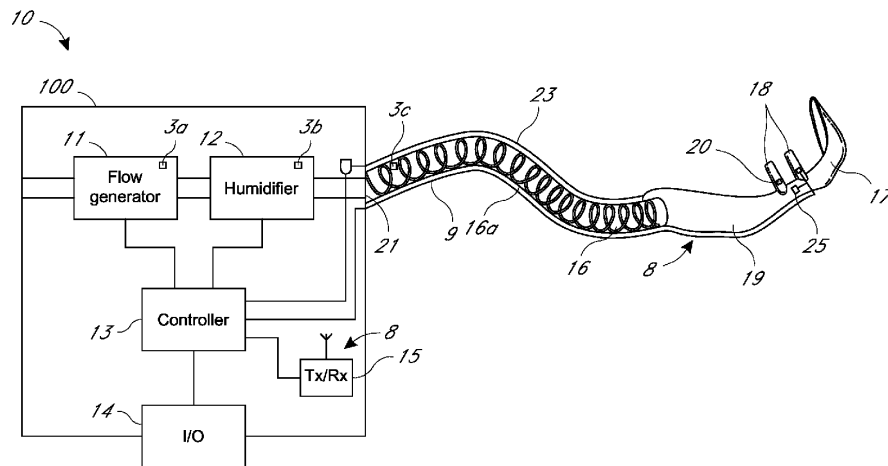


FIG. 1

(57) Abstract: Systems and methods can determine respiratory rates of a patient using a respiratory device by performing one or more frequency analyses of a signal from the gases flow. The signal from the gases flow can be one that varies with the patient's breathing. The system can include a non-sealed patient interface, such as a nasal cannula in a nasal high flow therapy, or any other patient interfaces. The respiratory system can also detect whether the patient has taken off the patient interface and/or whether the patient connected to the patient interface is talking or eating. Data of the patient's use of the respiratory system and the patient's respiratory rates can provide therapy compliance and long-term trend of use information and/or progress in the patient's respiratory functions and/or other physiological functions.

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