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(71) Applicant and

(72) Inventor: CHOU, Chang-An [CN/CN]; 3F, No.100, Sec 3, Ming-Sheng East Rd, Taipei 105, Taiwan (CN).

(74) Agent: LUNG TIN INTERNATIONAL INTELLECTUAL PROPERTY AGENT LTD.; 18th Floor, Tower B, Grand Place, N0. 5, Huizhong Road, Chaoyang, Beijing 100101 (CN).

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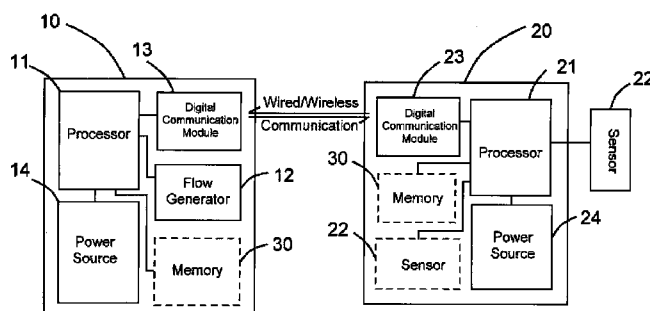


FIG. 1

(57) Abstract: An extendable air delivery system includes a PAP device (10) supplying a breathable pressured air to a patient and a sensing device (20) to acquire physiological information from the patient by at least a sensor (22). A method for deciding a delivery mode includes steps of initiating the PAP device (10), detecting if the sensing device (20) is connected with the PAP device (10), and if negative, the PAP device (10) enters a preset independent operation mode and performs a preloaded first air delivery behavior for providing the breathable air to the patient, or if positive, the PAP device (10) enters a common operation mode. During the common operation mode, based on the acquired physiological information, the sensing device (20) generates a signal/data for sending to the PAP device (10), and the signal/data involves in deciding a second air delivery behavior for providing the patient the breathable air. And, the above steps are repeated during the air delivery.