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(71) Applicant: COMPUMEDICS SLEEP PTY. LTD. [AU/AU]; 1 Marine Parade, Abbotsford, VIC 3067 (AU).

(72) Inventors: BURTON, David; 62 Broadway, Camberwell, VIC 3124 (AU). WALLACE, Allan; 31a Birkinshaw Avenue, Tranmere, S.A. 5073 (AU).

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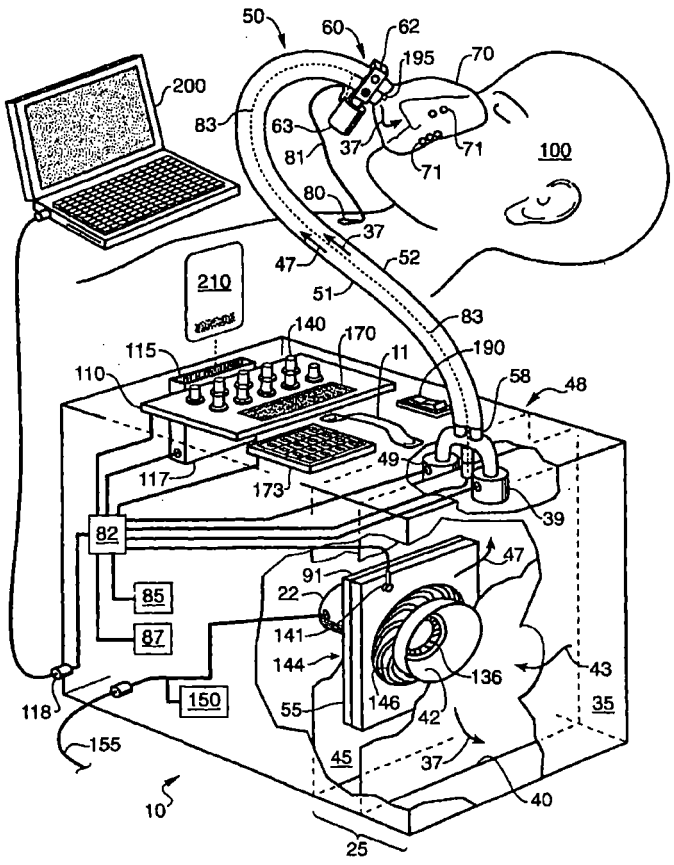
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(54) Title: DUAL-PRESSURE BLOWER FOR POSITIVE AIR PRESSURE DEVICE



(57) Abstract: A gas compression and delivery device for treatment of sleep disorders. The device has a motor, at least one impeller, and two air pressure chambers, each receiving air at a different pressure, one pressure applied to a patient during inspiration and one for expiration. A mask having a dual pressure gas delivery hose and a selector for letting in either the high or low pressure gas depending on the breathing cycle of the patient. The gas pressures are adjustable by means of valves on the separate chambers in the device. At least one sensor on the patient sending data to a controller in the device as to the patient's physiological data which is used to determine the patients breathing treatment needs. The controller may be a microprocessor with memory capability to store patient data for diagnosis and treatment of the patient. Telecommunications by telemetry, or telephony to a remote site allows home use of the device rather than institutional use with health car providers on site. A data card may be used to input and or store data in the device. The controller is capable of instructing the device to treat the patient with a number of different protocols and record the patient's physiological data for diagnosis and treatment purposes.

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