

Title (en)
A MASK AND CONTROL METHOD

Title (de)
MASKE UND STEUERUNGSVERFAHREN

Title (fr)
MASQUE ET PROCÉDÉ DE COMMANDE

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Abstract (en)
[origin: WO2019016018A1] The invention provides a breathing assistance mask. A mask is provided that incorporates an air chamber, a filter, an inhalation fan, an exhalation fan, a sensor and a controller. The inhalation fan draws air through the filter and into the mask. The exhalation fan exhausts the exhaled air. The controller continuously runs the inhalation and exhalation fans when the mask is being worn. The controller provides a first and second rotation speed for the fans, with the first rotation speed being non-zero and lower than the second rotation speed. During inhalation, the exhalation fan runs at the first inhalation speed and the inhalation fan runs at the second inhalation speed. During exhalation, the inhalation fan runs at the first inhalation speed and the exhalation fan runs at the second inhalation speed. The control of the inhalation and exhalation fans ensures that the air flow in the mask is synchronized with the breathing of the user, ultimately making breathing more comfortable in the mask.

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