

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: WO2019020503A1] The invention provides a mask which incorporates an air chamber, a filter, a fan arrangement, a sensor and a controller. The sensor detects a parameter relating to the temperature and/or relative humidity of air inhaled and exhaled over time by a user of the mask. The controller calculates a first value which depends on a first time derivative of the parameter. Based on this calculation, the controller determines a start of an inhalation and/or a start of an exhalation of the user. Therefore, the controller is able to accurately determine the inhalation and/or exhalation cycle of the user, thereby compensating for a time lag between the detected variation of the parameter over time and the inhalation and exhalation timing of the user. With this information, the controller operates the fan arrangement in synchronism with the inhalation and/or exhalation cycle of the user.

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