

Title (en)
A MASK AND CONTROL METHOD

Title (de)
MASKE UND STEUERUNGSVERFAHREN

Title (fr)
UN MASQUE ET PROCÉDÉ DE COMMANDE

Publication
EP 3661606 B1 20210224 (EN)

Application
EP 18755145 A 20180730

Priority
• CN 2017095970 W 20170804
• EP 17187618 A 20170824
• EP 2018070550 W 20180730

Abstract (en)
[origin: WO2019025340A1] The invention provides a breathing assistance mask. A mask is provided that incorporates an air chamber, a filter, a fan arrangement, a sensor arrangement and a controller. The fan arrangement ventilates the mask. The sensor arrangement detects a breathing cycle of a user. The controller identifies a normal cyclic breathing period and a disturbed breathing period. Speaking and laughing are the most usual reasons for disturbances to the breathing cycle. When a normal cyclic breathing period is identified, the controller controls the fan arrangement in a first mode in synchronism with the cyclic breathing. However, when a disturbed breathing period is identified, the controller controls the fan arrangement in a second mode which is not in synchronism with the timing of inhalation and exhalation. Breathing in the mask is thus facilitated both during normal and disturbed breathing.

IPC 8 full level
A62B 7/10 (2006.01); **A62B 18/00** (2006.01); **A62B 18/04** (2006.01)

CPC (source: EP)
A62B 7/10 (2013.01); **A62B 18/00** (2013.01); **A62B 18/04** (2013.01)

Cited by
WO2024080756A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019025340 A1 20190207; CN 111182945 A 20200519; CN 111182945 B 20220506; EP 3661606 A1 20200610; EP 3661606 B1 20210224

DOCDB simple family (application)
EP 2018070550 W 20180730; CN 201880065104 A 20180730; EP 18755145 A 20180730