

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
15 September 2022 (15.09.2022)



(10) International Publication Number  
**WO 2022/189944 A1**

(51) International Patent Classification:  
*A61M 16/00* (2006.01)

(21) International Application Number:  
PCT/IB2022/052011

(22) International Filing Date:  
07 March 2022 (07.03.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
63/158,088 08 March 2021 (08.03.2021) US

(71) Applicant: **FISHER & PAYKEL HEALTHCARE LIMITED** [NZ/NZ]; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ).

(72) Inventors: **GULLEY, Anton Kim**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ). **ELLINGHAM, Lucy Elizabeth**; 15 Maurice Paykel Place, East Tamaki, Auckland, 2013 (NZ).

(74) Agent: **FLINT INTELLECTUAL PROPERTY**; PO Box 11058, Ellerslie, Auckland, 1542 (NZ).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,

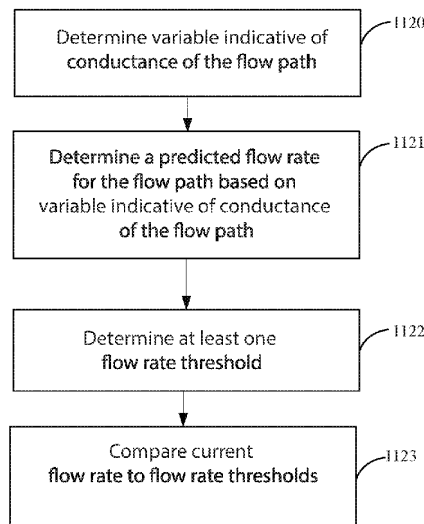
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: ALARM FOR BREATHING ASSISTANCE SYSTEM



(57) Abstract: Disclosed is a breathing apparatus, the breathing apparatus comprising a flow generator, a flow path and a controller. The flow path may be configured to provide a flow of breathable gas to a patient. The controller may be configured to control the flow generator by controlling a flow generator output to the flow generator the controller may be configured to determine a predicted flow rate for the flow path, and/or a predicted maximum flow rate for the flow path and/or a predicted minimum flow rate for the flow path.

Figure 14

WO 2022/189944 A1