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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 November 2015 (12.11.2015)

WIPO | PCT

(10) International Publication Number
WO 2015/170997 A1

(51) **International Patent Classification**:
A61M 16/06 (2006.01)

(21) **International Application Number**:
PCT/NZ2015/050051

(22) **International Filing Date**:
8 May 2015 (08.05.2015)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
61/991,373 9 May 2014 (09.05.2014) US
62/117,370 17 February 2015 (17.02.2015) US

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(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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).

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(54) **Title**: CUSTOMIZABLE RESPIRATORY MASK

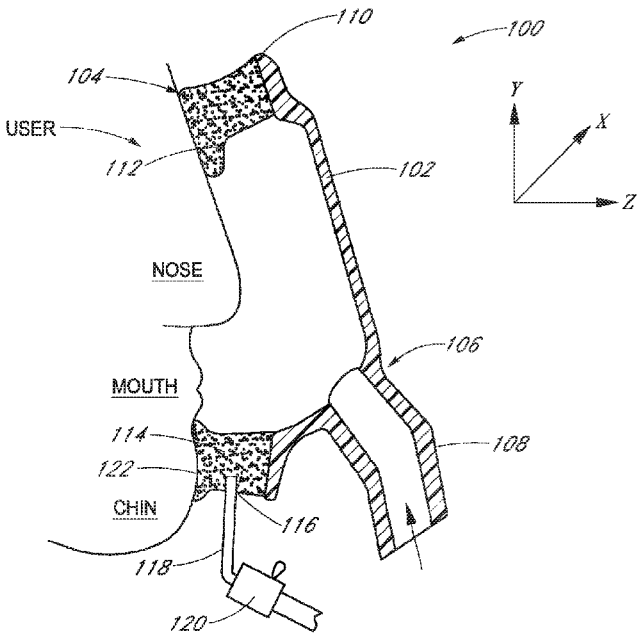


Fig. 4b

(57) **Abstract**: A customizable mask including a conforming seal is configured to utilize the physical process of granular jamming to enable it to adapt to a wide range of facial geometries. The mask may include a frame having a perimeter and a conduit connection, a conforming seal positioned along the perimeter of the frame; the conforming seal may include a sealing surface and a connecting surface, the connecting surface configured to mate with the perimeter of the frame, and the sealing surface configured to conform to a users' face. The conforming seal may further include an outer casing, granular material contained within the outer casing, and a vacuum connection. The mask may also include a similarly configured conforming frame. Further disclosed are methods of forming such masks.

WO 2015/170997 A1

Published:

— *with international search report (Art. 21(3))*