



- (51) International Patent Classification:
A61M 16/06 (2006.01)
- (21) International Application Number:
PCT/US2015/000041
- (22) International Filing Date:
26 March 2015 (26.03.2015)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/967,747 26 March 2014 (26.03.2014) US
- (72) Inventor; and
- (71) Applicant : ELLIS, Michael, P. [US/US]; 2845 Rae
Lynn Lane, Milford, MI 48381 (US).
- (74) Agent: CHIATALAS, John, L.; 50325 Ann Arbor Road,
Plymouth, MI 48170 (US).
- (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).

Published:

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

- (88) Date of publication of the international search report:
19 November 2015

(54) Title: CUSHION FOR PATIENT INTERFACE DEVICE, BREATHING MASK WITH CUSHION, AND METHOD AND APPARATUS FOR SAME

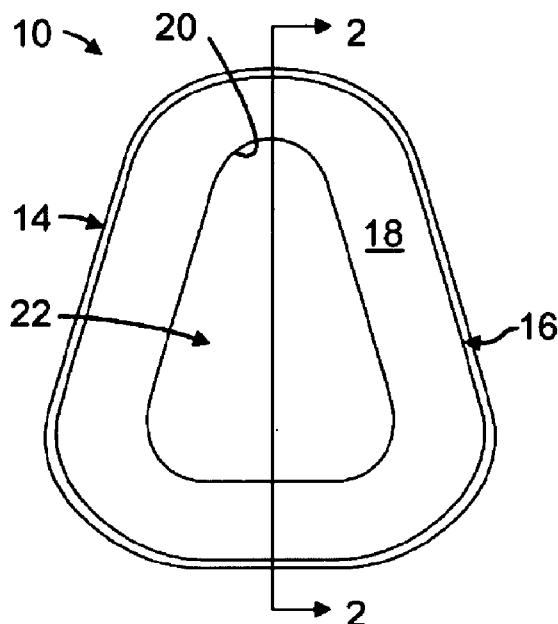


FIG. 1

(57) Abstract: A patient interface device and cushion for the device are respectively disclosed, for preferred CPAP and BiPAP breathing masks. The cushion has a composite structure with an open rounded polygonal profile defining a mask side layer and a slip-resistant fibrous patient side layer, with an intermediate barrier layer positioned between the first and second layers. The layers are integrally bonded together into a three-dimensional conformation defining a J-shaped cross section and an inboard patient side curl opening into an air chamber juxtaposed with one or more of the patient's airways. The body exhibits flexibility between about 4 and about 10 Taber Stiffness Units. Method and apparatus for making the cushion are further described.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 15/00041

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61M 16/06 (2015.01)

CPC - A61M 16/0622

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC8 : A61M 16/06 (2015.01)

CPC : A61M 16/0622

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC8 : A61M 16/00 (2015.01)

CPC: A61M 16/00, 16/06, 16/0605, 16/0611, 16/0616

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Patbase, Google Scholar, Google Patent: fibrous, fiber, fibre, fabric, cloth, woven, knit, fleece, nonslip, slip, resist, layer, laminate, laminar, ply, interface, lined, lining, liner, mask, cushion, pillow, cpap, sleep, apnea, impermeable, breathing, taber, respiratory, nasal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2012/0080035 A1 (GUNEY et al) 05 April 2012 (05.04.2012) see especially para [0300]-[0302], [0305]-[0314], fig 62, 67-73	1-43
A	WO 2013/084109 A1 (CHODOWSKI et al) 13 June 2013 (13.06.2013) see especially para [0042], [0046], fig 3, 4	1-43
A	US 2009/0293880 A1 (RUTAN) 03 December 2009 (03.12.2009) see especially para [0025], fig 1	1-43
A	US 2011/0088698 A1 (BARNETT et al) 21 April 2011 (21.04.2011) see whole document	1-43
A	US 2009/0139525 A1 (SCHIRM) 04 June 2009 (04.06.2009) see whole document	1-43
A	US 2,931,356 A (SCHWARZ) 05 April 1960 (05.04.1960) see whole document	1-43

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Date of the actual completion of the international search

24 June 2015 (24.06.2015)

Date of mailing of the international search report

21 JUL 2015

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-8300

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774