



(51) International Patent Classification:

A61F 5/445 (2006.01) A61F 5/44 (2006.01)
A61F 5/449 (2006.01) A61F 5/448 (2006.01)

(21) International Application Number:

PCT/EP2017/056259

(22) International Filing Date:

16 March 2017 (16.03.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1605516.2 31 March 2016 (31.03.2016) GB

(71) Applicant: UNIVERSITY OF LIMERICK [IE/IE];
Plassey Technology Park, Limerick (IE).

(72) Inventors: HUNT, Rhona; Ardsallagh More, Roscommon
Town, Co. Roscommon (IE). KELLEHER, Kevin; Insti-
tute Road, Bailieborough, Co. Cavan (IE). O'SULLIVAN,
Leonard; An Chearta Runard, Clonlara, Co. Clare (IE).

(74) Agent: PURDY, Hugh, Barry; PurdyLucey Intellectual
Property 6-7 Harcourt Terrace, Dublin, 2 (IE).

(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, 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, 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).

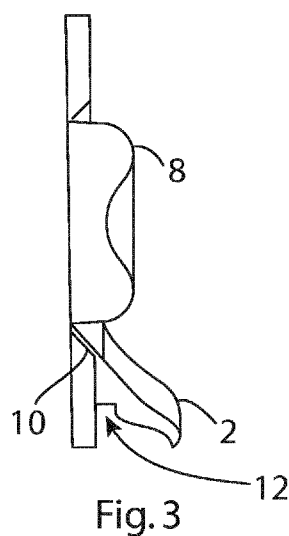
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

04 January 2018 (04.01.2018)

(54) Title: AN OSTOMY ATTACHMENT



(57) Abstract: An ostomy attachment (1) comprises a flexible annular seal (4) configured to embrace a stoma and a spout (2) that in use is disposed beneath the stoma and configured to collect ostomy output at skin level and direct ostomy output away from the patient and annular seal and into an ostomy bag, in which the flexible annular seal is formed from an absorbent material and the spout is formed from a non-absorbent material. The annular seal may be an open ring comprising at least one mouldable arm (7A, 7B) that in use can be wrapped at least partially around the patients' stoma.



INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2017/056259

A. CLASSIFICATION OF SUBJECT MATTER INV. A61F5/445 A61F5/449 A61F5/44 A61F5/448 ADD.		
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) A61F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	EP 0 197 672 A2 (CRAIG MED PROD LTD [GB]) 15 October 1986 (1986-10-15) the whole document	1,7-9, 11-14 4-6,10 2
Y	----- US 2003/004477 A1 (NIELSEN INGER MANN [DK] ET AL) 2 January 2003 (2003-01-02) paragraph [0053] paragraph [0077] - paragraph [0079] paragraph [0098] paragraph [0112]; figures 2,9	4-6,10
Y	----- EP 2 904 996 A1 (T G EAKIN LTD [GB]) 12 August 2015 (2015-08-12) paragraph [0020] - paragraph [0021]; figures ----- -/-	4-6,10
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 25 October 2017		Date of mailing of the international search report 01/12/2017
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Arjona López, G

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2017/056259

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2 563 597 A (J. H. FRIEDMAN) 7 August 1951 (1951-08-07)	10
A	column 2, line 22 - column 4, line 2; figures 1-3	2
A	----- US 2 604 096 A (SMITH HOWARD E) 22 July 1952 (1952-07-22) column 2, line 38 - column 3, line 36; figures	1,4-9, 11-14
A	----- DE 477 583 C (PFAU FA H) 13 June 1929 (1929-06-13) the whole document	1,4-9, 11-14
A	----- GB 217 480 A (HOWARD WILLIAM FRANKLIN) 19 June 1924 (1924-06-19) the whole document	1,4-9, 11-14
A	----- US 2 652 055 A (BARON CHARLOTTE M) 15 September 1953 (1953-09-15) the whole document	1,4-9, 11-14
A	----- GB 555 852 A (BRADLEY & BLISS LTD; EDGAR ALBERT SPICE) 9 September 1943 (1943-09-09) the whole document	1,4-9, 11-14
X	----- US 6 312 415 B1 (NIELSEN INGER MANN [DK] ET AL) 6 November 2001 (2001-11-06)	19,21-28
Y	column 3, line 55 - column 5, line 54; figures	20
Y	----- GB 2 418 861 A (WELLAND MEDICAL LTD [GB]) 12 April 2006 (2006-04-12)	20
A	page 6, line 1 - page 8, line 3; figures	19
A	----- WO 98/55057 A1 (COLOPLAST AS [DK]; NIELSEN INGER MANN [DK]; OLSEN ESKIL HOEJLAND [DK];) 10 December 1998 (1998-12-10) page 5, line 7 - page 10, line 9; figures	19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2017/056259

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 15-18, 29
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 15-18 and 29 essentially define methods of attaching an ostomy attachment to the skin of a patient, which is regarded as not being industrially applicable, since this is performed in the patient's private sphere.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

An ostomy attachment comprising a flexible annular seal configured to embrace a stoma and a spout that in use is disposed beneath the stoma and configured to collect ostomy output at skin level and direct ostomy output away from the patient and annular seal and into an ostomy bag, in which the flexible annular seal is formed from an absorbent material and the spout is formed from a non-absorbent material. A method for attaching an ostomy bag comprising said ostomy attachment.

2. claims: 19-28

A modular two-part fixing plate for an ostomy bag comprising a reusable outer ring having an inner skin-abutting side comprising a hypoallergenic skin-safe adhesive and a protecting layer on the outer side, and a non-reusable inner ring configured for removable engagement with the outer ring and comprising a mouldable annulus with a central aperture configured to embrace a stoma during use and an annular housing configured to support the hydrocolloid annulus and provide a landing site for an ostomy bag. A method of using said modular two-part fixing plate for an ostomy bag.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2017/056259

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0197672	A2	15-10-1986	AU 5365086 A 18-09-1986
		CA 1265015 A 30-01-1990	
		DK 118986 A 16-09-1986	
		EG 17722 A 30-03-1991	
		EP 0197672 A2 15-10-1986	
		GB 2172204 A 17-09-1986	
		GR 860691 B 14-07-1986	
		JP S61220649 A 30-09-1986	
		NO 860992 A 16-09-1986	
		NZ 215169 A 30-06-1988	
		US 4867749 A 19-09-1989	
		ZA 8601188 B 24-09-1986	
US 2003004477	A1	02-01-2003	AT 320779 T 15-04-2006
		AU 721675 B2 13-07-2000	
		CA 2269575 A1 30-04-1998	
		CN 1233945 A 03-11-1999	
		DE 69735550 T2 28-12-2006	
		DK 0998247 T3 31-07-2006	
		EP 0998247 A1 10-05-2000	
		ES 2260801 T3 01-11-2006	
		JP 4584360 B2 17-11-2010	
		JP 2001502570 A 27-02-2001	
		NO 991905 A 22-06-1999	
		US 2003004477 A1 02-01-2003	
		WO 9817212 A1 30-04-1998	
EP 2904996	A1	12-08-2015	AU 2015200635 A1 27-08-2015
		CA 2881491 A1 11-08-2015	
		EP 2904996 A1 12-08-2015	
		GB 2525711 A 04-11-2015	
		JP 2015150434 A 24-08-2015	
		US 2015223966 A1 13-08-2015	
US 2563597	A	07-08-1951	NONE
US 2604096	A	22-07-1952	NONE
DE 477583	C	13-06-1929	NONE
GB 217480	A	19-06-1924	NONE
US 2652055	A	15-09-1953	NONE
GB 555852	A	09-09-1943	NONE
US 6312415	B1	06-11-2001	AT 219914 T 15-07-2002
		AU 7425798 A 30-12-1998	
		DE 69806380 D1 08-08-2002	
		DE 69806380 T2 23-01-2003	
		DK 59797 A 08-02-1999	
		DK 0984751 T3 28-10-2002	
		EP 0984751 A1 15-03-2000	
		ES 2177008 T3 01-12-2002	
		US 6312415 B1 06-11-2001	
		WO 9853772 A1 03-12-1998	
GB 2418861	A	12-04-2006	GB 2418861 A 12-04-2006

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2017/056259

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		WO 2006038025 A1	13-04-2006
WO 9855057	A1	10-12-1998	
		AT 265193 T	15-05-2004
		AU 7640198 A	21-12-1998
		DE 69823508 D1	03-06-2004
		DE 69823508 T2	14-04-2005
		EP 0991382 A1	12-04-2000
		ES 2218826 T3	16-11-2004
		WO 9855057 A1	10-12-1998