

(51) International Patent Classification:
A41D 13/018 (2006.01)(21) International Application Number:
PCT/IB2014/000243(22) International Filing Date:
17 February 2014 (17.02.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1302666.1 15 February 2013 (15.02.2013) GB(71) Applicant: **HELITE** [FR/FR]; Cd7, F-21380 Messigny Et Vantoux (FR).(72) Inventors: **THEVENOT, Gérard**; Cd7, F-21380 Messigny Et Vantoux (FR). **QUARREY, Alexandre**; Cd7, F-21380 Messigny Et Vantoux (FR). **BEGUE, Emmanuelle**; Cd7, F-21380 Messigny Et Vantoux (FR). **MARNIER, Benjamin**; Cd7, F-21380 Messigny Et Vantoux (FR).(74) Agents: **DUPIRE, Philippe** et al.; Cabinet Plasseraud, 235 Cours Lafayette, F-69006 Lyon (FR).(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, LT, 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.

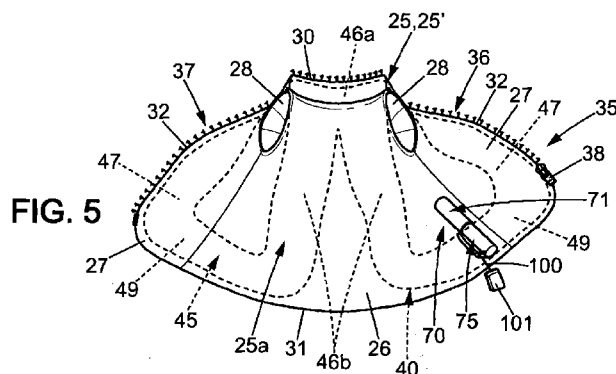
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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:
6 November 2014

(54) Title: PERSONAL PROTECTIVE EQUIPMENT FOR PROTECTING A USER



(57) Abstract: Personal protective equipment (1), comprising: a garment adapted to cover at least the user's bust; an airbag system (40) comprising an inflatable chamber (45) conformed to protect at least a part of the user's bust, and an actuation device (70), the inflatable chamber (45) presenting an inactive state and an active state; a lining (25) adapted to cover at least a part of an inner surface of the garment, the lining (25) including internally the inflatable chamber (45), the garment and the lining (25) being adapted to enable the inflatable chamber (45) to pass from the inactive state to the active state; an attaching system (35) adapted to removably attach the lining (25) to the garment.

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2014/000243

A. CLASSIFICATION OF SUBJECT MATTER
INV. A41D13/018
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)

A41D

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)

EP0-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.
A	WO 2011/148353 A1 (FRENI BREMBO SPA) 1 December 2011 (2011-12-01) cited in the application claim 1; figures 1,10 -----	1-17
X,P	WO 2014/001189 A1 (ALPINESTARS RES SRL [IT]) 3 January 2014 (2014-01-03) page 3, line 30 - page 4, line 30; figures 1,5,8 -----	1-5,7-17
X,P	EP 2 671 463 A1 (DAINESE SPA [IT]) 11 December 2013 (2013-12-11) paragraphs [0019] - [0027]; examples 4,6 -----	1-5,7-17
A	US 2008/178370 A1 (ORITA MASAYOSHI [JP] ET AL) 31 July 2008 (2008-07-31) claim 1; figure 2 -----	1

☐ 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

5 August 2014

Date of mailing of the international search report

13/08/2014

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

D'Souza, Jennifer

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2014/000243

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2011148353 A1	01-12-2011	EP 2575517 A1 WO 2011148353 A1	10-04-2013 01-12-2011

WO 2014001189 A1	03-01-2014	NONE	

EP 2671463 A1	11-12-2013	NONE	

US 2008178370 A1	31-07-2008	DE 102008004464 A1 JP 4931624 B2 JP 2008184135 A US 2008178370 A1	07-08-2008 16-05-2012 14-08-2008 31-07-2008
