

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 June 2006 (29.06.2006)

PCT

(10) International Publication Number
WO 2006/069007 A3

- (51) International Patent Classification:
G21C 11/00 (2006.01) G21C 5/00 (2006.01)
G21F 1/00 (2006.01)
- (21) International Application Number:
PCT/US2005/045968
- (22) International Filing Date:
16 December 2005 (16.12.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11/019,952 20 December 2004 (20.12.2004) US
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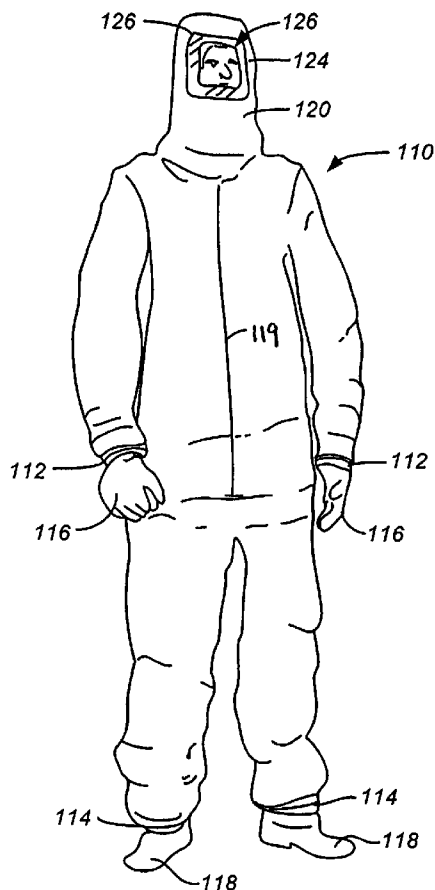
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: RADIATION DETECTABLE AND PROTECTIVE ARTICLES



(57) Abstract: Compositions and processes for forming radiopaque polymeric articles are disclosed. In one embodiment, radiation inspection apparatuses and methods are then used to determine the presence and attributes of such radiopaque polymeric articles. A radiopaque polymeric article of the present invention can be created by mixing a radiopaque material, such as barium, bismuth, tungsten or their compounds, with a powdered polymer, pelletized polymer or liquid solution, emulsion or suspension of a polymer in solvent or water. In addition to creating radiation detectable objects, the radiopaque polymeric materials of the present invention can be used to create radiation protective articles, such as radiation protective garments and bomb containment vessels. Enhanced radiation protection can also be achieved through the use of nano-materials. The principals of the present invention can be used to provide protection against other types of hazards, including fire, chemical, biological and projectile hazards. The full body suit (110) can also include hook and loop fasteners or a zipper flap (119) to allow the user to easily enter the full body suit (110). A transparent eye shield (124) is preferably included with the full body suit to provide protection for the face.

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European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report*

(88) Date of publication of the international search report:
25 September 2008

(15) Information about Correction:

Previous Correction:

see Notice of 17 August 2006

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/45968

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G21C 11/00(2006.01);G21F 1/00(2006.01)
G21C 5/00(2006.01)

USPC: 250/515.1,517.1,519.1

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)

U.S. : 250/515.1, 517.1, 519.1

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)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	5.148.040 (WISE JR. ET AL) 15 SEPTEMBER 1992 (15.09.1992) SEE ENTIRE DOCUMENT	1-33
A	5149203 (SACKS) 22 SEPTEMBER 1992 (22.09.1992), SEE ENTIRE DOCUMENT	34-41
A	6805815 (SOUNDARAJAN) 19 OCTOBER 2004 (19.10.2004), SEE ENTIRE DOCUMENT	42-54, 60
A	6447439 10 SEPTEMBER 2002 (10.09.2002), SEE ENTIRE DOCUMENT	70
A	5814824 (HAMBY ET AL) 29 SEPTEMBER 1998 (29.09.2002), SEE ENTIRE DOCUMENT	55-59, 65, 71-77
A	5548125 (SANDBANK) 20 AUGUST 1996 (20.08.1996), SEE ENTIRE DOCUMENT	61-62, 66-67, 78-79
A	5220175 (COLE) 15 JUNE 1993 (15.06.1993), SEE ENTIRE DOCUMENT	63-64, 68-69, 80-81

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See patent family annex.

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"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	"&"	document member of the same patent family

Date of the actual completion of the international search

08 June 2008 (08.06.2008)

Date of mailing of the international search report

15 JUL 2008

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