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(71) Applicant (for all designated States except US): **STEM-RAD LTD.** [IL/IL]; 4 Berkowitz St., Museum Tower, 64238 Tel-Aviv (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MILSTEIN, Oren** [US/US]; 13931 Via Rimini, San Diego, California 92129 (US).

(74) Agents: **Cohen, Mark, S.** et al.; Pearl Cohen Zedek Latzer LLP, 1500 Broadway, 12th Floor, New York, New York 10036 (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, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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.

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(54) Title: RADIATION PROTECTION DEVICE AND METHODS THEREOF

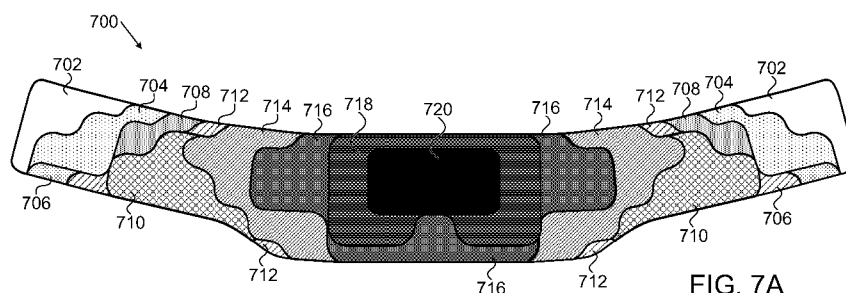


FIG. 7A

(57) Abstract: A radiation protection device for providing protection of a body part that includes active bone marrow from ionizing radiation may include a radiation protection component configured to be placed adjacent to and externally cover the body part so as to reduce a radiation dose absorbed in that body part.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/037335**A. CLASSIFICATION OF SUBJECT MATTER***A42B 3/00(2006.01)i, A41D 13/00(2006.01)i, A41F 9/00(2006.01)i*

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)

A42B 3/00; A61K 9/14; G21F 3/02; G21F 1/00; C08L 89/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: radiation, irradiation, protect, proof

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007-0237829 A1 (DADACHOVA, EKATERINA et al.) 11 October 2007 See abstract; paragraphs [34]-[44] and paragraph [82].	1-3, 16-18, 29, 31, 33, 35, 37-39
A		4-15, 19-28, 30, 32, 34, 36, 41, 42
A	KR 10-2001-0095618 A (Ha, Jong Kwan et al.) 07 November 2001 See claims 1, 2.	1-39, 41, 42
A	US 2008-0272318 A1 (CADWALADER, JOHN A. et al.) 06 November 2008 See paragraph [31].	1-39, 41, 42



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

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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

"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

28 NOVEMBER 2012 (28.11.2012)

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Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan
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Authorized officer

Choi Hae Young

Telephone No. 3359



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/037335**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.:
because they relate to subject matter not required to be searched by this Authority, namely:
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.: 40
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:

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 fee, this Authority did not invite payment of any additional fee.
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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/037335

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007-0237829 A1	11.10.2007	WO 2006-124056 A2 WO 2006-124056 A3	23.11.2006 23.11.2006
KR 10-2001-0095618 A	07.11.2001	None	
US 2008-0272318 A1	06.11.2008	None	