US00D533472S

(12) United States Design Patent

Widener et al.

(10) Patent No.: US D533,472 S
(45) Date of Patent: ** Dec. 12, 2006

(54) **EXTERNAL DOSIMETER PATCH**

(75) Inventors: **Steven Widener**, Wake Forest, NC (US); **John Carroll**, Wake Forest, NC (US)

(73) Assignee: **Sicel Technologies, Inc.**, Morrisville, NC (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/212,259**

(22) Filed: **Aug. 30, 2004**

(51) **LOC (8) Cl.** **10-04**

(52) **U.S. Cl.** **D10/47**

(58) **Field of Classification Search** ..... D10/47; 250/370.01, 370.07, 370 F, 473.1, 474.1, 250/484.3, 484.4; 356/319, 328; 600/436
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D287,700	S	*	1/1987	Pollock et al.	D10/47
D287,828	S	*	1/1987	Pollock et al.	D10/47
4,804,847	A		2/1989	Uber, III	250/370 F
D325,171	S	*	4/1992	Laffaille	D10/47
5,117,113	A		5/1992	Thomson et al.	250/370.07
5,444,254	A		8/1995	Thomson	250/370.07
5,844,681	A	*	12/1998	Alessi et al.	356/319
6,232,610	B1	*	5/2001	Pageau et al.	250/474.1

(Continued)

FOREIGN PATENT DOCUMENTS

DE	3332075	A1	3/1984
EP	0364045	A1	10/1989
EP	0471957	A2	2/1992
EP	0537761	A2	4/1993
WO	WO95/17809		7/1995
WO	WO98/58250		12/1998
WO	WO02/09775	A2	2/2002
WO	WO02/100485	A1	12/2002
WO	WO03/047694	A2	6/2003

OTHER PUBLICATIONS

Widener, et al., *OneDose Surface Dosimeter*, Sicel Technologies Inc., 1 sheet, Aug. 2003.

(Continued)

Primary Examiner—Antoine D. Davis
(74) *Attorney, Agent, or Firm*—Myers Bigel Sibley & Sajovec PA

(57) **CLAIM**

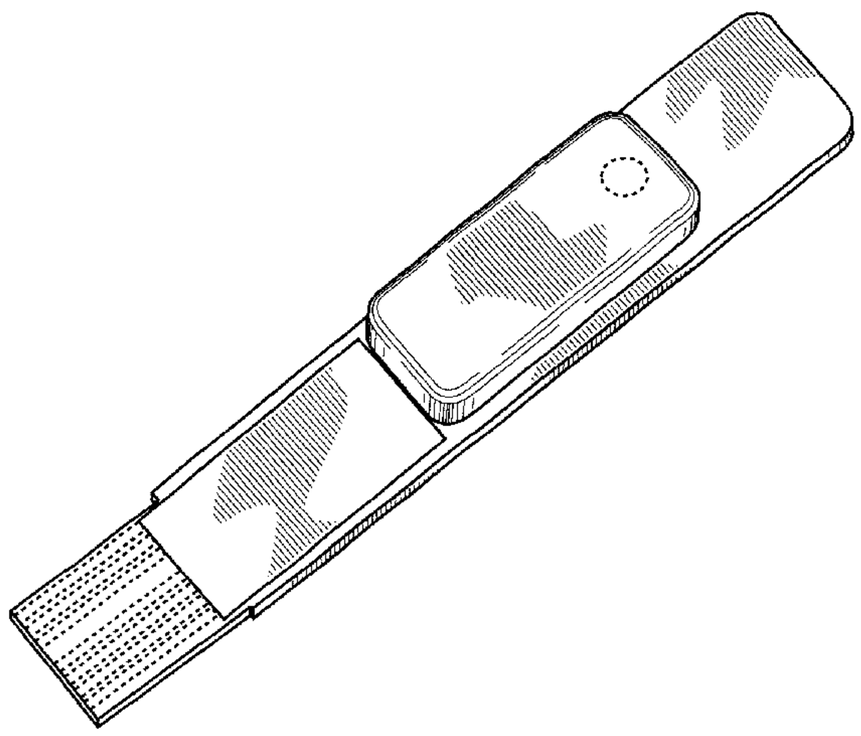
The ornamental design for an external dosimeter patch, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of the external dosimeter patch showing our design;
FIG. **2** is front view thereof;
FIG. **3** is a side view thereof;
FIG. **4** is a rear view thereof;
FIG. **5** is an end view thereof;
FIG. **6** is an opposing end view thereof; and,
FIG. **7** is a front perspective view of another alternative embodiment of an external dosimeter patch illustrating our design. The rear surface of this embodiment is disclaimed and the end and side views generally correspond to FIGS. **2–6** but with the shape of the lower tab portion being disclaimed.

The broken lines shown herein are for illustrative purposes only and form no part of the claimed design. The illustrated device is not limited to the scale shown. The broken lines on the rear surface shown in FIG. **4** illustrates an adhesive material which may be used to attach the external dosimeter patch to a user. As shown by the shading and stippling on selected surfaces in FIG. **7**, in some embodiments, the external dosimeter patch can be configured as a strip of a thin substrate with an outer surface comprising a black raised surface (as represented by the dark shading) and a proximately positioned planar white surface (as represented by the stippling).

1 Claim, 2 Drawing Sheets



U.S. PATENT DOCUMENTS

6,583,425	B1 *	6/2003	Warner	250/472.1
6,614,025	B1	9/2003	Thomson et al.	250/370.01
6,650,930	B1	11/2003	Ding	600/436
6,696,691	B1 *	2/2004	Foos et al.	250/484.4
6,852,987	B1 *	2/2005	Steklenski et al.	250/484.4

OTHER PUBLICATIONS

National Aeronautics and Space Administration, *Extravehicular Activity Radiation Monitoring (EVARM)*, Fact Sheet FS 2001–11–191–MSFC, abstract review, Oct. 2001.

Ranii, D., N&O Article, *Sicel seeks go–ahead for clinical trials*. Apr. 17, 2002.

Rainii, D., N&O Article, *Company's device aims to monitor disease from inside*. Mar. 30, 2000.

Mathur, V.K, *Ion storage dosimetry*, Nuclear Instruments and Methods in Physics Research B, vol. 184 pp. 190–206 (2001).

Gratz et al., *Smart card for detection of alpha radiation sensors and actuators*61 pp. 431–435 (1997).

Barthe, Jean, *Electronic dosimeters based on solid state detectors, Nuclear. Instruments. and Methods in Physics Research Sec. B vol. 184*, pp. 158–189 (2001).

* cited by examiner

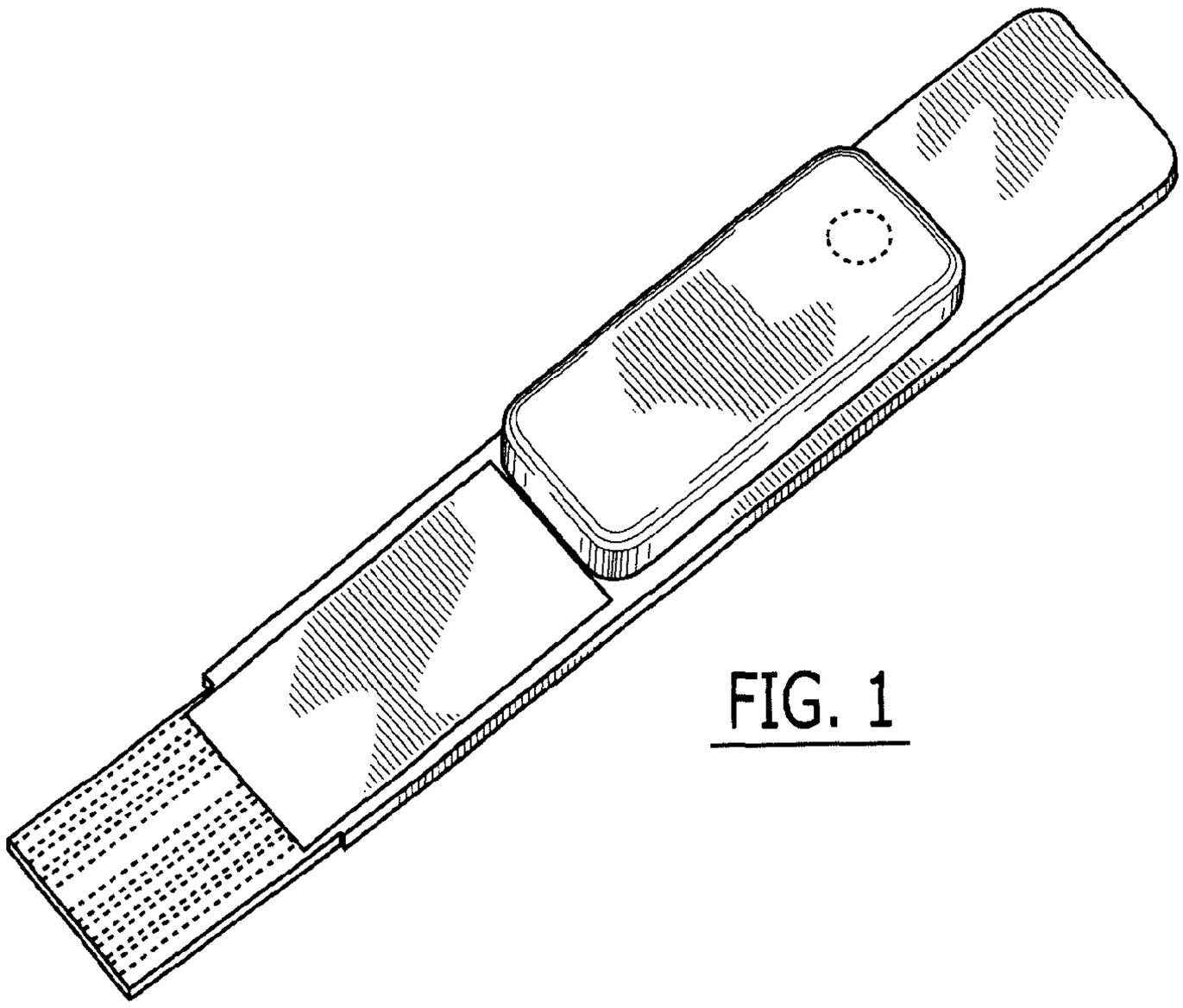


FIG. 1

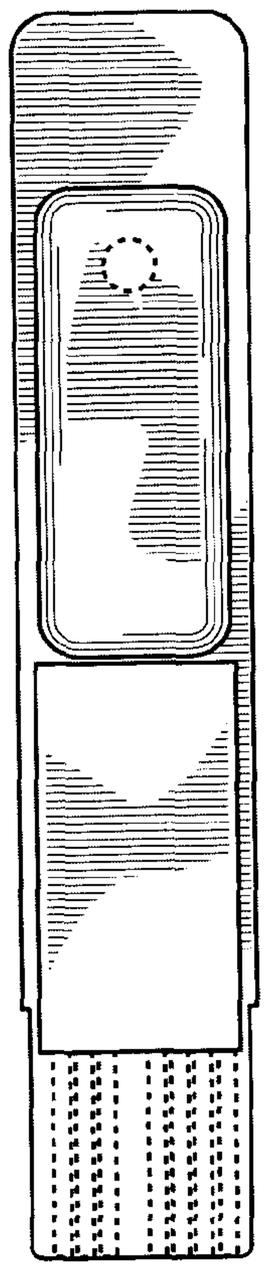


FIG. 2

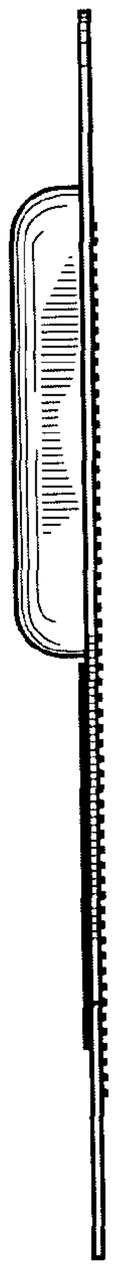


FIG. 3

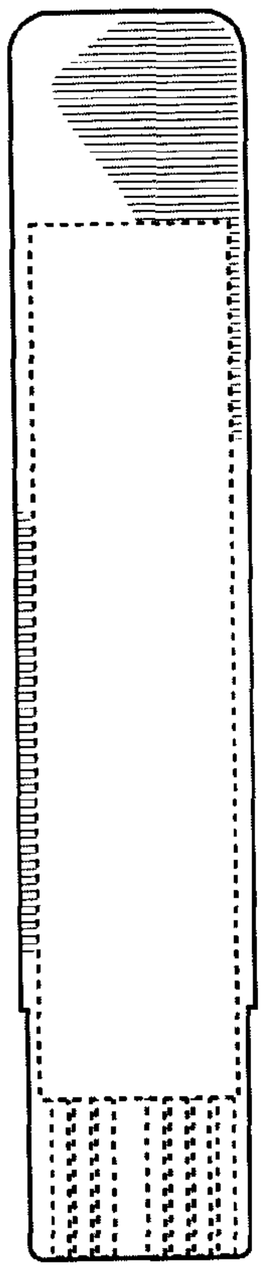


FIG. 4

FIG. 5

FIG. 6

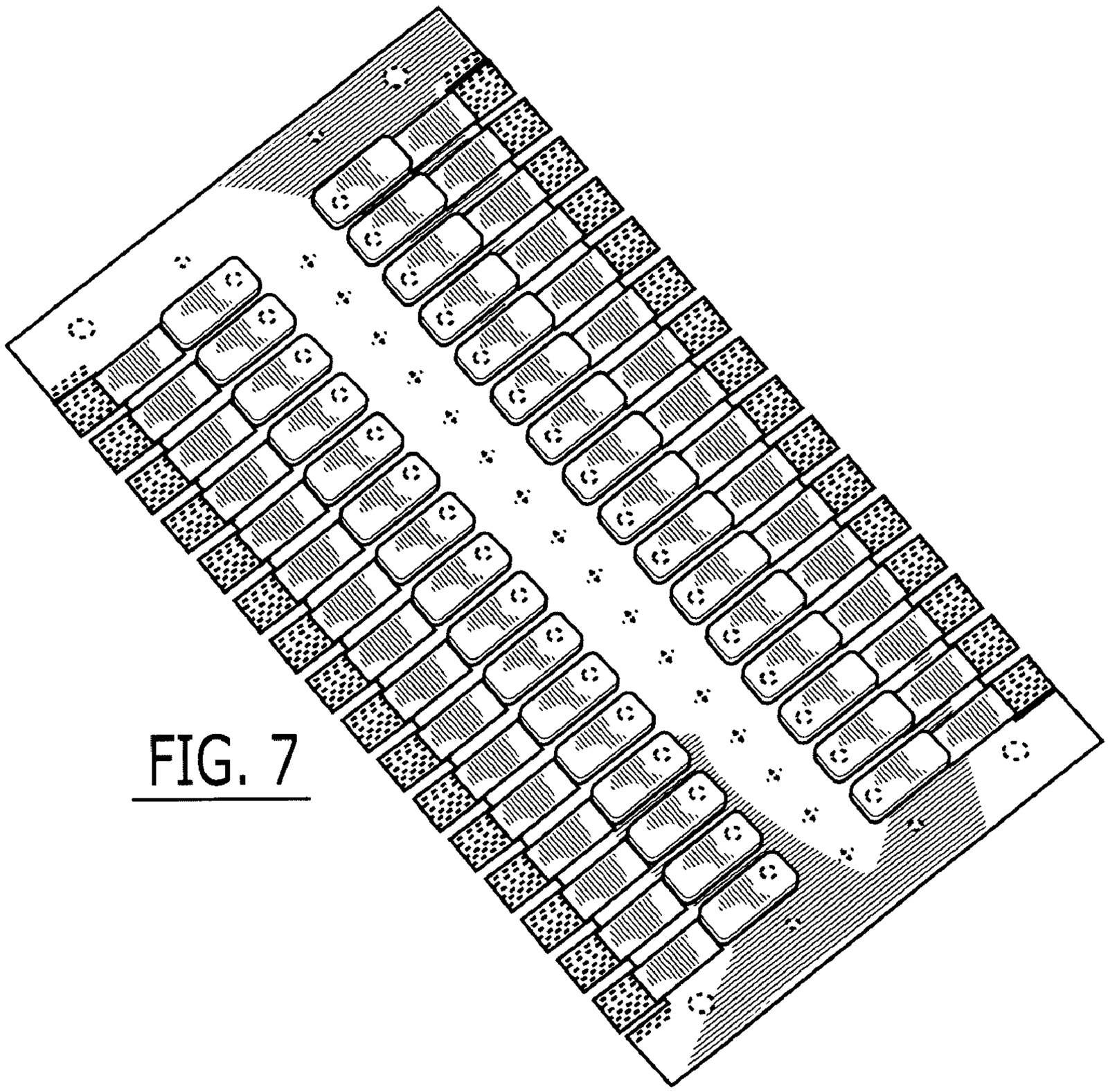


FIG. 7