



US00D744643S

(12) **United States Design Patent**
Eckstein et al.

(10) **Patent No.:** **US D744,643 S**

(45) **Date of Patent:** **** Dec. 1, 2015**

(54) **PLUNGER**

(71) Applicant: **3M INNOVATIVE PROPERTIES COMPANY**, St. Paul, MN (US)

(72) Inventors: **Stefan Eckstein**, München (DE); **Andreas Boehm**, Reichling (DE); **Marc Peuker**, Schöndorf (DE)

(73) Assignee: **3M Innovative Properties Company**, St. Paul, MN (US)

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

(21) Appl. No.: **29/486,601**

(22) Filed: **Apr. 1, 2014**

(30) **Foreign Application Priority Data**

Oct. 3, 2013 (EP) 1385975

(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**

USPC **D24/130**

(58) **Field of Classification Search**

USPC D24/130, 112-114, 133, 186, 104, 127;
606/181, 185; 604/264, 272, 115, 232,
604/187, 158, 164.08, 192, 263, 163, 181,
604/184, 198, 227

CPC F04B 47/12; F04B 53/143; E21B 43/121;
E03C 1/308

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,739,947 A 6/1973 Baumann
D287,877 S 1/1987 Holewinski
4,941,752 A 7/1990 Yant
5,324,273 A 6/1994 Discko, Jr.
5,392,904 A 2/1995 Frick
5,437,647 A * 8/1995 Firth et al. 604/110

5,738,655 A * 4/1998 Vallelunga et al. 604/110
D401,325 S * 11/1998 Hjertman et al. D24/114
D419,236 S 1/2000 Carlson
D421,121 S 2/2000 Prasad
D436,661 S * 1/2001 Berry D24/141
D472,323 S 3/2003 Sand
6,884,071 B2 4/2005 Martin
D574,954 S * 8/2008 Smith D24/114
7,562,792 B2 7/2009 Nisbet
D618,347 S * 6/2010 Bradshaw D24/141
D645,958 S 9/2011 Assmann
D657,867 S * 4/2012 Effenberger D24/114
D672,837 S 12/2012 An
D681,808 S 5/2013 Holaschke
D690,417 S * 9/2013 Solomon D24/114
D690,813 S 10/2013 Bizzell

(Continued)

OTHER PUBLICATIONS

Tetric EvoCeram® Bulk Fill, Nano-Hybrid Composite with Ivocerin, Ivoclar Vivodent©, 2013, 6 pages.

(Continued)

Primary Examiner — David Muller

Assistant Examiner — Nathan Johnston

(57) **CLAIM**

The ornamental design for a plunger, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view showing the new design for a plunger;

FIG. 2 is a right side elevation view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

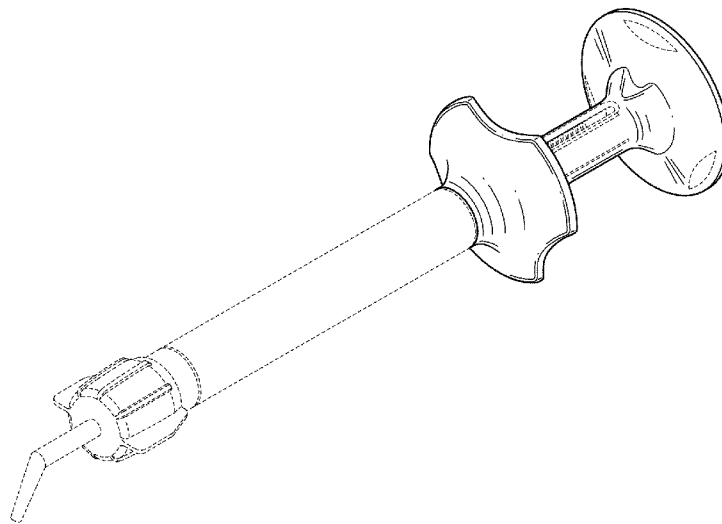
FIG. 5 is a left side elevation view thereof;

FIG. 6 is a front elevation view thereof; and,

FIG. 7 is a back elevation view thereof.

The features shown in broken lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D693,940 S 11/2013 Walter
D696,787 S 12/2013 Walter
D698,918 S 2/2014 Leiner
D721,803 S * 1/2015 Dubach D24/114
2004/0030345 A1 * 2/2004 Aurin et al. 606/92
2006/0173411 A1 * 8/2006 Barere 604/110
2009/0020561 A1 * 1/2009 Keller 222/145.1
2010/0240004 A1 9/2010 Zalsman

2011/0056985 A1 3/2011 Bubleitz
2013/0101955 A1 4/2013 Broyles
2013/0116628 A1 * 5/2013 Kulshrestha et al. 604/227
2013/0260335 A1 10/2013 Peuker

OTHER PUBLICATIONS

Tetric EvoCeram & Tetric EvoFlow®, Ivoclar Vivodent, Oct. 29, 2013, 10 pages.

* cited by examiner

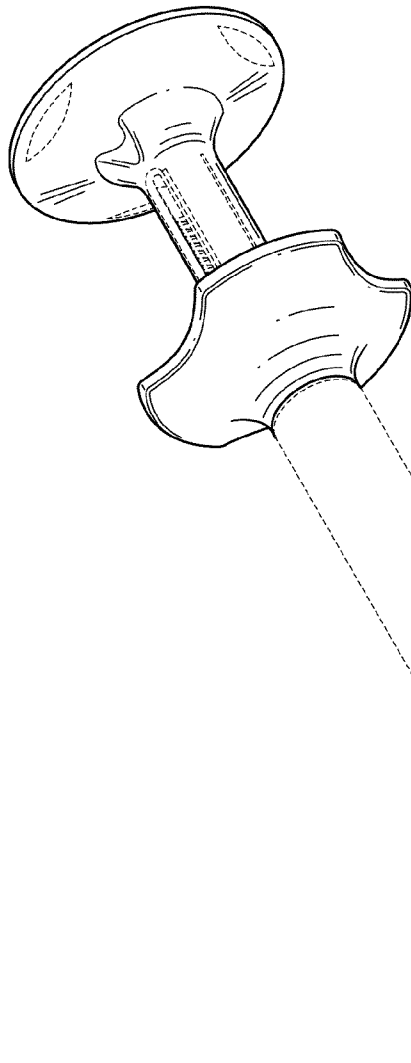
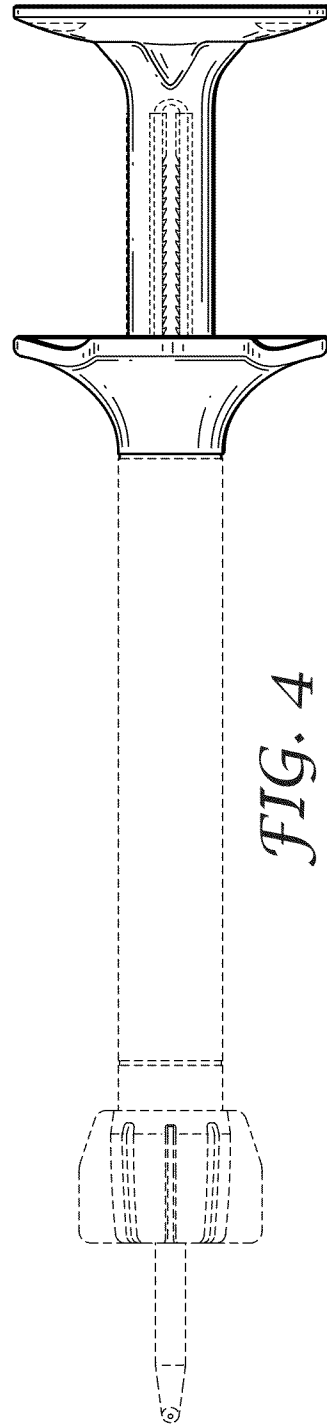
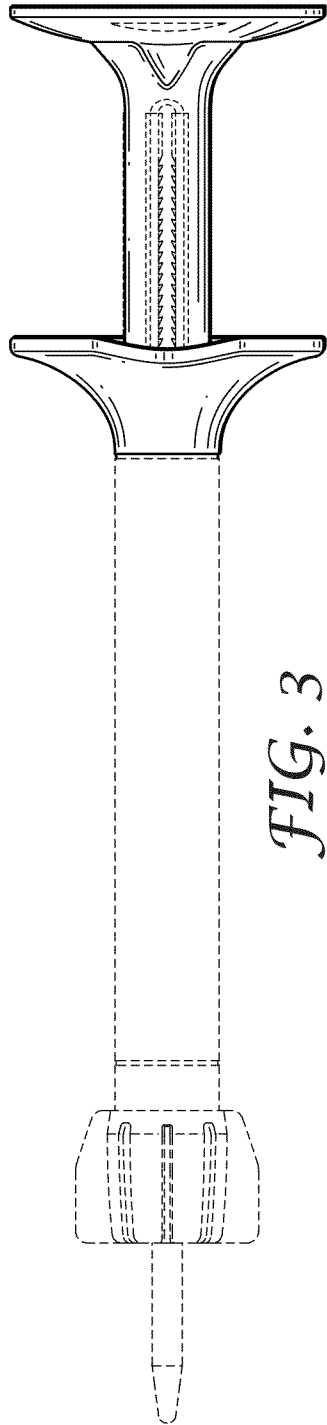


FIG. 1



FIG. 2



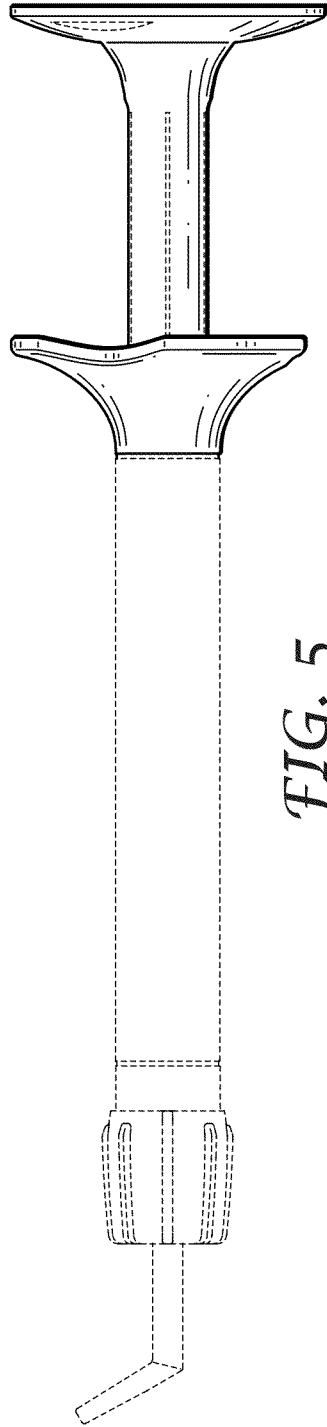


FIG. 5

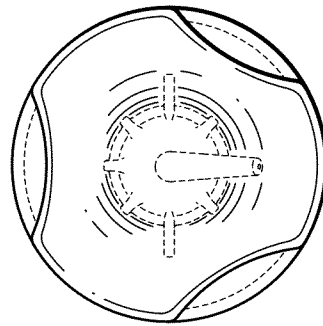


FIG. 6

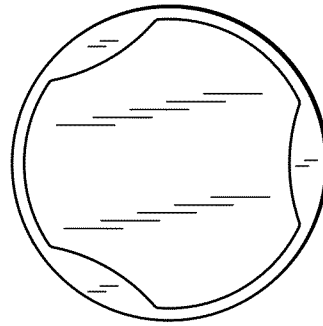


FIG. 7