

(12) **United States Design Patent** (10) **Patent No.:** **US D809,123 S**
Ishikawa et al. (45) **Date of Patent:** **** Jan. 30, 2018**

(54) **LIQUID INJECTION DEVICE FOR MEDICAL USE**

(71) Applicant: **SEIKO EPSON CORPORATION,**
Tokyo (JP)

(72) Inventors: **Takeshi Ishikawa,** Azumino (JP); **Toru Kurihara,** Matsumoto (JP); **Takahiro Matsuzaki,** Shiojiri (JP)

(73) Assignee: **SEIKO EPSON CORPORATION,**
Tokyo (JP)

(**) Term: **15 Years**

(21) Appl. No.: **29/595,361**

(22) Filed: **Feb. 28, 2017**

(30) **Foreign Application Priority Data**

Aug. 31, 2016 (JP) 2016-018618

(51) **LOC (11) Cl.** **24-01**

(52) **U.S. Cl.**
USPC **D24/108**

(58) **Field of Classification Search**
USPC D24/108, 110, 110.5, 111, 113, 133, 144
CPC A61B 2217/007; A61B 2217/005; A61M 1/0058; A61M 3/0258; A61M 1/0064
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,487,600 A * 12/1984 Brownlie A61M 1/008
433/95
D279,924 S * 7/1985 Osgood D23/226
D378,939 S * 4/1997 Smith D24/112
D418,223 S * 12/1999 Phipps D24/133
D483,475 S * 12/2003 Kirwan D24/108
D507,649 S * 7/2005 Padain D24/144

D533,274 S * 12/2006 Visconti D24/133
D630,728 S * 1/2011 Dombrowski D24/108
D674,082 S * 1/2013 Efinger D24/108
D743,030 S * 11/2015 Jayaraj D24/144
2004/0082951 A1 * 4/2004 O'Halloran A61B 18/1485
606/45
2007/0244425 A1 * 10/2007 Pond A61C 17/0208
604/27
2014/0207056 A1 * 7/2014 Bono A61M 3/0283
604/34
2014/0296894 A1 * 10/2014 Kojima A61B 17/3203
606/167
2017/0245877 A1 * 8/2017 Yamasaki A61B 17/3203
2017/0246360 A1 * 8/2017 Yamasaki A61M 1/0039

* cited by examiner

Primary Examiner — Barbara Fox

Assistant Examiner — Lilyana Bekic

(57) **CLAIM**

The ornamental design for a liquid injection device for medical use, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and right side perspective view of a liquid injection device for medical use showing our new design;
 FIG. 2 is a rear, bottom, and left side perspective view thereof;
 FIG. 3 is a front view thereof;
 FIG. 4 is a rear view thereof;
 FIG. 5 is a top view thereof;
 FIG. 6 is a bottom view thereof;
 FIG. 7 is a right side view thereof; and,
 FIG. 8 is a left side view thereof.

The broken lines illustrate portions of the liquid injection device for medical use and form no part of the claimed design.

1 Claim, 8 Drawing Sheets

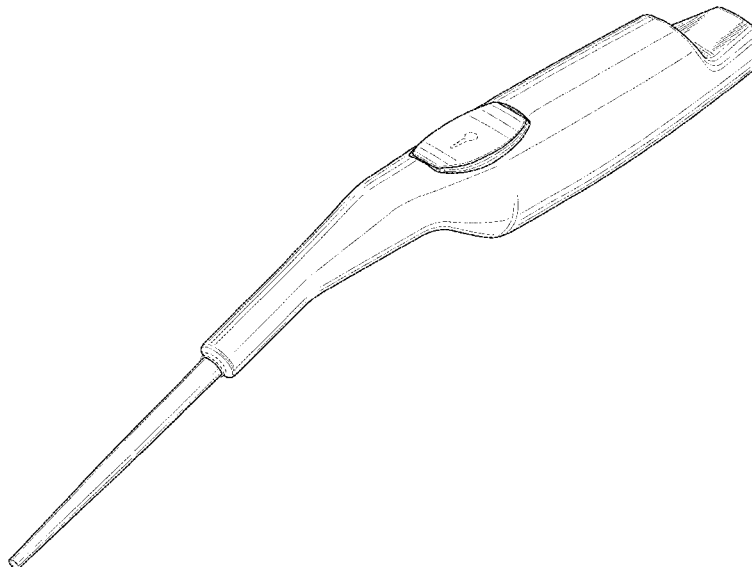


FIG. 1

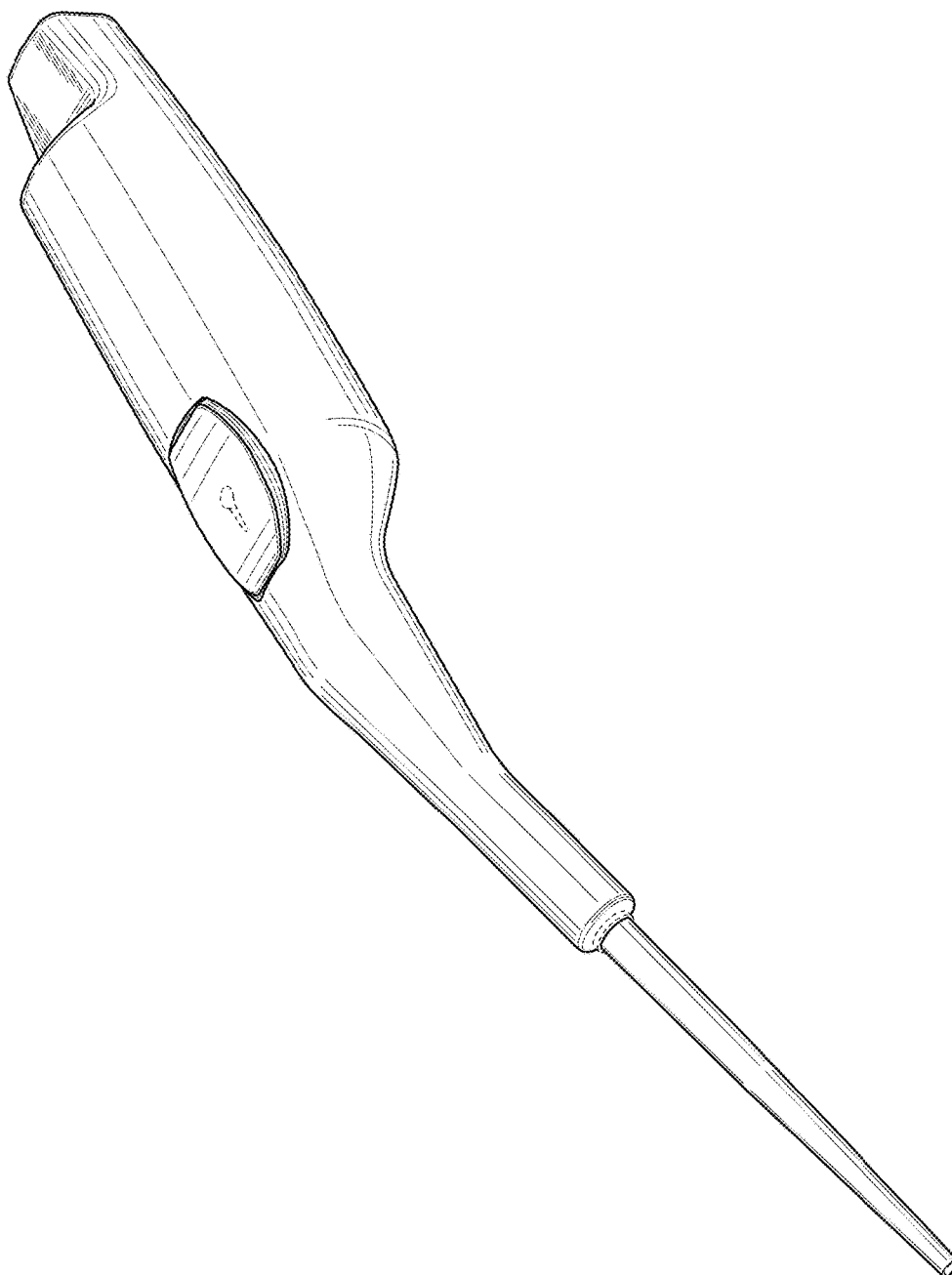


FIG. 2

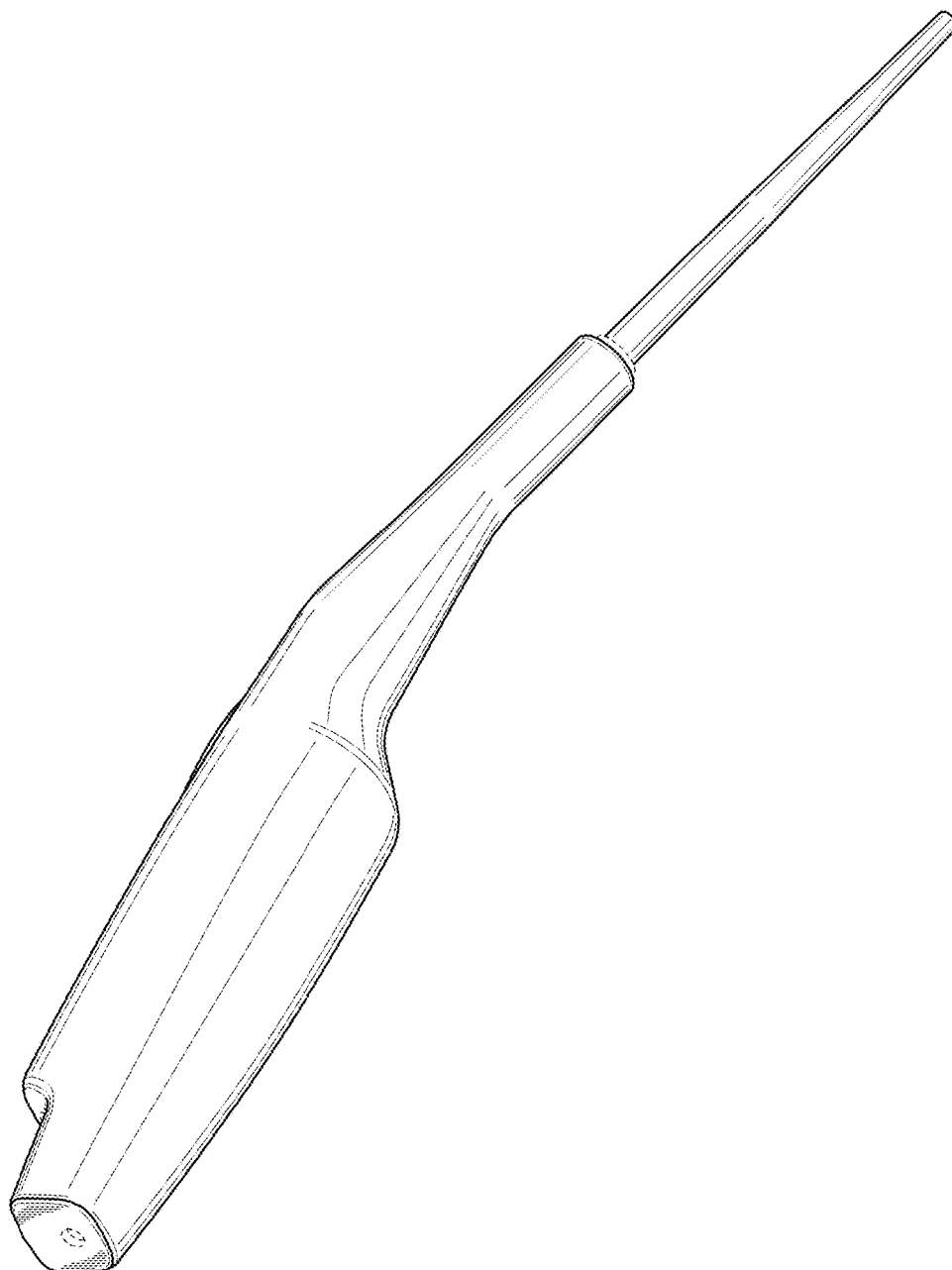


FIG. 3

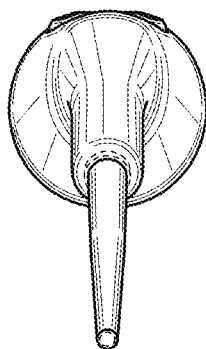


FIG. 4

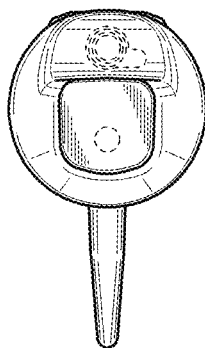


FIG. 5

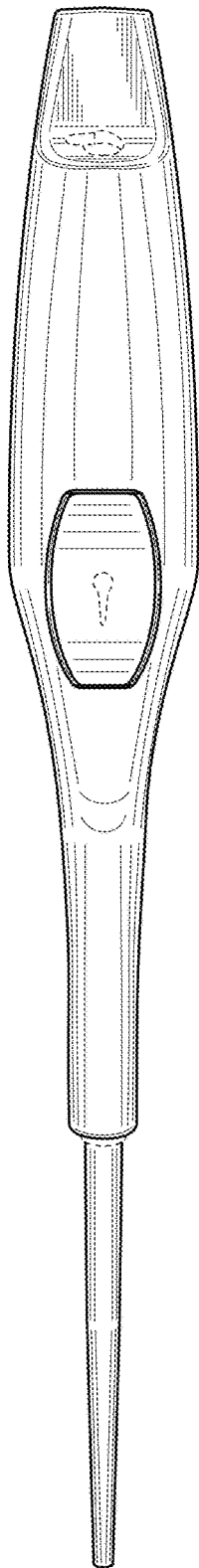


FIG. 6

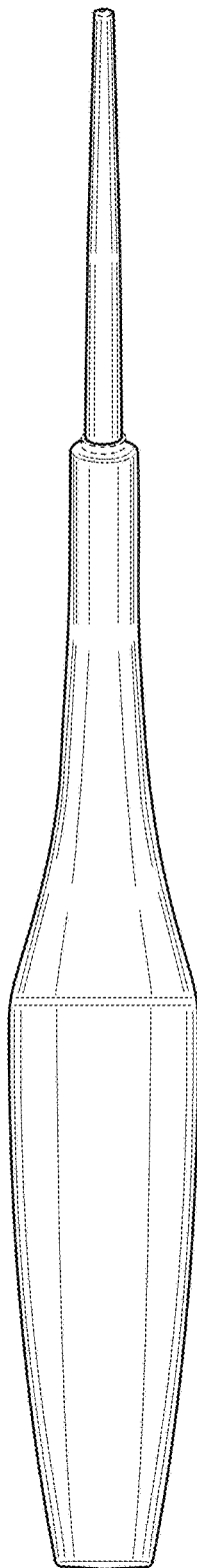


FIG. 7

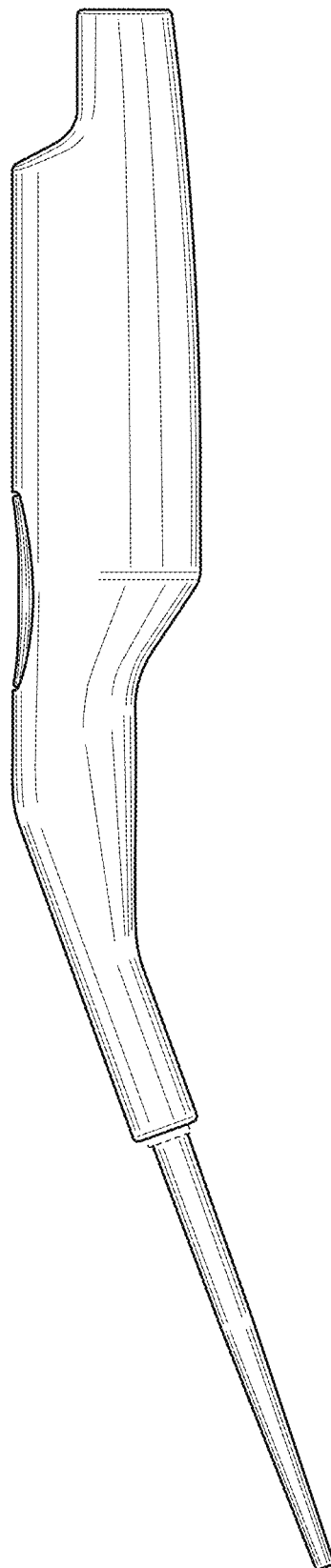


FIG. 8

