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(12) **United States Design Patent**
Umemura

(10) **Patent No.:** **US D812,746 S**
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(54) **BODY OF OPERATING UNIT OF
TREATMENT TOOL FOR ENDOSCOPE**

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(JP)

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (11) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/133; D24/138**

(58) **Field of Classification Search**

USPC D24/138; 606/1, 45, 47, 104, 110, 142,
606/206; 600/104

CPC A61B 17/00; A61B 17/42; A61B 17/2812;
A61B 17/282; A61B 17/29; A61B
17/4225

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,903,892 A * 9/1975 Komiya A61B 1/00098
606/110
4,043,323 A * 8/1977 Komiya A61B 1/018
600/104
4,467,802 A * 8/1984 Maslanka A61B 17/221
294/100
5,084,054 A * 1/1992 Bencini A61B 17/2909
606/113

5,766,184 A * 6/1998 Matsuno A61B 17/00234
604/15
5,993,474 A * 11/1999 Ouchi A61B 17/221
606/113
6,090,129 A * 7/2000 Ouchi A61B 17/221
606/113
6,210,398 B1 * 4/2001 Ouchi A61B 17/2909
600/184
6,814,745 B2 * 11/2004 Prestel A61B 10/06
606/205
7,306,587 B2 * 12/2007 O'Sullivan A61B 18/14
606/1

(Continued)

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(57) **CLAIM**

The ornamental design for a body of operating unit of treatment tool for endoscope, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and right side perspective view of a body of operating unit of treatment tool for endoscope, showing my 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 left side view thereof;

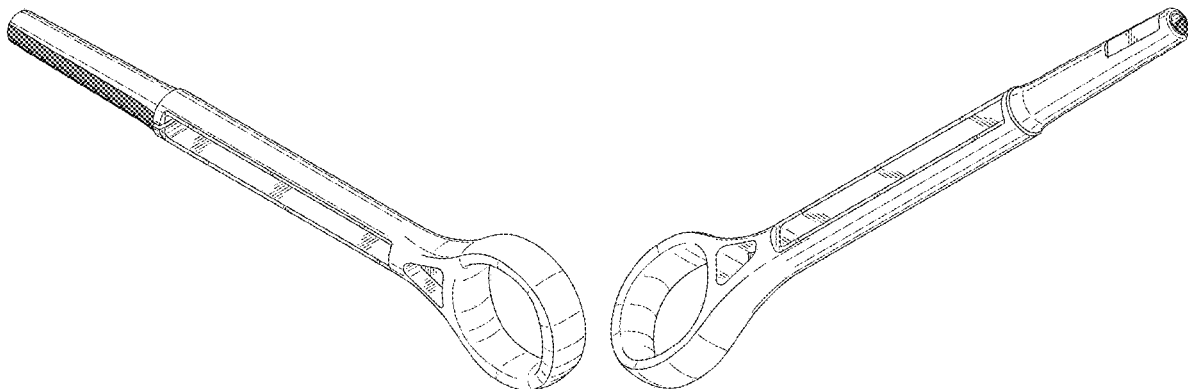
FIG. 8 is a right side view thereof;

FIG. 9 is a cross sectional view thereof, taken along the line 9-9 in FIG. 3; and,

FIG. 10 is a cross sectional view thereof, taken along the line 10-10 in FIG. 3.

The broken lines shown represent unclaimed subject matter and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

8,052,681	B2 *	11/2011	Sugita	A61B 18/1492	606/167
9,277,959	B2 *	3/2016	Okada	A61B 18/1492	
9,662,167	B2 *	5/2017	Motai	A61B 17/42	
9,717,516	B2 *	8/2017	Shoji	A61B 17/29	
2006/0157071	A1 *	7/2006	Sheffield	A24F 13/22	131/257
2008/0091196	A1 *	4/2008	Deal	A61B 18/1477	606/45
2008/0306334	A1 *	12/2008	Okada	A61B 18/1492	600/104
2011/0152887	A1 *	6/2011	Surti	A61B 17/08	606/142
2013/0289617	A1 *	10/2013	Suzuki	A61B 17/2909	606/205
2015/0282826	A1 *	10/2015	Shoji	A61B 10/06	606/209
2015/0305741	A1 *	10/2015	Satake	A61B 17/10	606/142
2016/0008063	A1 *	1/2016	Wake	A61B 17/3203	606/49
2016/0338771	A1 *	11/2016	Kobayashi	A61B 18/1492	
2017/0020518	A1 *	1/2017	Voss	A61B 17/0057	
2017/0020519	A1 *	1/2017	Voss	A61B 17/0057	
2017/0020629	A1 *	1/2017	Mikkaichi	A61B 1/00	
2017/0112569	A1 *	4/2017	Motosugi	A61B 18/1492	
2017/0303954	A1 *	10/2017	Ishii	A61B 17/320016	

* cited by examiner

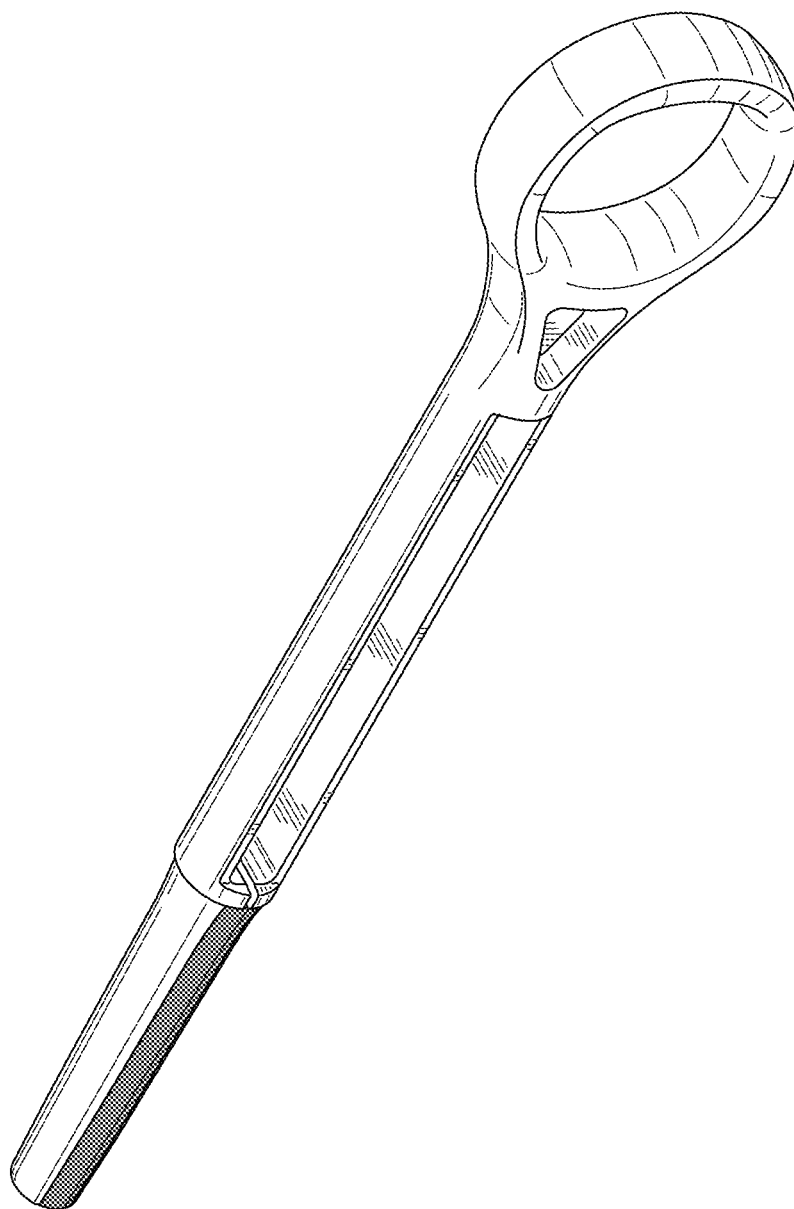


Fig. 1

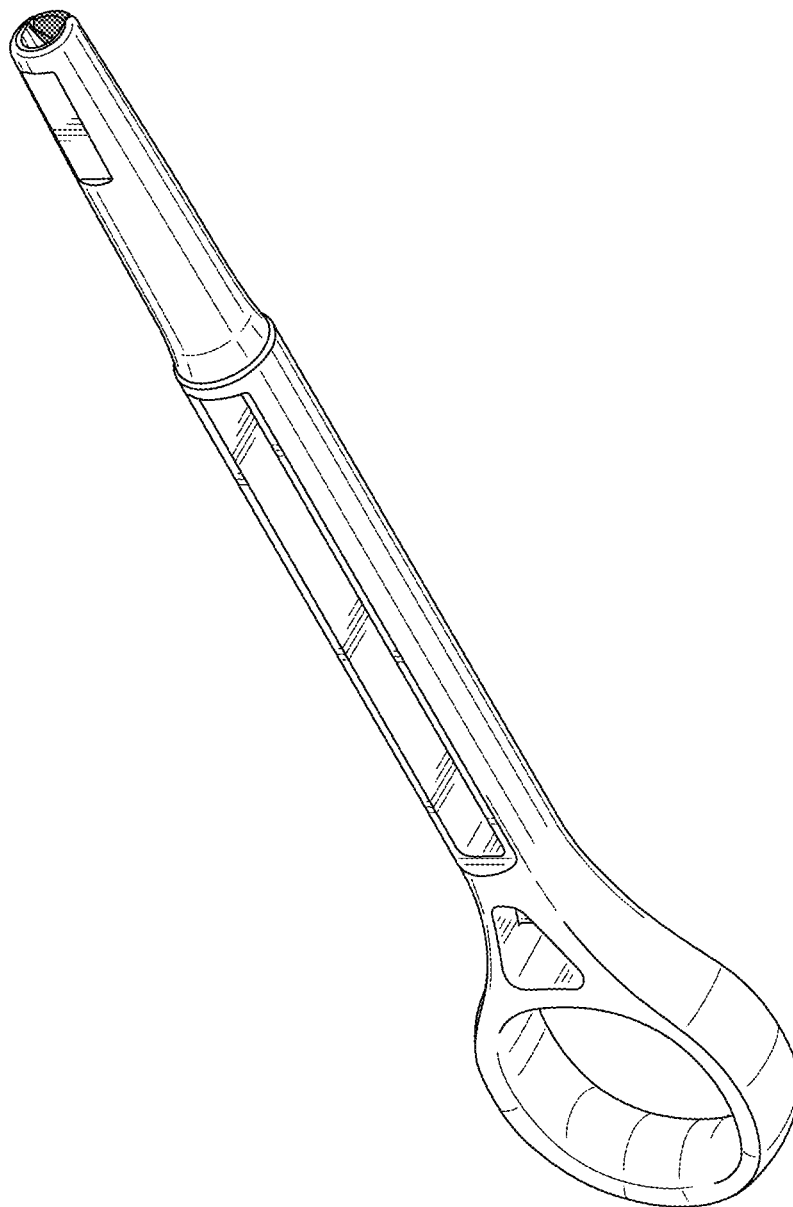


Fig. 2

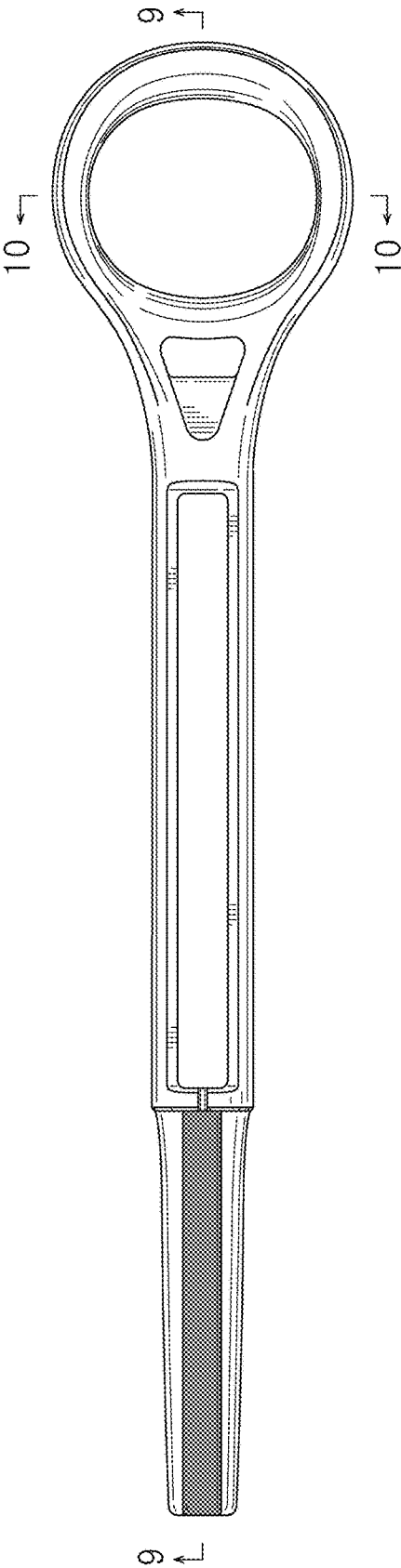


Fig. 3

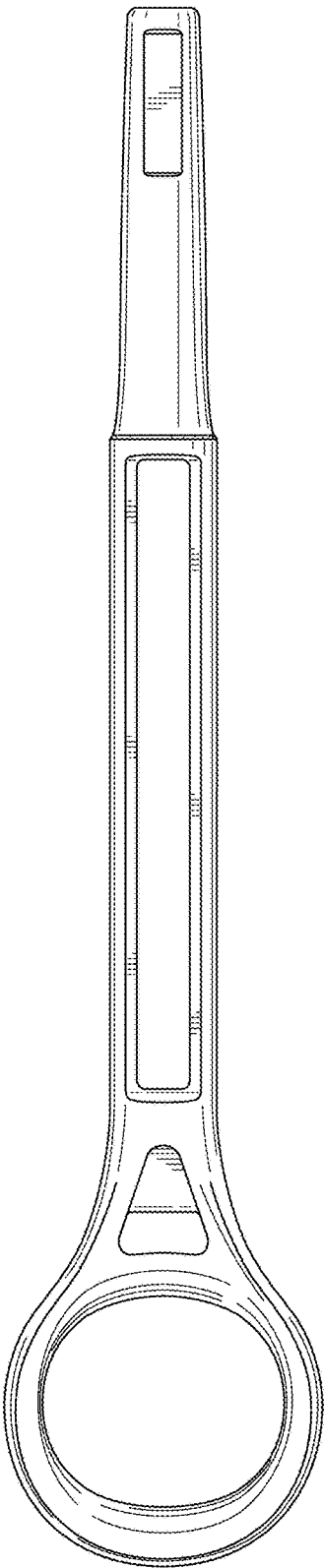


Fig. 4

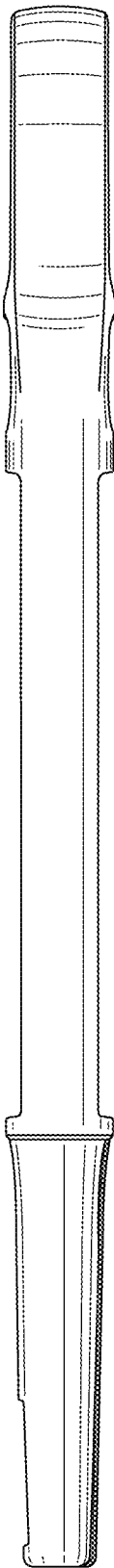


Fig. 5

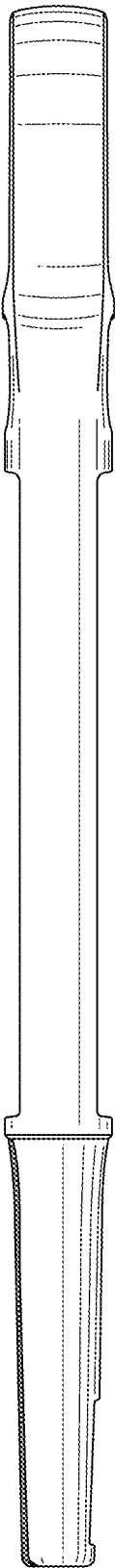


Fig. 6

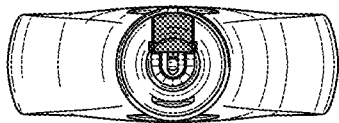


Fig. 7



Fig. 8

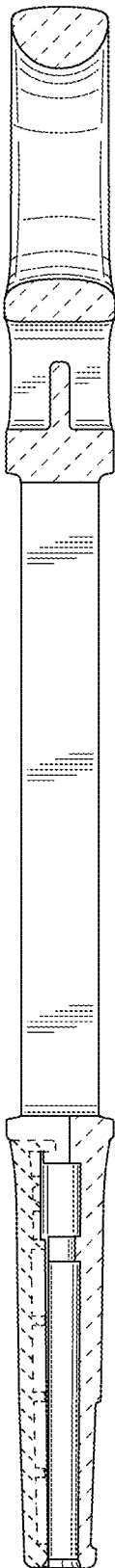


Fig. 9



Fig. 10