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Chang et al.

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(54) **HANDLE FOR LAPAROSCOPIC DEVICE WITH DISTAL ROTATION WHEEL**

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

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(52) **U.S. Cl.**
USPC **D24/146**

(58) **Field of Classification Search**
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D8/98, 99; D19/110, 115; D24/130, 133,
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30/339; 606/4, 5, 6, 41, 44, 45, 46, 49,
606/166

CPC A61F 9/00763; A61F 9/00754; A61B
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D313,736 S *	1/1991	Boliver et al.	D8/14.1
5,282,800 A	2/1994	Foshee et al.		
D348,930 S	7/1994	Olson		
5,330,471 A	7/1994	Eggers		
D354,564 S	1/1995	Medema		
5,456,684 A	10/1995	Schmidt et al.		
5,569,243 A	10/1996	Kortenbach et al.		
5,637,110 A	6/1997	Pennybacker et al.		
5,674,220 A	10/1997	Fox et al.		
5,688,270 A	11/1997	Yates et al.		
D416,089 S	11/1999	Barton et al.		
6,096,037 A	8/2000	Mulier et al.		

6,228,083 B1	5/2001	Lands et al.
D454,951 S	3/2002	Bon
D457,958 S	5/2002	Dycus et al.
6,419,675 B1	7/2002	Gallo, Sr.
6,458,130 B1	10/2002	Frazier et al.
6,464,701 B1	10/2002	Hooven et al.
D466,209 S	11/2002	Bon
6,585,735 B1	7/2003	Lands et al.
6,682,528 B2	1/2004	Frazier et al.
D496,997 S	10/2004	Dycus et al.
D499,181 S	11/2004	Dycus et al.
D502,994 S	3/2005	Blake, III
D509,297 S	9/2005	Wells
6,960,210 B2	11/2005	Lands et al.
D531,311 S	10/2006	Guerra et al.

(Continued)

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(57) **CLAIM**

The ornamental design for a handle for laparoscopic device with distal rotation wheel, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a handle for laparoscopic device with distal rotation wheel in accordance with the present design;

FIG. 2 is a rear view of the handle for laparoscopic device with distal rotation wheel of FIG. 1;

FIG. 3 is a front view of the handle for laparoscopic device with distal rotation wheel of FIG. 1;

FIG. 4 is a top view of the handle for laparoscopic device with distal rotation wheel of FIG. 1;

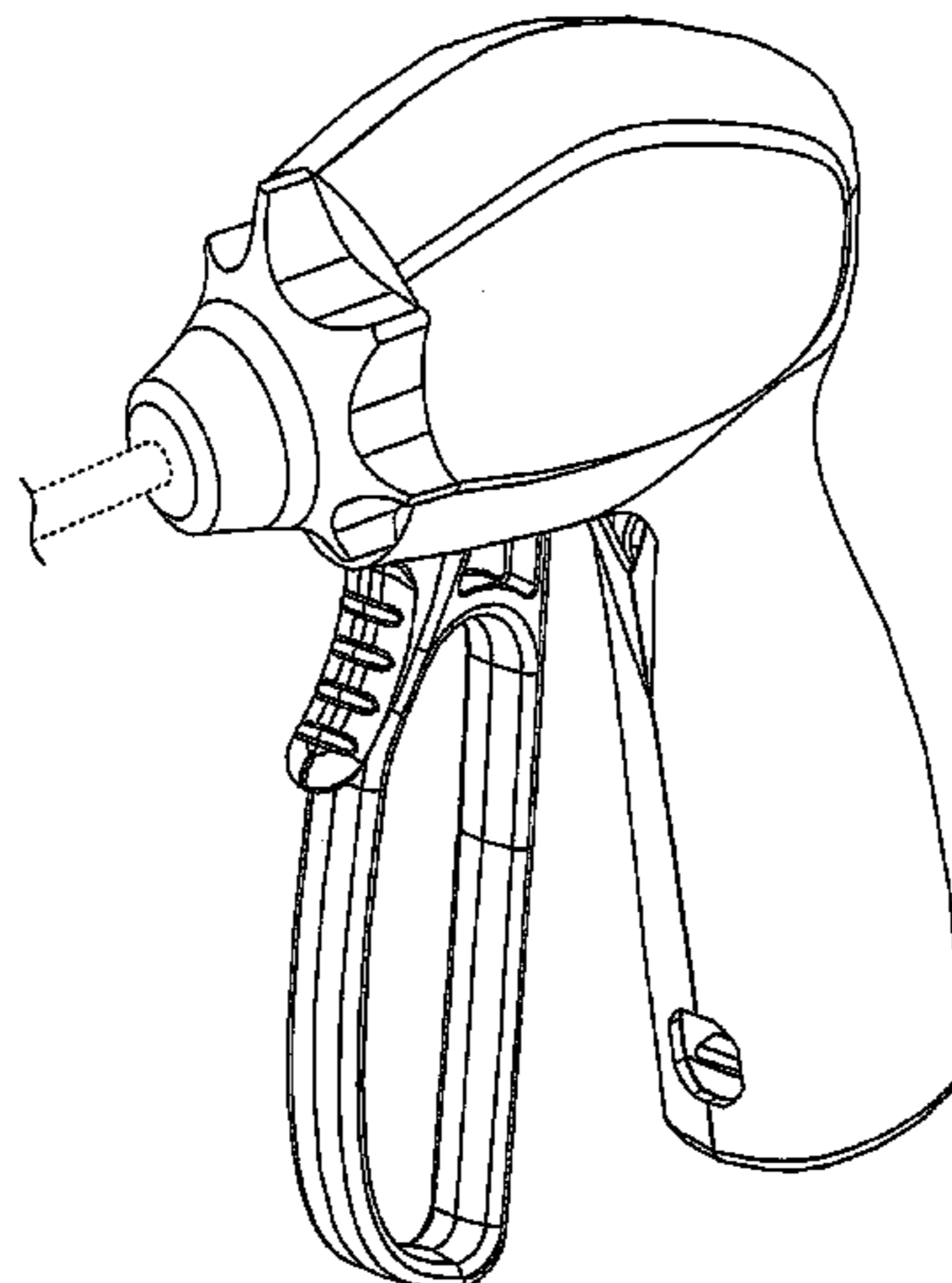
FIG. 5 is a bottom view of the handle for laparoscopic device with distal rotation wheel of FIG. 1;

FIG. 6 is a left side view of the handle for laparoscopic device with distal rotation wheel of FIG. 1; and,

FIG. 7 is a right side view of the handle for laparoscopic device with distal rotation wheel of FIG. 1.

In the drawings, the broken lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,156,846 B2	1/2007	Dycus et al.	8,647,341 B2	2/2014	Dycus et al.
D541,418 S	4/2007	Schechter et al.	D704,333 S *	5/2014	Casey et al. D24/133
7,207,990 B2	4/2007	Lands et al.	8,888,775 B2 *	11/2014	Nau et al. 606/49
7,232,440 B2	6/2007	Dumbauld et al.	2005/0113826 A1 *	5/2005	Johnson et al. 606/45
D547,154 S	7/2007	Lee et al.	2009/0105750 A1	4/2009	Price et al.
7,384,420 B2	6/2008	Dycus et al.	2010/0094289 A1	4/2010	Taylor et al.
D575,401 S	8/2008	Hixson et al.	2011/0015632 A1 *	1/2011	Artale 606/51
7,553,311 B2	6/2009	Anders et al.	2011/0036183 A1 *	2/2011	Artale et al. 73/862.621
7,597,693 B2	10/2009	Garrison	2011/0077648 A1 *	3/2011	Lee et al. 606/51
D620,593 S *	7/2010	Tran et al. D24/144	2012/0210240 A1	8/2012	Neystadt et al.
D621,503 S	8/2010	Otten et al.	2012/0271346 A1 *	10/2012	Townsend et al. 606/205
D624,646 S *	9/2010	Peschke et al. D24/133	2013/0085491 A1 *	4/2013	Twomey et al. 606/41
D627,066 S *	11/2010	Romero D24/133	2013/0190753 A1 *	7/2013	Garrison et al. 606/41
D628,290 S	11/2010	Romero	2013/0190759 A1 *	7/2013	Waler et al. 606/52
7,857,812 B2	12/2010	Dycus et al.	2013/0232753 A1 *	9/2013	Ackley et al. 29/407.05
D637,288 S *	5/2011	Houghton D24/133	2013/0304059 A1 *	11/2013	Allen et al. 606/41
8,287,536 B2	10/2012	Mueller et al.	2014/0005666 A1 *	1/2014	Moua et al. 606/45
			2014/0025071 A1 *	1/2014	Sims et al. 606/46
			2014/0025073 A1 *	1/2014	Twomey et al. 606/51
			2014/0107685 A1 *	4/2014	O'Neill et al. 606/170

* cited by examiner

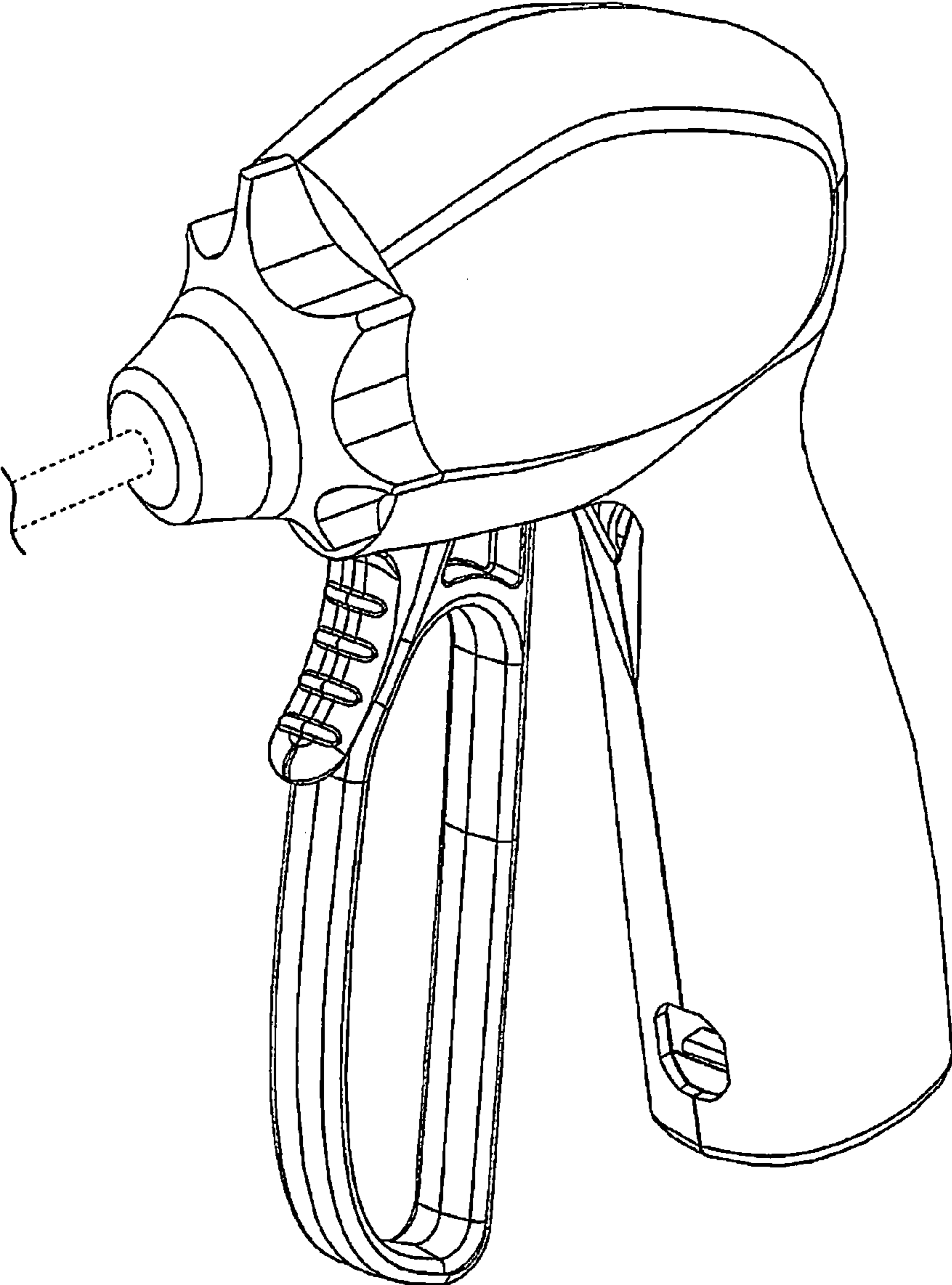


Fig. 1

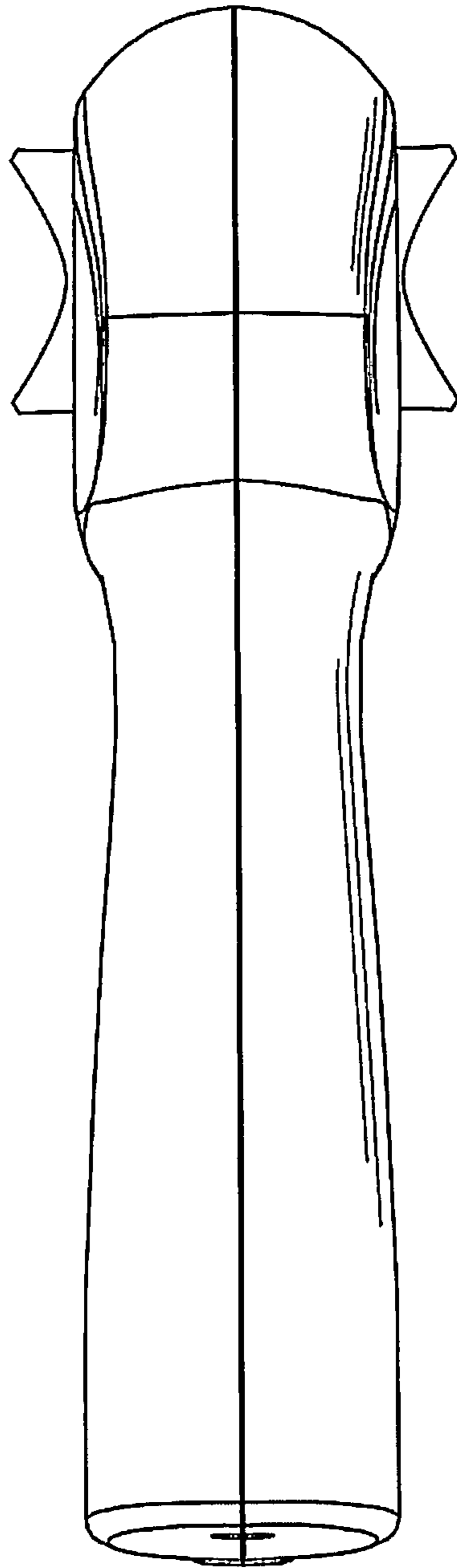


Fig. 2

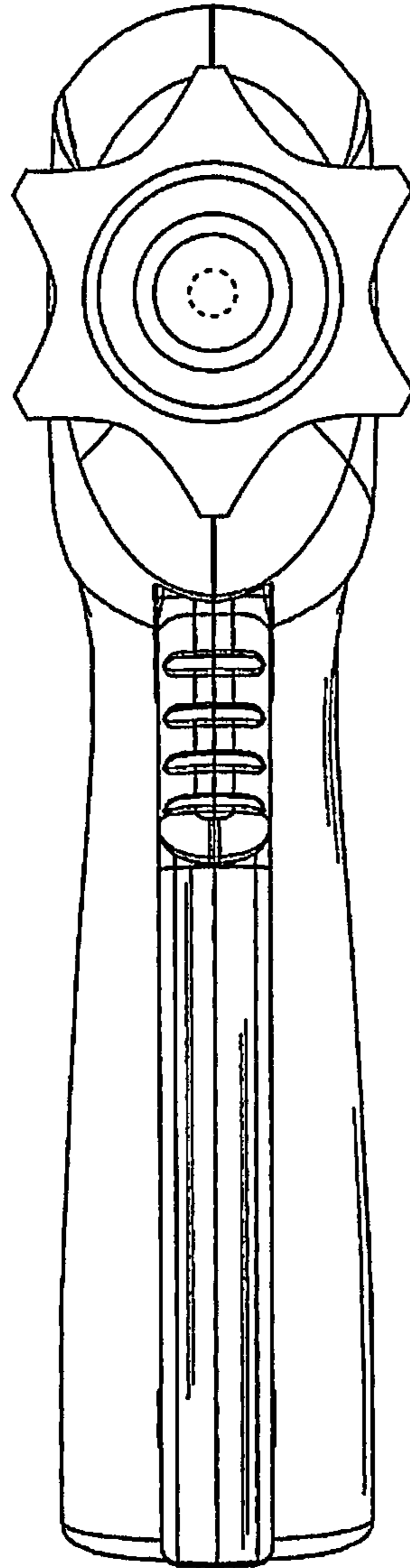


Fig. 3

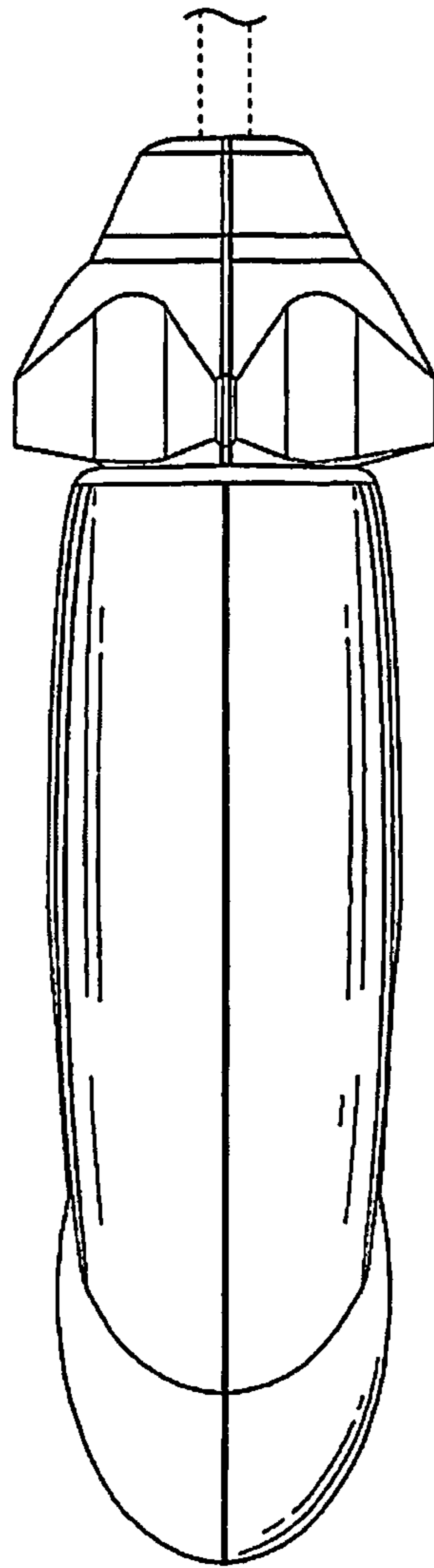


Fig. 4

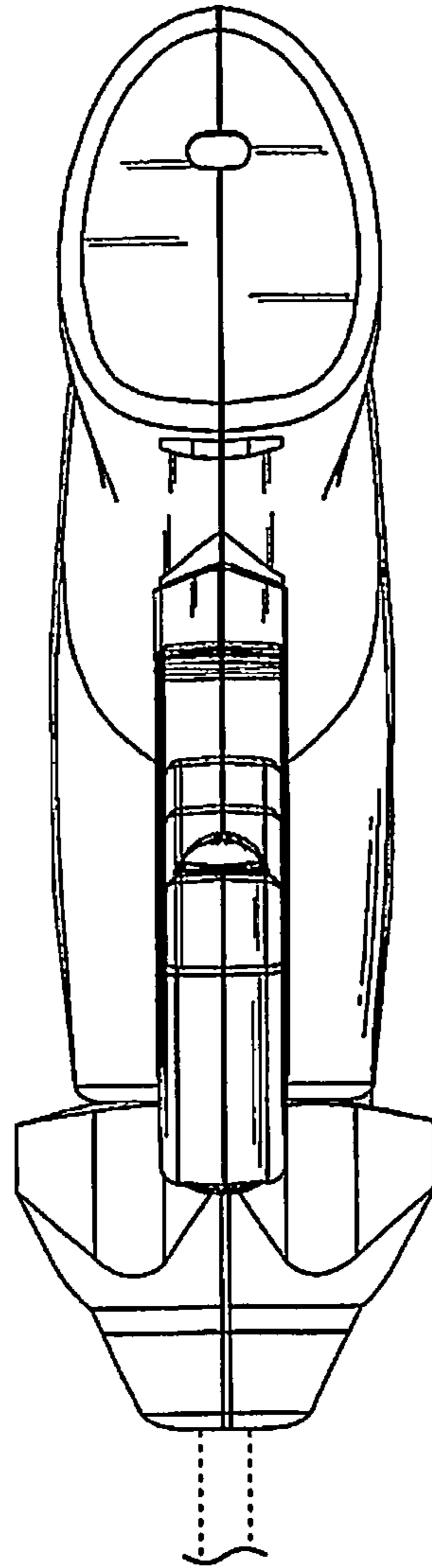


Fig. 5

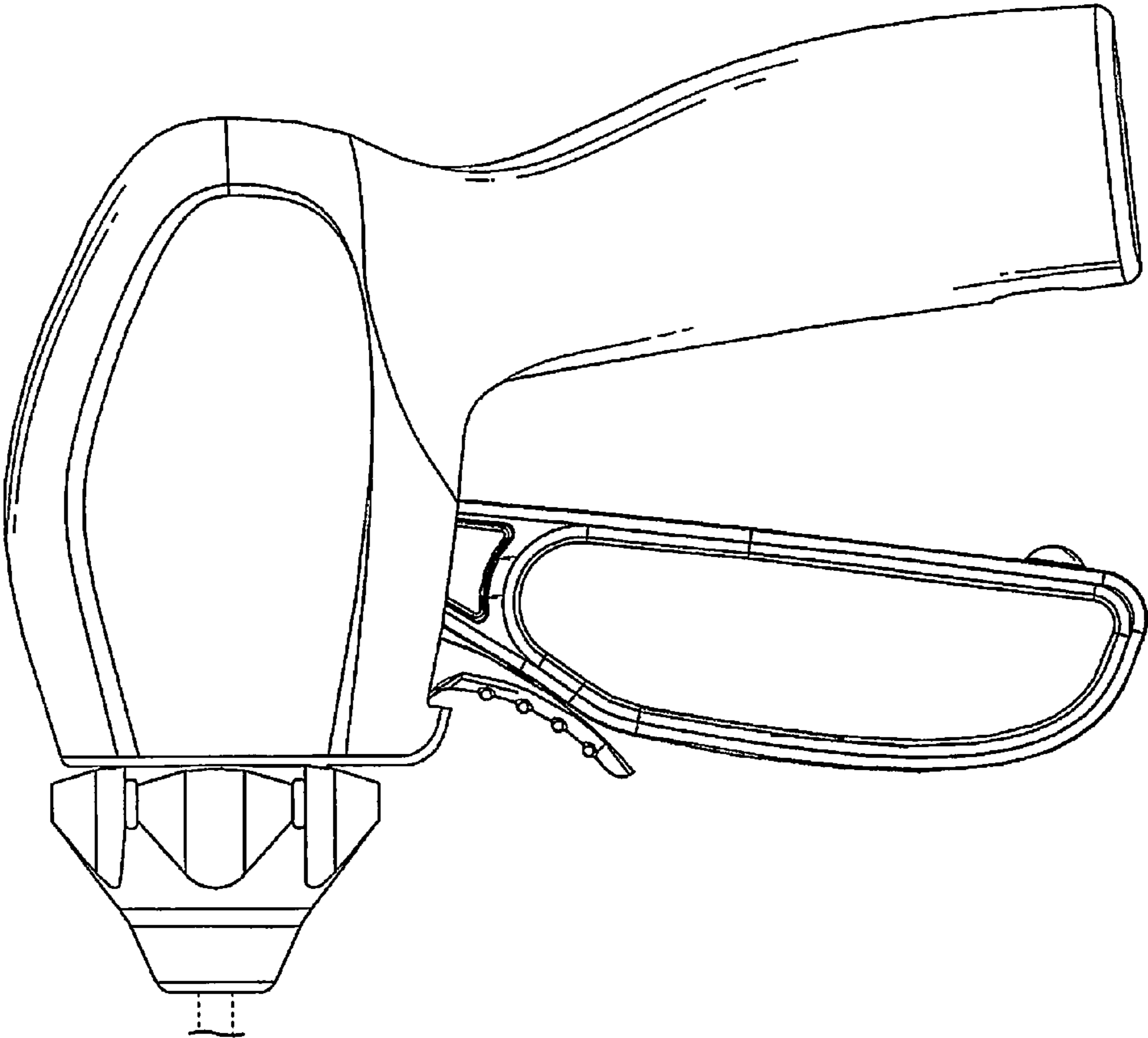


Fig. 6

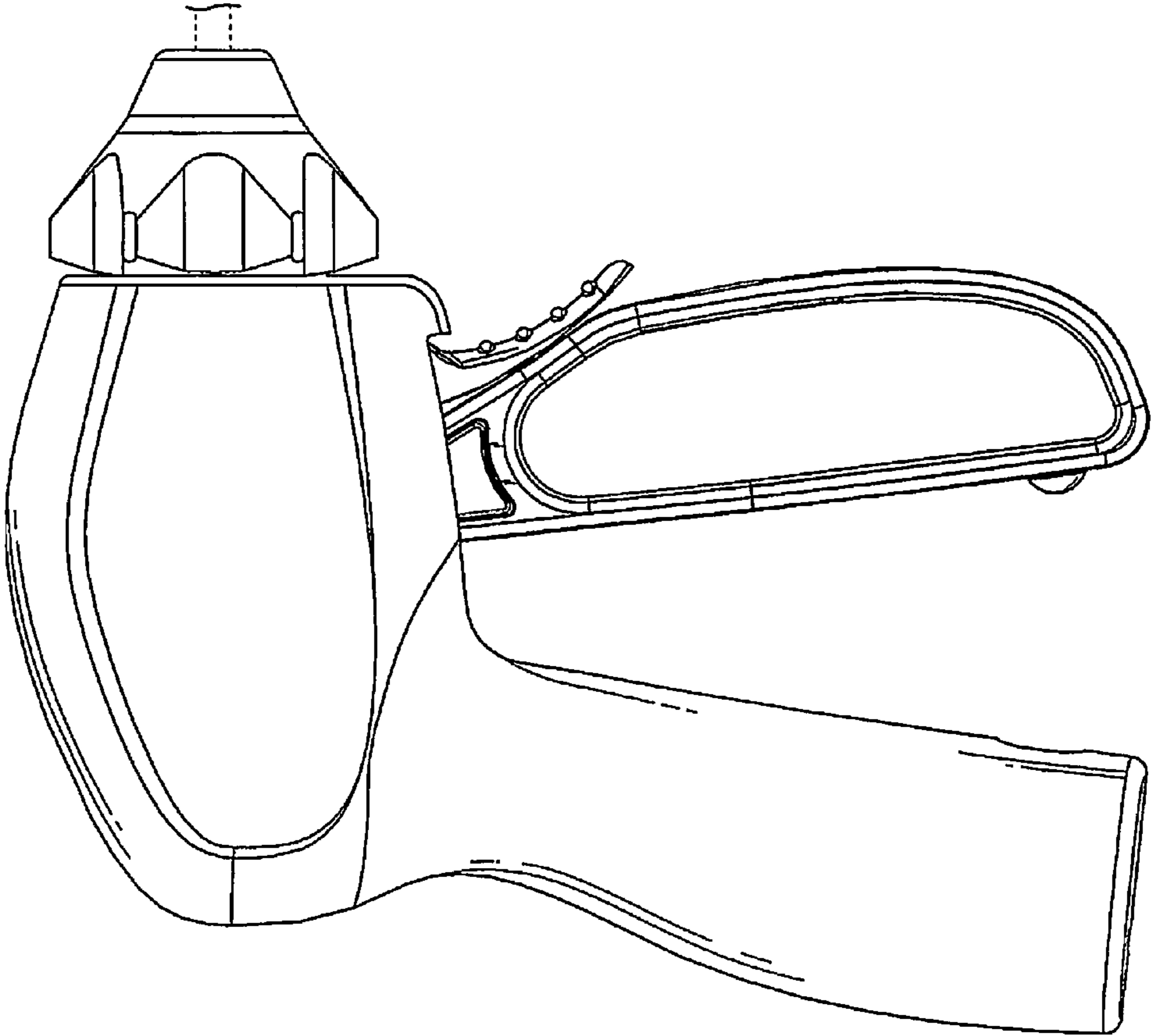


Fig. 7