



US00D512192S

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

(10) **Patent No.:** **US D512,192 S**

(45) **Date of Patent:** **** Nov. 29, 2005**

(54) **HAND HELD VACUUM CLEANER**

(75) **Inventor:** **Cheng Han Shim, Kowloon (HK)**

(73) **Assignee:** **AK Industrial Co., Ltd., Hong Kong (HK)**

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

(21) **Appl. No.:** **29/213,155**

(22) **Filed:** **Sep. 14, 2004**

(51) **LOC (8) Cl. 15-05**

(52) **U.S. Cl. D32/18**

(58) **Field of Search** D32/17-18, 21,
D32/31, 1; 15/344, 329, 1.7, 320-321,
323, DIG. 1

D437,983 S	2/2001	Stratford	
D440,719 S	4/2001	Stratford	
D440,720 S	4/2001	Stratford	
D441,151 S	4/2001	Stratford	
D441,152 S	4/2001	Stratford	
D441,926 S	5/2001	Stratford	
6,231,647 B1	5/2001	Cheng	
D448,894 S	10/2001	Yuen	
D448,895 S	* 10/2001	Andreas	D32/18
D456,960 S	5/2002	Vandenbelt et al.	
D459,560 S	6/2002	Lau	
6,434,785 B1	8/2002	Vandenbelt et al.	
6,481,043 B1	11/2002	Anderson et al.	
D468,068 S	12/2002	Mok	
D471,331 S	3/2003	Pan	
D481,840 S	* 11/2003	Lammers et al.	D32/18
D481,842 S	11/2003	Tai	

OTHER PUBLICATIONS

U.S. Appl. No. 29/176,115, filed Feb. 18, 2003, Ma, Rotary Brush Vacuum.

U.S. Appl. No. 29/176,440, Feb. 21, 2003, Cheng, Handheld Brush Vacuum.

U.S. Appl. No. 29/181,964, filed May 16, 2003, Ma, Handheld Rotary Vacuum.

* cited by examiner

Primary Examiner—Ruth McInroy

(74) *Attorney, Agent, or Firm*—Roy, Kiesel, Keegan & DeNicola

(57) **CLAIM**

I claim the ornamental design for a hand held vacuum cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a hand held vacuum cleaner showing my new design;

FIG. 2 is an enlarged front view thereof;

FIG. 3 is an enlarged back view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top view thereof; and,

FIG. 7 is a bottom view thereof.

1 Claim, 4 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

D238,651 S	*	2/1976	Fortune	D8/30
D257,661 S	*	12/1980	Gantz	D32/18
D280,452 S		9/1985	Arita	
4,542,557 A	*	9/1985	Levine	15/344
4,577,365 A	*	3/1986	Yuen	15/339
D287,657 S	*	1/1987	Yuen	D32/18
D294,412 S		2/1988	Sadashima et al.	
D302,876 S		8/1989	Ikeda et al.	
D303,025 S	*	8/1989	Yamamoto et al.	D32/18
D304,104 S		10/1989	Busalt et al.	
D306,505 S		3/1990	Bradd	
D307,657 S		5/1990	Li	
D312,153 S	*	11/1990	Kwong	D32/18
D320,099 S		9/1991	Case et al.	
D326,169 S		5/1992	Stützer et al.	
D355,058 S	*	1/1995	Phelan	D32/18
D364,013 S	*	11/1995	Klingspor et al.	D32/18
D371,650 S	*	7/1996	Dingelstad	D32/18
D376,228 S		12/1996	Bass et al.	
D379,691 S		6/1997	Moine et al.	
D387,516 S		12/1997	Murray et al.	
D401,021 S		11/1998	Stephens et al.	
D414,905 S	*	10/1999	Ho	D32/18
D418,262 S		12/1999	Yuen	
D421,671 S		3/2000	Thomas	
D432,743 S		10/2000	Santiago	

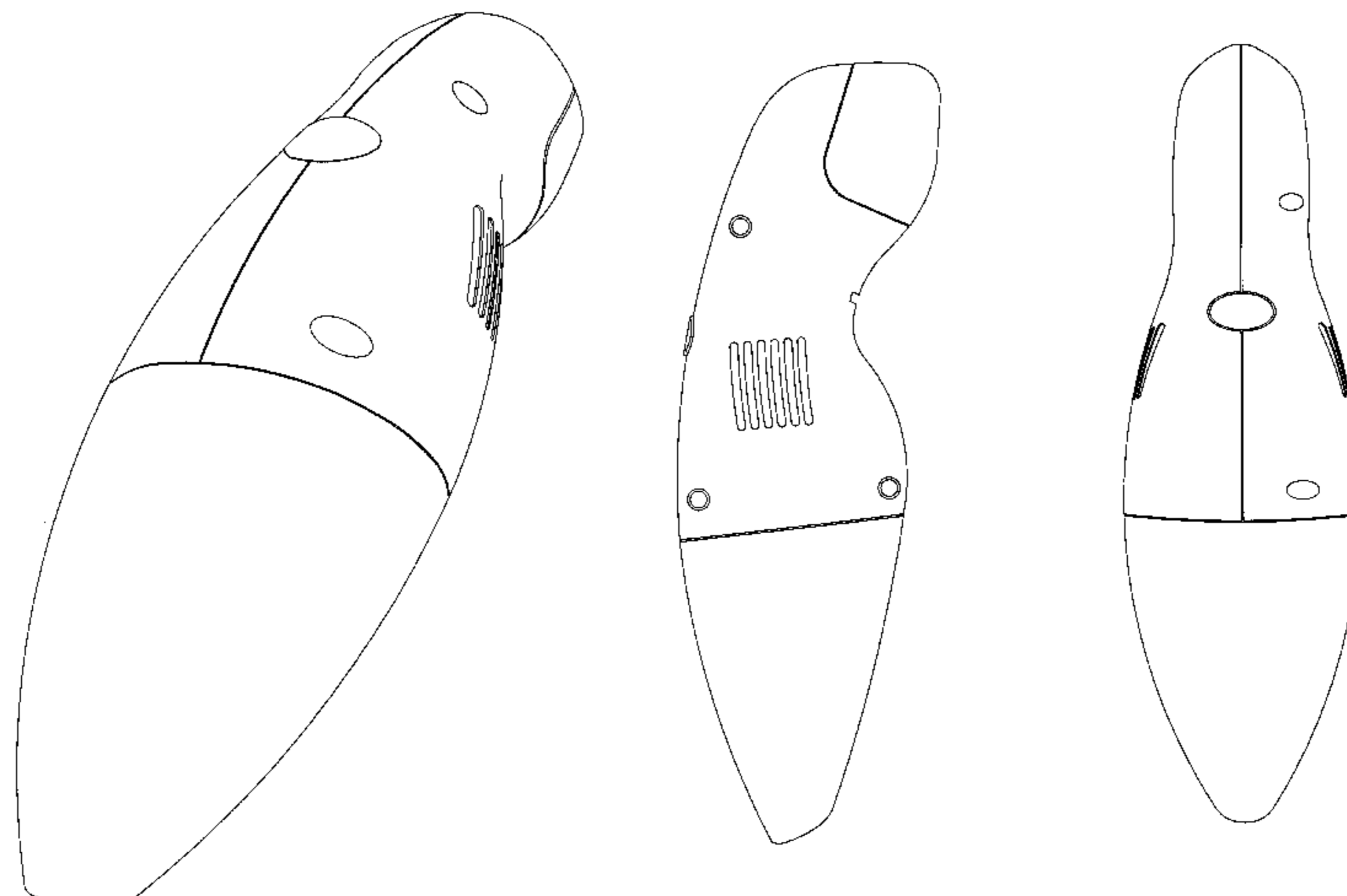


Fig 1

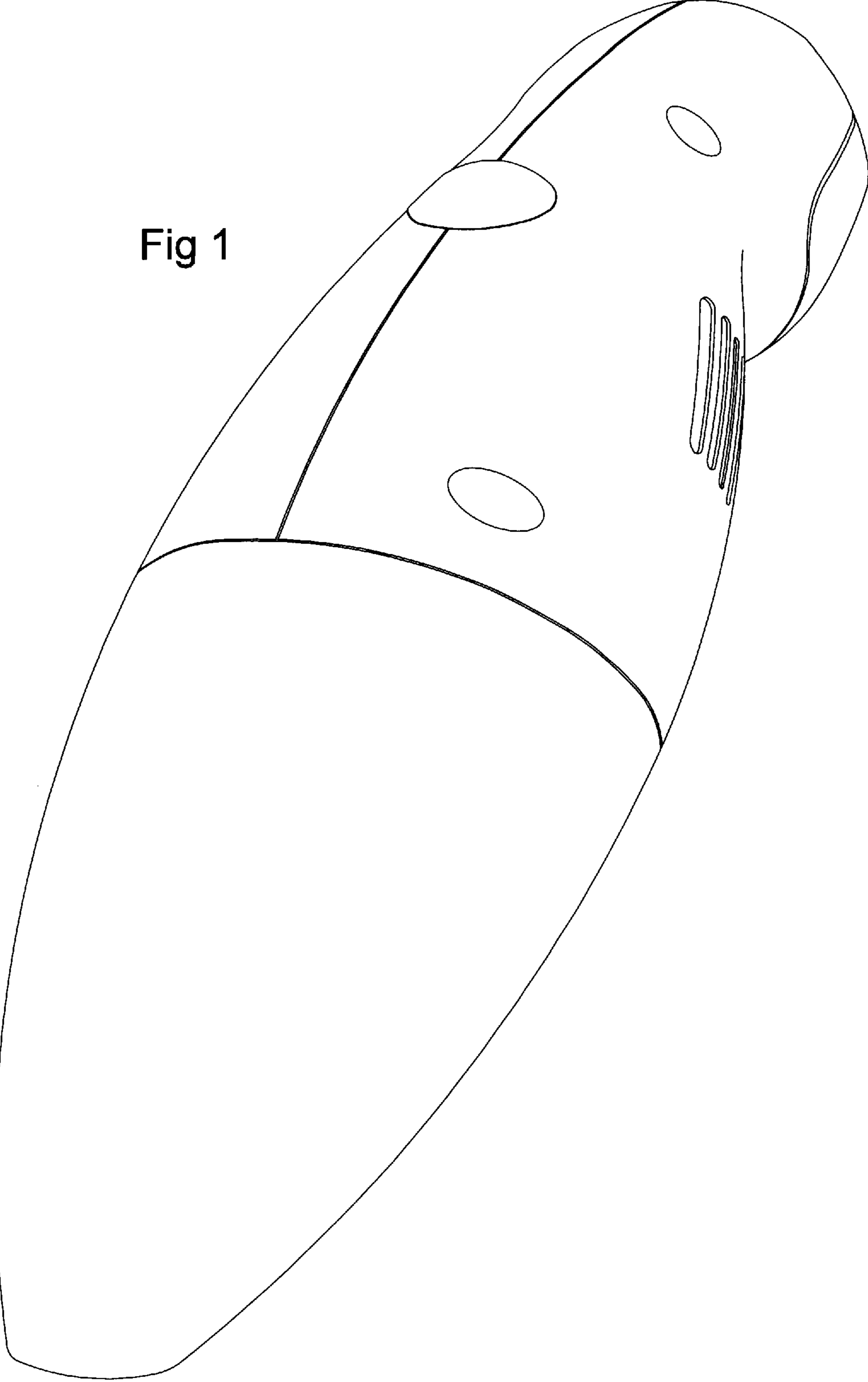


Fig 2

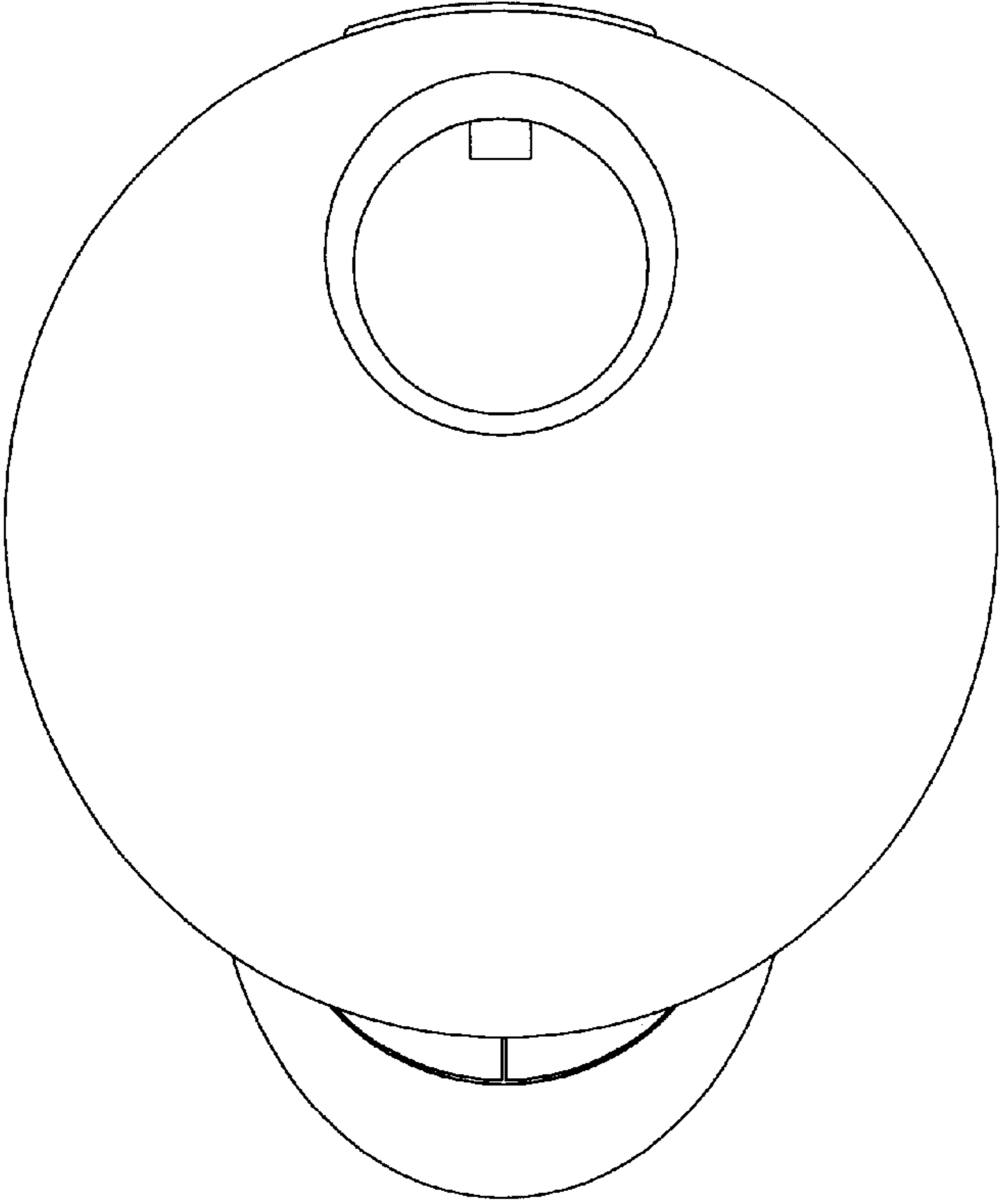


Fig 3

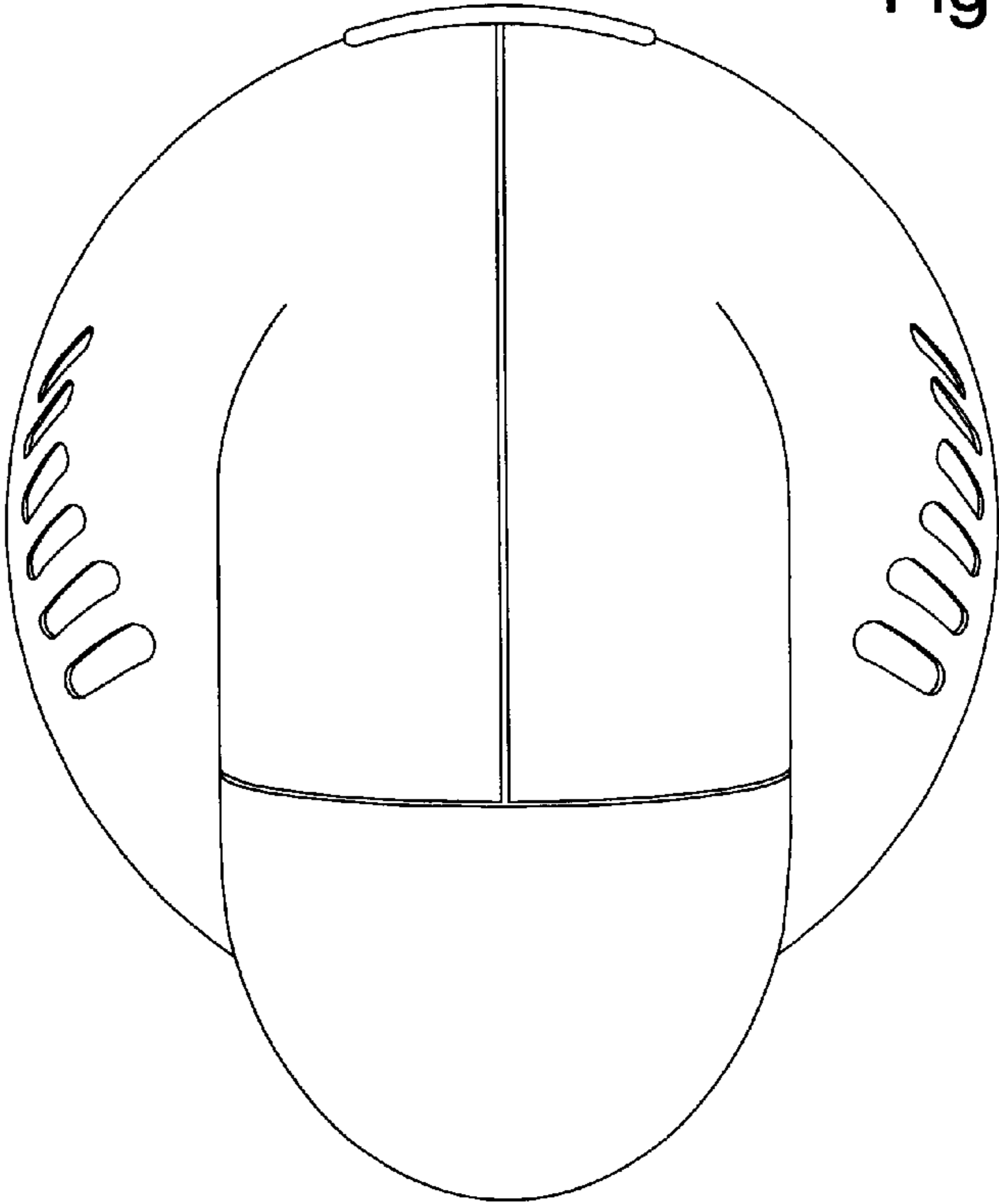


Fig 4

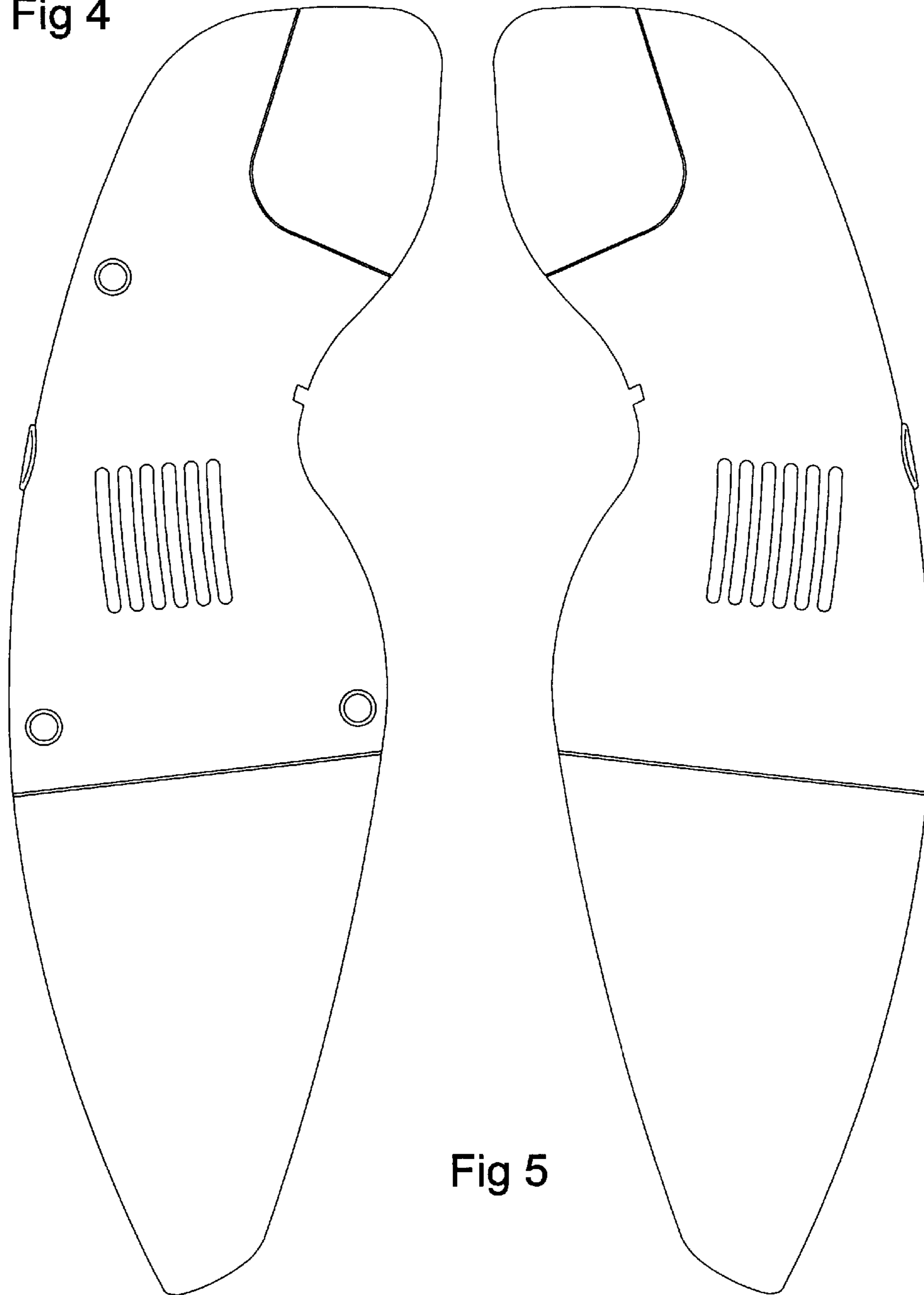


Fig 5

Fig 6

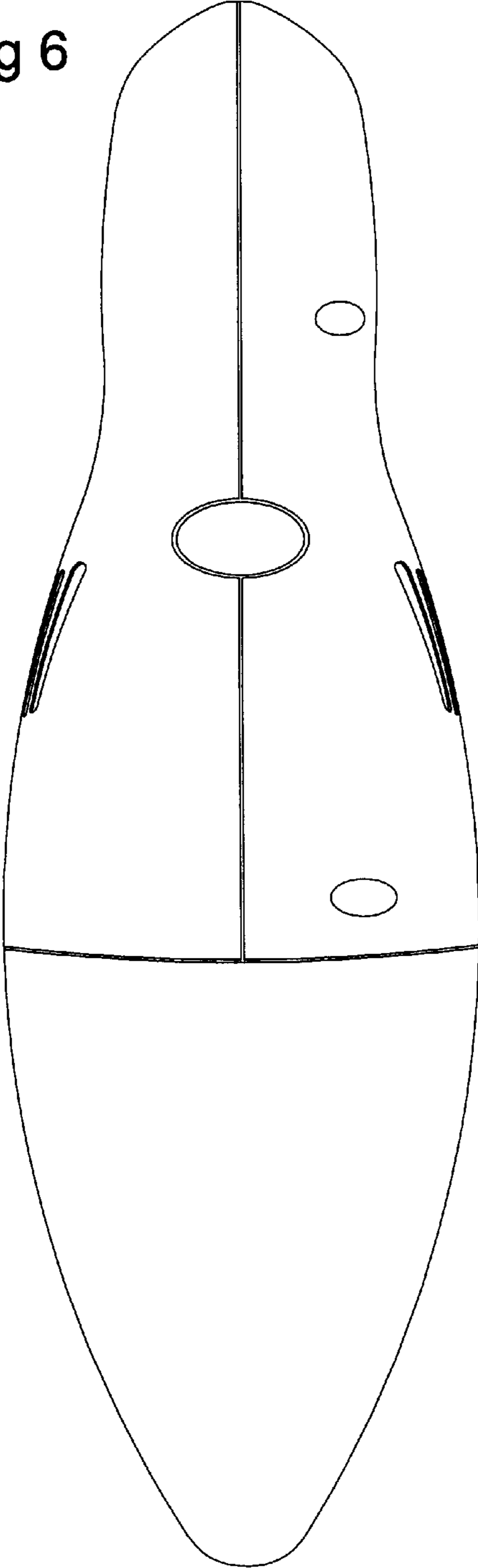


Fig 7

