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

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(54) **FLIP-OPEN METERED-DOSE INHALER**

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

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(51) **LOC (12) Cl.** **29-02**

(52) **U.S. Cl.**
USPC **D24/110**

(58) **Field of Classification Search**
USPC D24/108, 110, 110.5, 164, 127
CPC A61M 15/009; A61M 2202/064; A61M 15/0065; A61M 15/00; A61M 15/008; A61M 15/0068; A61M 15/0091; A61M 2205/3592; A61M 2205/3553; A61M 15/0021; A61M 15/0025; A61M 15/0026
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D433,126 S * 10/2000 McCurry D24/110
D439,656 S * 3/2001 Andersson D24/110
(Continued)

FOREIGN PATENT DOCUMENTS

WO WO2016187156 A1 11/2016
WO WO2017182975 A1 10/2017

OTHER PUBLICATIONS

Mhealthspot, <http://mhealthspot.com/2016/02/adherium-smart-inhalers-multicountry-study>, Mar. 18, 2017.

(Continued)

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(57) **CLAIM**

The ornamental design for a flip-open metered-dose inhaler, as shown and described herein.

DESCRIPTION

FIG. 1 is a right side, front, and top perspective view of a flip-open metered-dose inhaler with its flip cover closed showing the new design.

FIG. 2 is a right side, front, and top perspective view thereof with its flip cover open.

FIG. 3 is a top plan view thereof with its flip cover closed.

FIG. 4 is a top plan view thereof with its flip cover open.

FIG. 5 is a bottom plan view thereof with its flip cover closed.

FIG. 6 is a bottom plan view thereof with its flip cover open.

FIG. 7 is a front elevational view thereof with its flip cover closed.

FIG. 8 is a front elevational view thereof with its flip cover open.

FIG. 9 is a right side elevational view thereof with its flip cover closed.

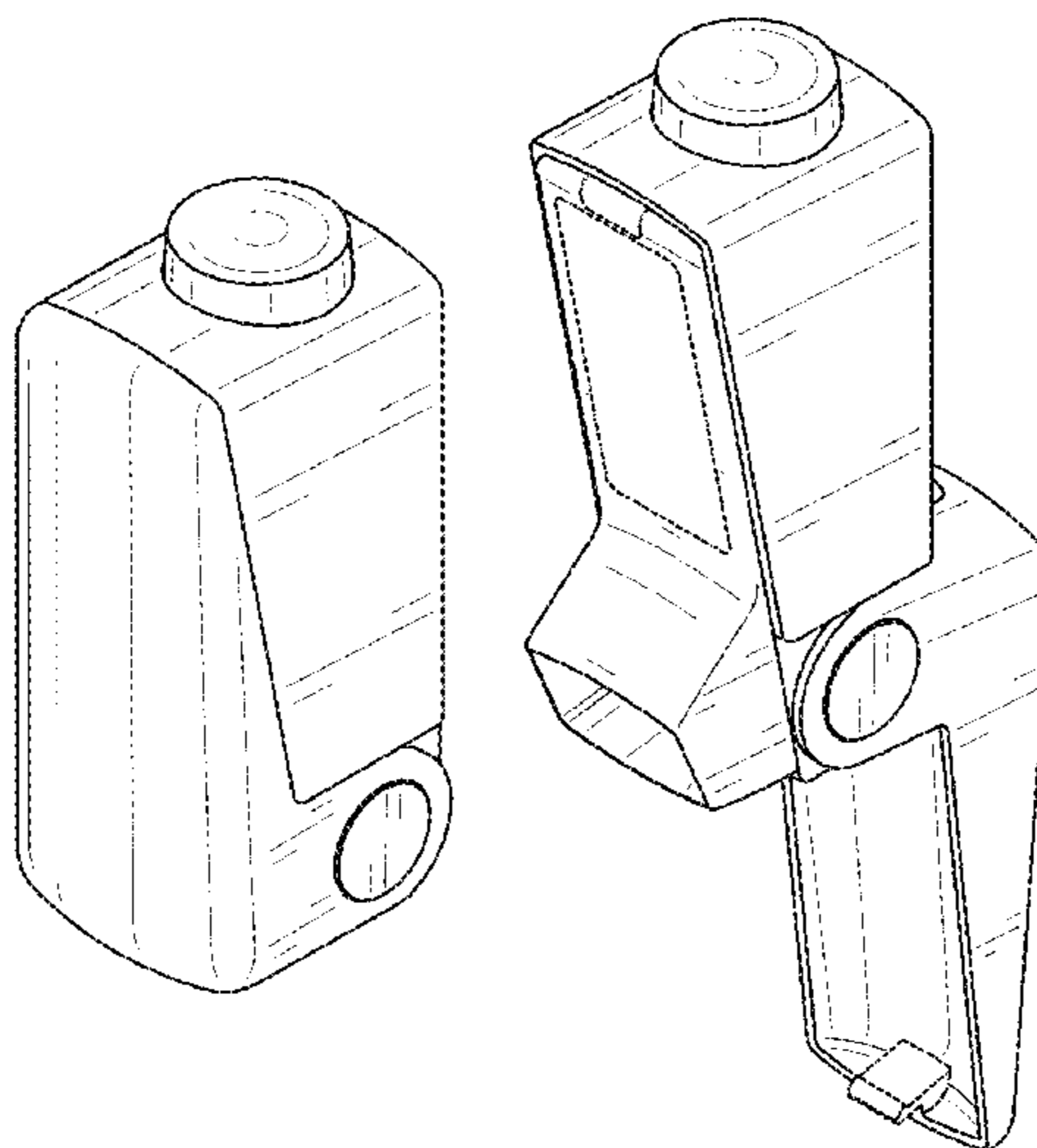
FIG. 10 is a right side elevational view thereof with its flip cover open.

FIG. 11 is a rear elevational view thereof with its flip cover closed; and,

FIG. 12 is a rear elevational view thereof with its flip cover open.

The broken lines in the drawings depict portions of the flip-open metered-dose inhaler that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D455,208	S	*	4/2002	Bacon	.....	D24/110
D473,640	S	*	4/2003	Cuffaro	.....	D24/110
D480,474	S	*	10/2003	Bowman	.....	D24/110
D509,898	S	*	9/2005	Bunce	.....	D24/110
D582,544	S	*	12/2008	Meziere	.....	D24/110
D585,978	S	*	2/2009	Petersen	.....	D24/110
D716,936	S	*	11/2014	Jensen	.....	D24/110
D808,515	S	*	1/2018	Atkin	.....	D24/110
D834,704	S	*	11/2018	Atkin	.....	D24/110
D840,020	S	*	2/2019	Howgill	.....	D24/110
2008/0156321	A1	*	7/2008	Bowman	.....	A61M 15/009 128/200.23
2016/0325058	A1		11/2016	Samson et al.		
2017/0042215	A1		2/2017	Murison		
2017/0312459	A1	*	11/2017	Duignan	.....	A61M 15/009
2017/0319797	A1		11/2017	Germinario et al.		

OTHER PUBLICATIONS

Vaporsmooth, <https://vaporsmooth.com/breeze-smart-inhaler-new-breeze-vaporizer-by-resolve-digital-health>, Jun. 24, 2017.

www.3ders.org, <http://www.3ders.org/articles/20160314-3d-printed-smart-inhaler-could-help-doctors-better-understand-asthma.html>, Mar. 16, 2016.

Medgadget, <https://www.medgadget.com/2014/06/nexus6-smarttouch-inhaler-monitor-helps-patients-adhere-to-medication-regimens.html>, Jun. 6, 2014.

Syqemical, <https://www.syqemical.com>, Dec. 1, 2016.

www.vccny.com, <http://www.vccny.com/blog/2016/12/01/albuterol-toxicity-in-pets-where-is-your-inhaler>, Dec. 1, 2016.

* cited by examiner

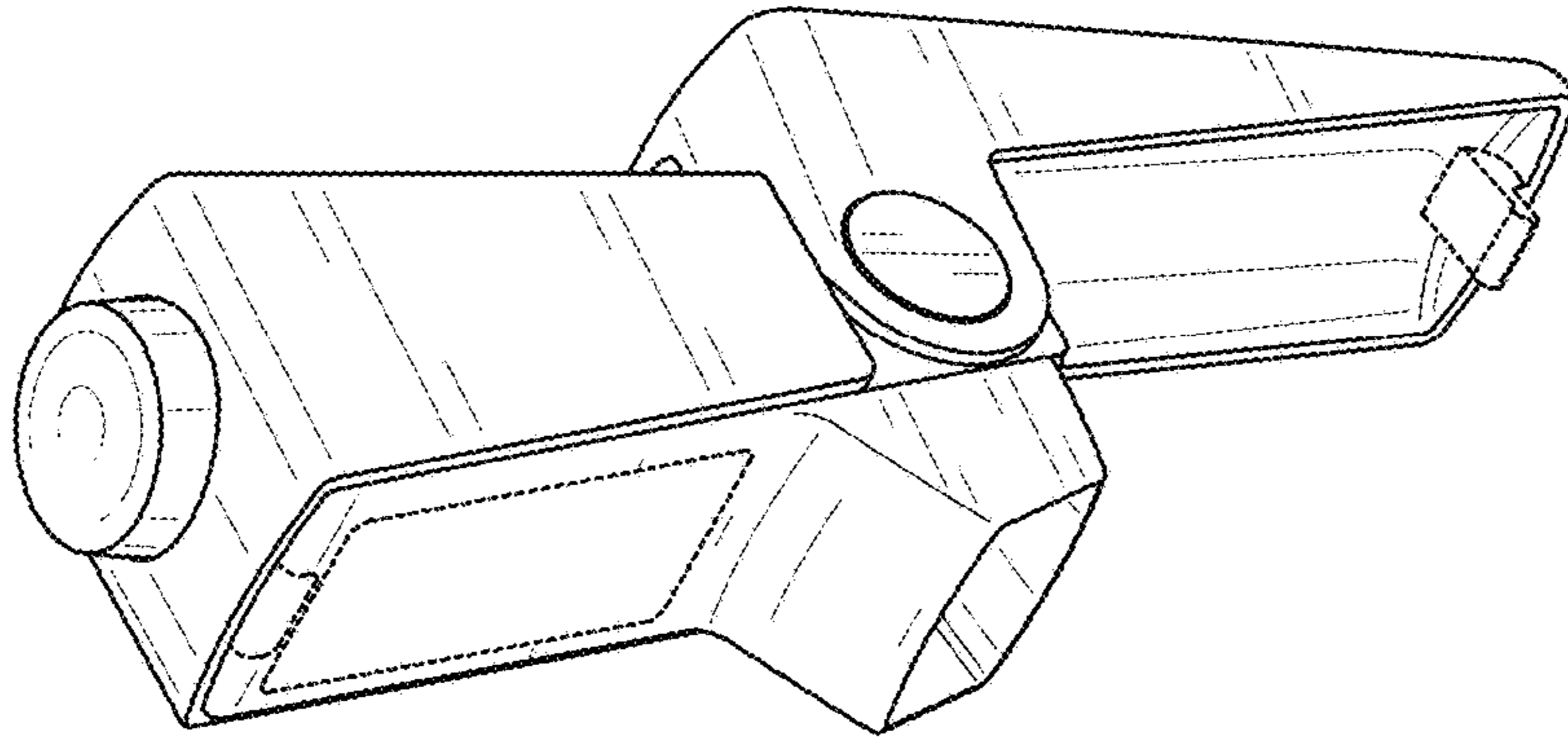


Fig. 2

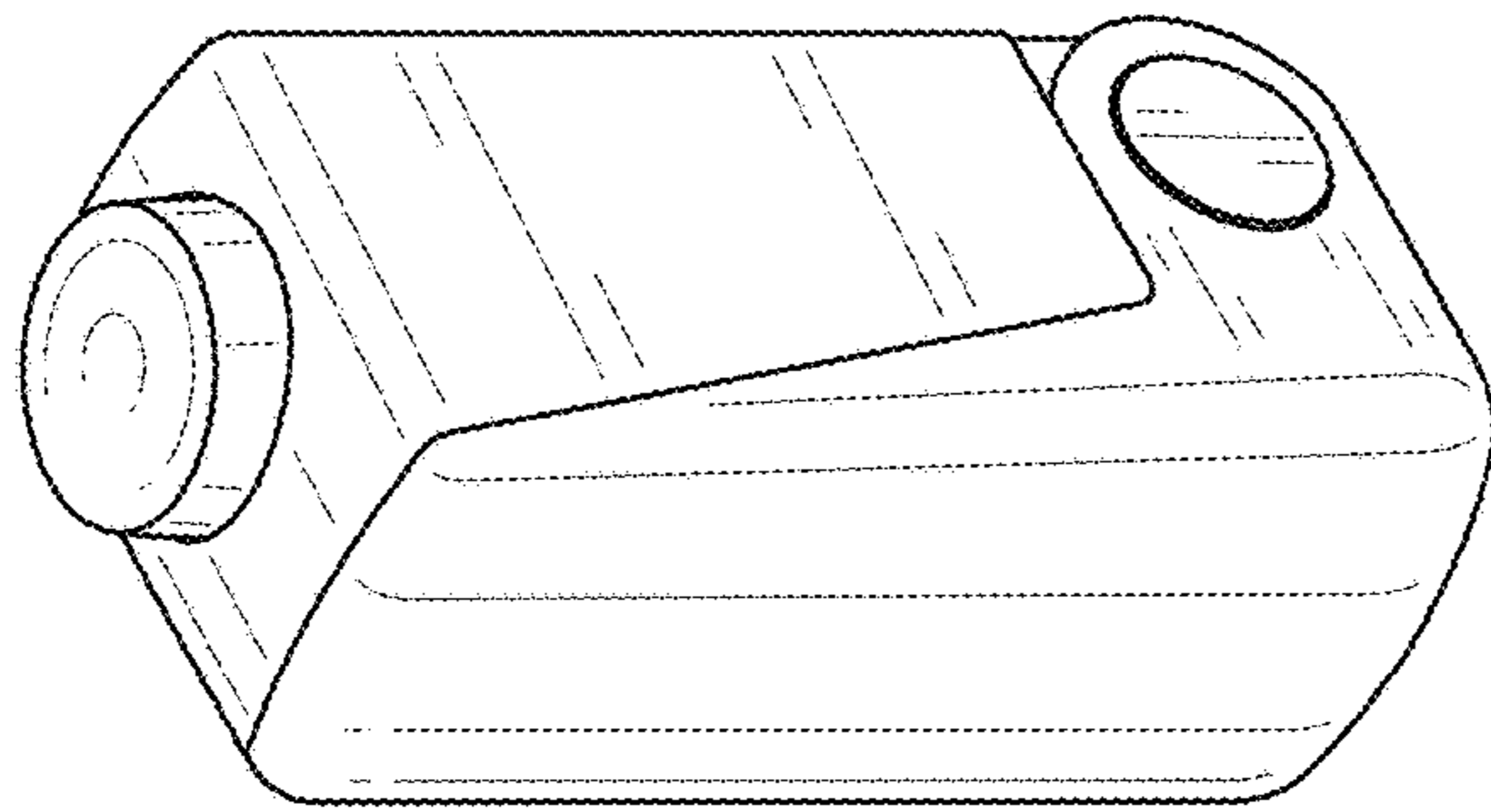


Fig. 1

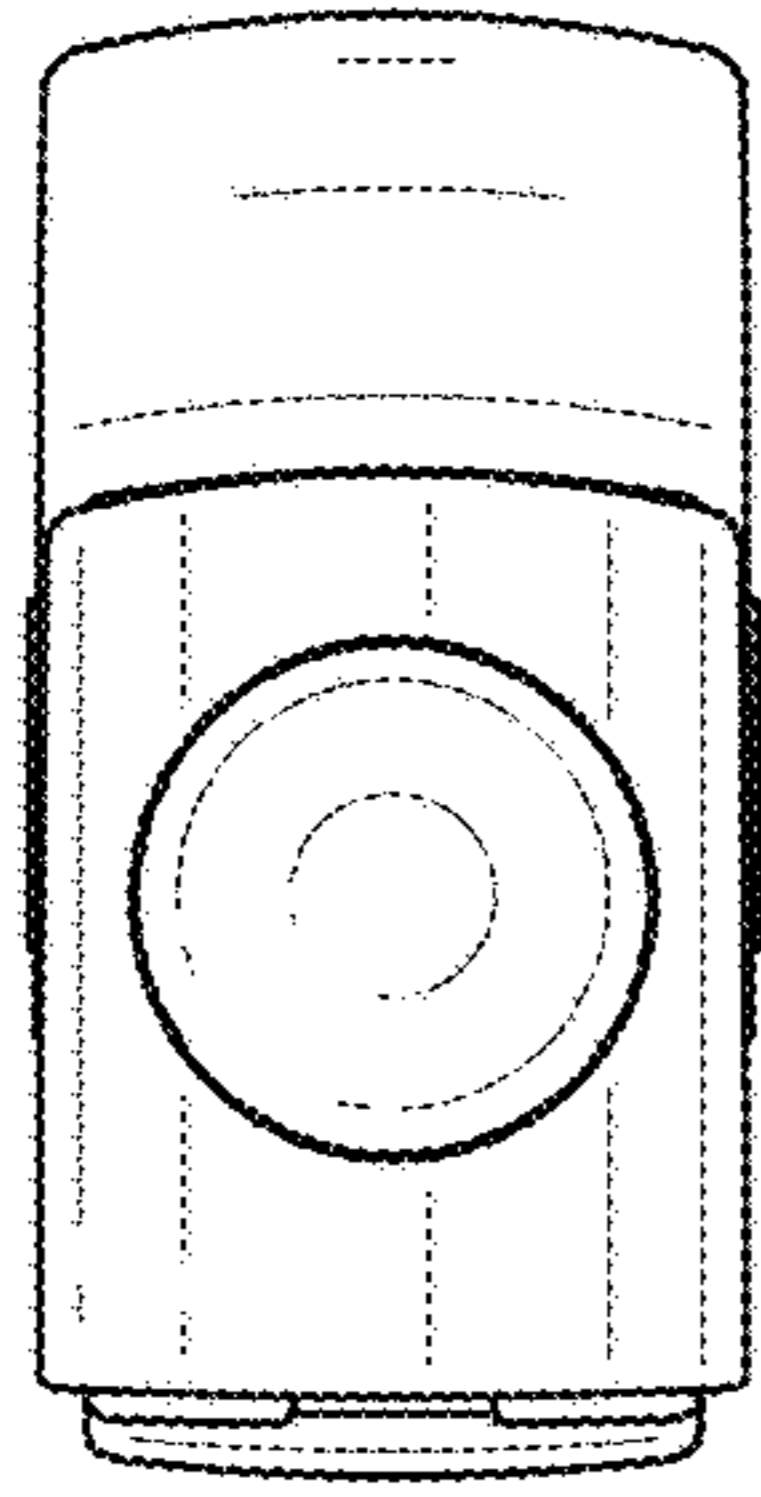


Fig. 3

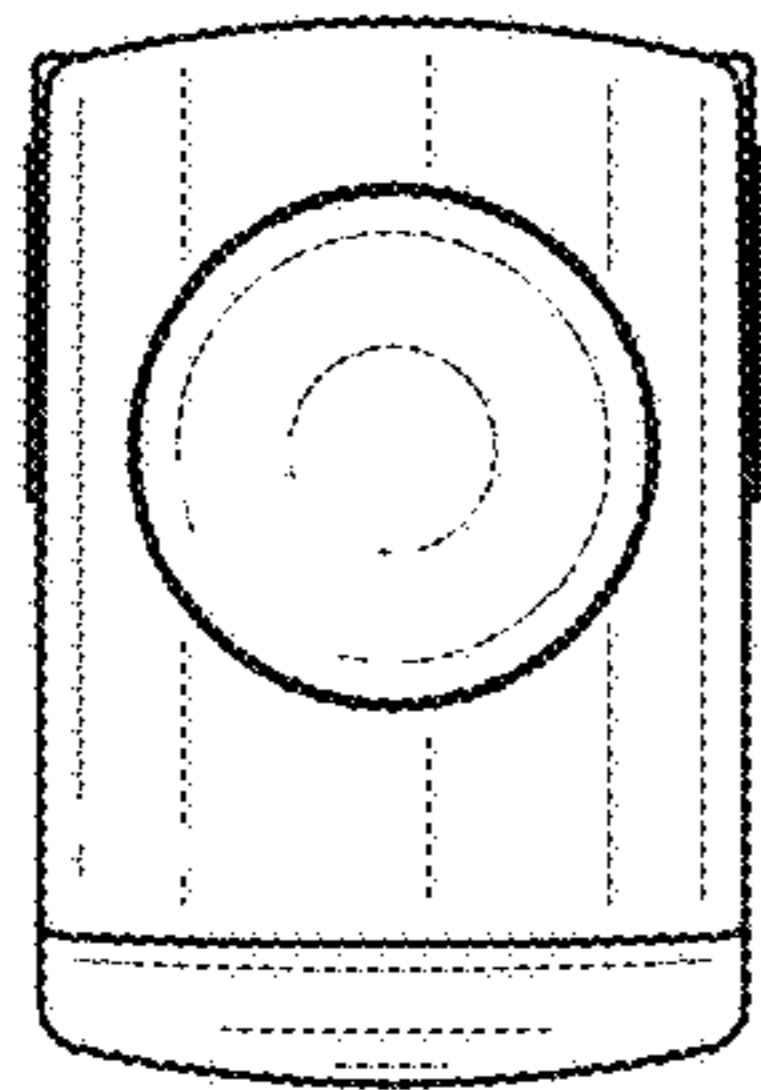


Fig. 4

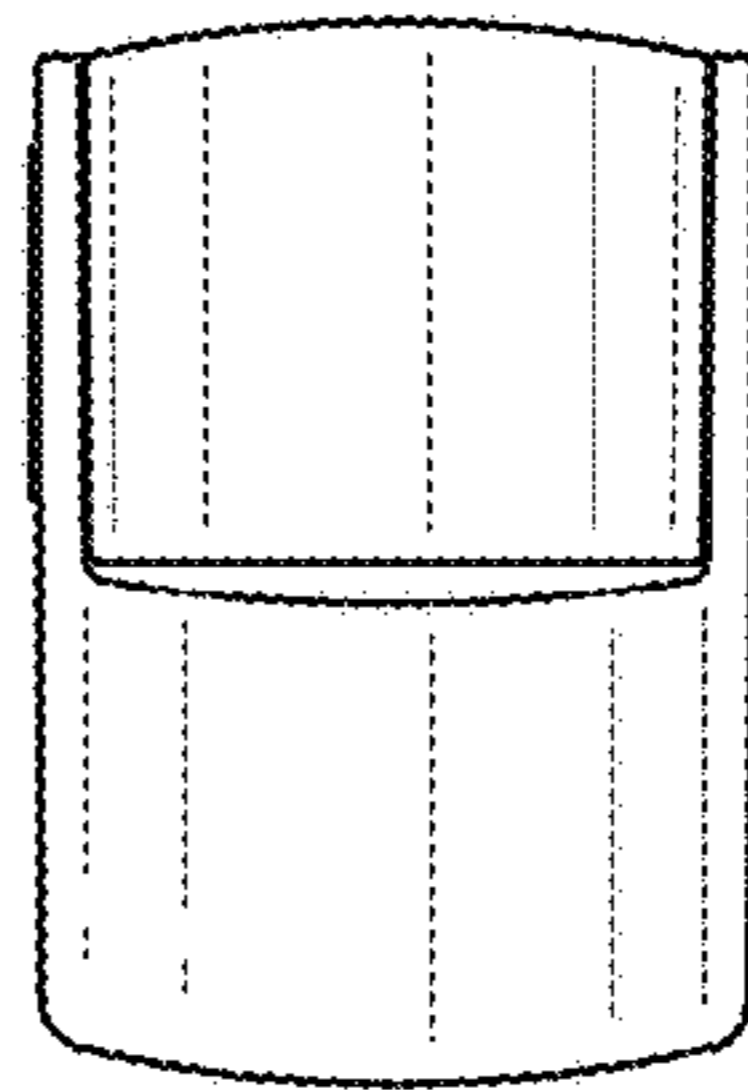


Fig. 5

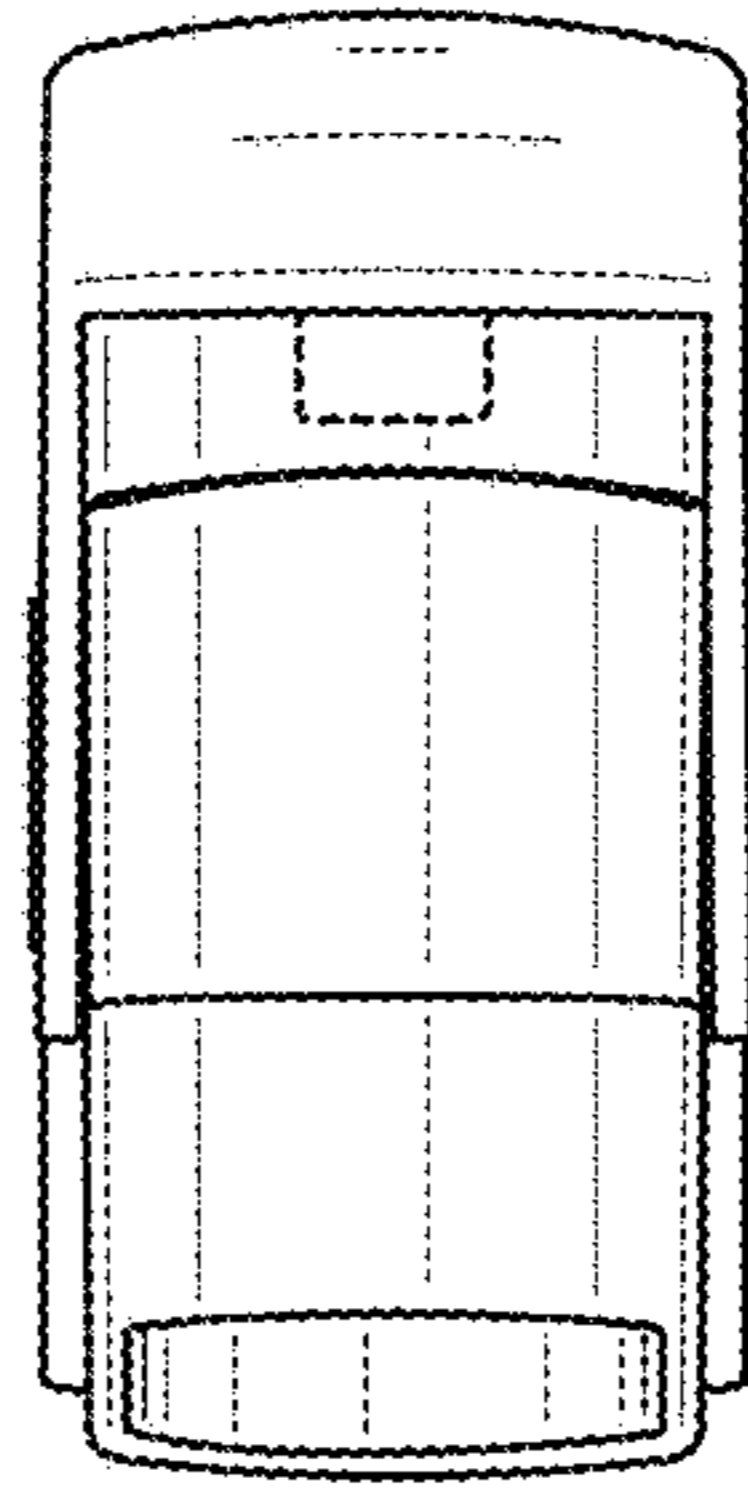


Fig. 6

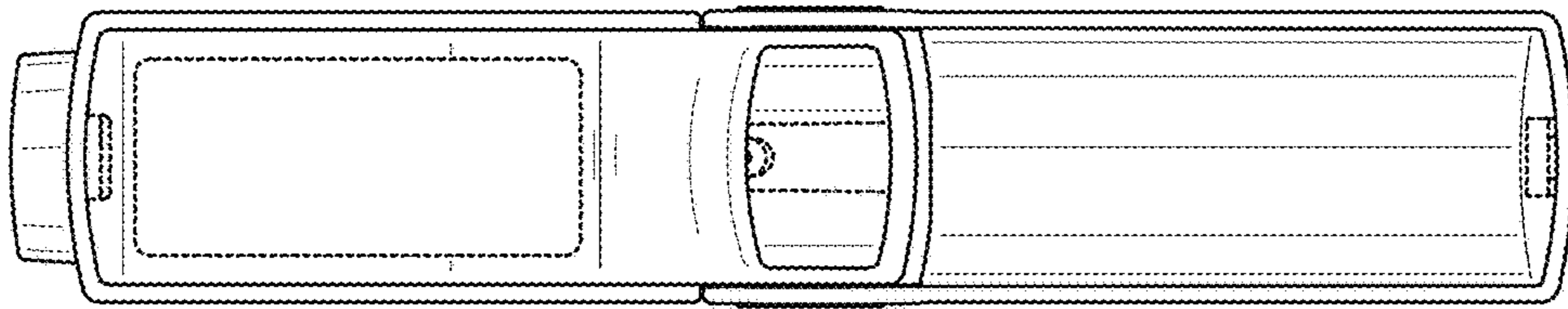


Fig. 8

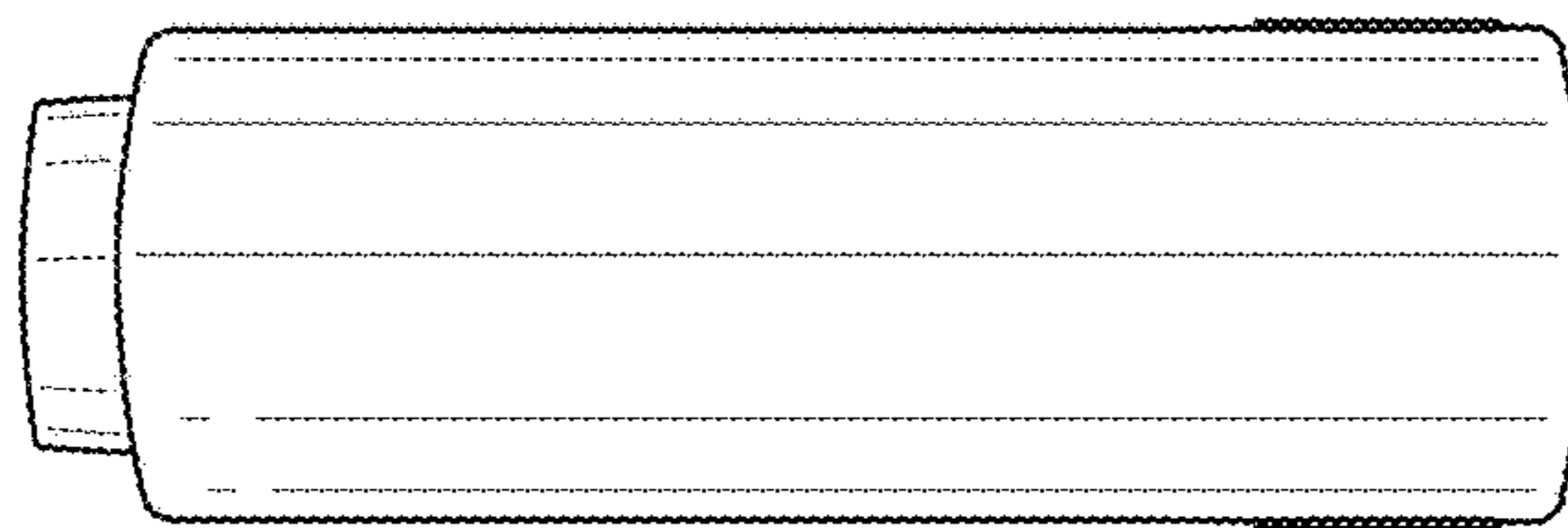


Fig. 7

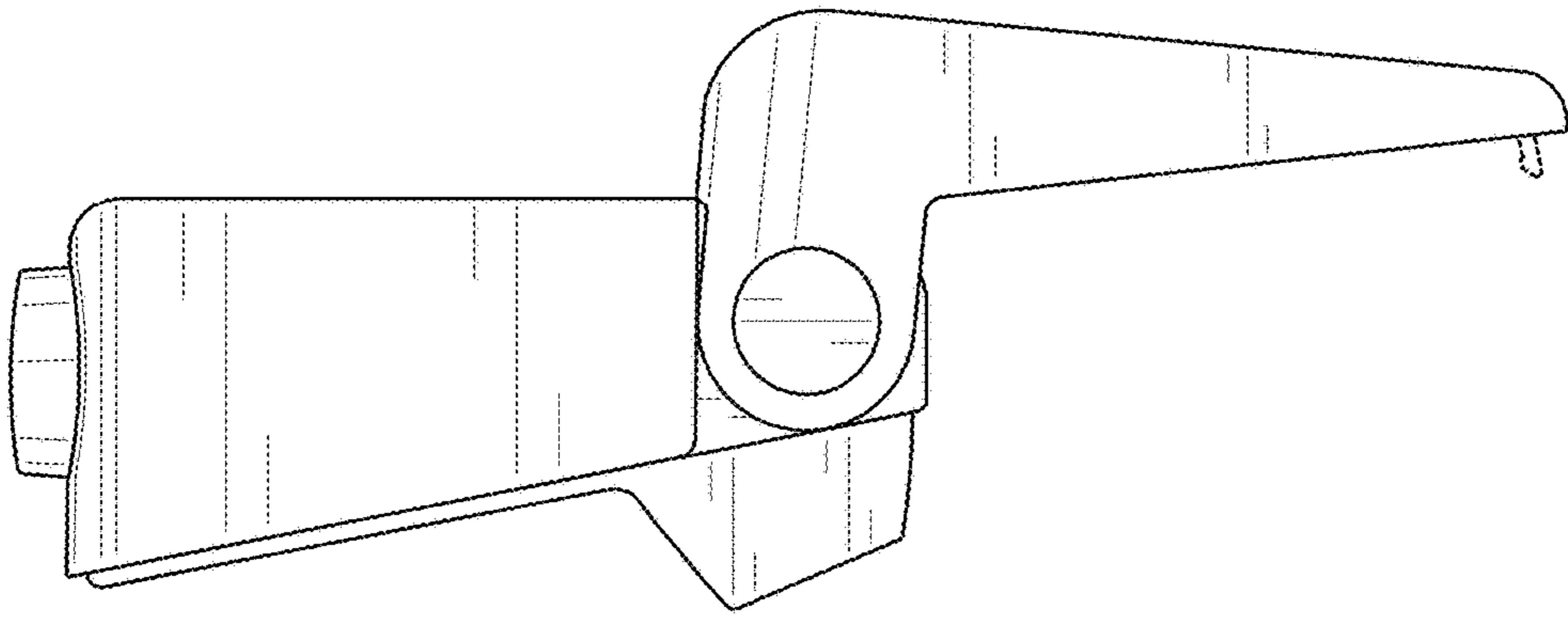


Fig. 10

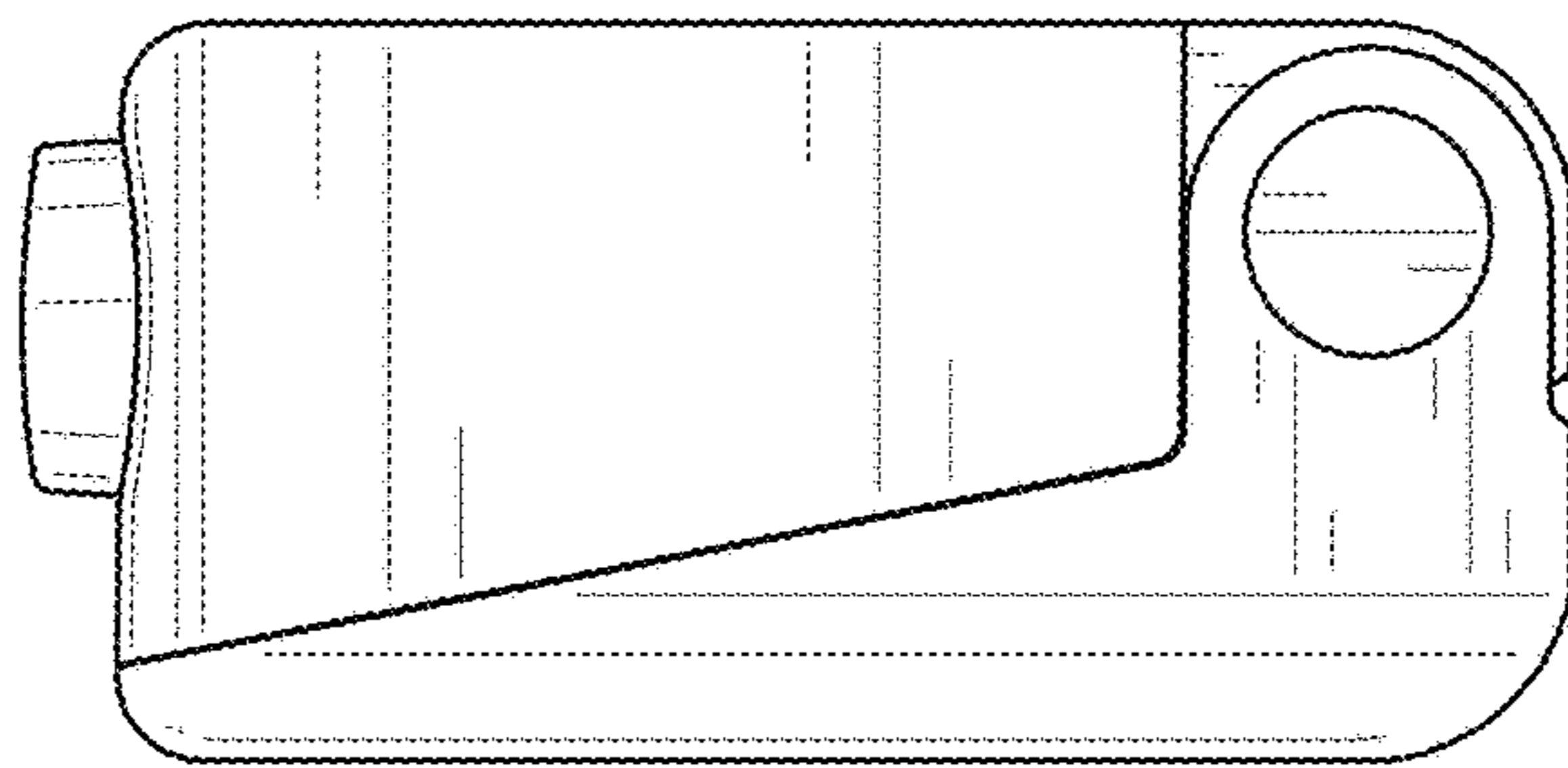


Fig. 9

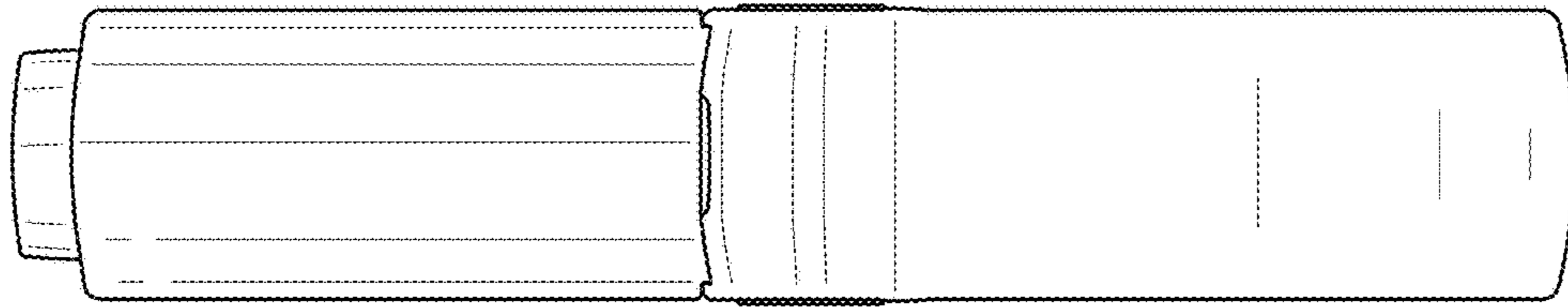


Fig. 12

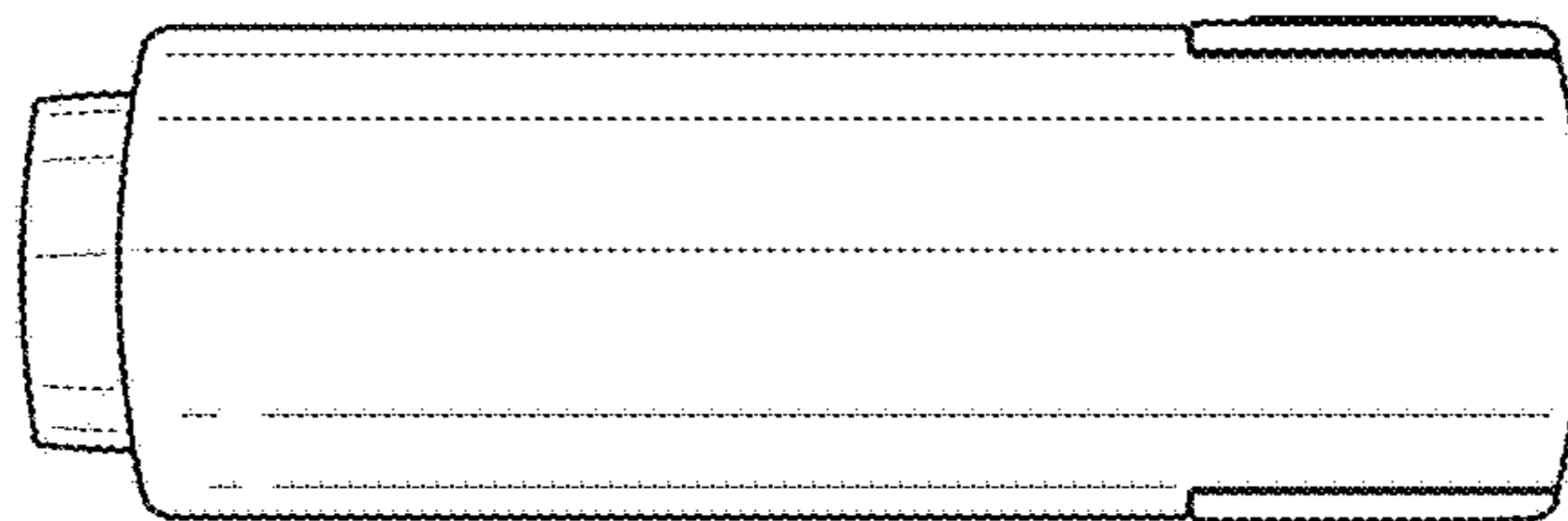


Fig. 11