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(12) **United States Design Patent** (10) **Patent No.:** **US D948,118 S**
Zhou (45) **Date of Patent:** **** *Apr. 5, 2022**

(54) **HAIR CURLER**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (13) Cl.** **28-03**

(52) **U.S. Cl.**
USPC **D28/35**

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USPC D28/4, 9, 10, 11, 13, 35, 44.2; D6/542; D24/216; D7/306, 309; D15/199
CPC B65H 51/22; D03J 33/00; A45D 2/00; A45D 2/001; A45D 2/002; A45D 2/02; A45D 2/04; A45D 2/06; A45D 2/08; A45D 2/10; A45D 2/12-22; A45D 2/24-34; A45D 2/36-367; A45D 1/00; A45D 1/04; A45D 4/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,347,693 A * 5/1944 Krasberg A45D 6/045
132/242
4,731,519 A * 3/1988 Dieterle A45D 1/04
132/232

D314,444 S * 2/1991 Ho D28/35
D580,097 S * 11/2008 Leung D28/35
D629,563 S * 12/2010 Mau D28/35
D736,464 S * 8/2015 Fernandes da Costa D28/35
9,149,101 B2 * 10/2015 Richmond A45D 7/02
D748,331 S * 1/2016 Prats D28/35
D786,506 S * 5/2017 Ceva D28/35
D816,270 S * 4/2018 Yue D28/35
D821,031 S * 6/2018 Feng D28/35
D833,676 S * 11/2018 Lee D28/35
2008/0236609 A1 * 10/2008 Wong A45D 1/04
132/224
2012/0111357 A1 * 5/2012 Amkie A45D 1/04
132/230
2013/0240498 A1 * 9/2013 Tang A45D 1/04
219/225
2013/0306099 A1 * 11/2013 Lam A45D 1/04
132/211
2014/0144458 A1 * 5/2014 Hein A45D 1/04
132/226

(Continued)

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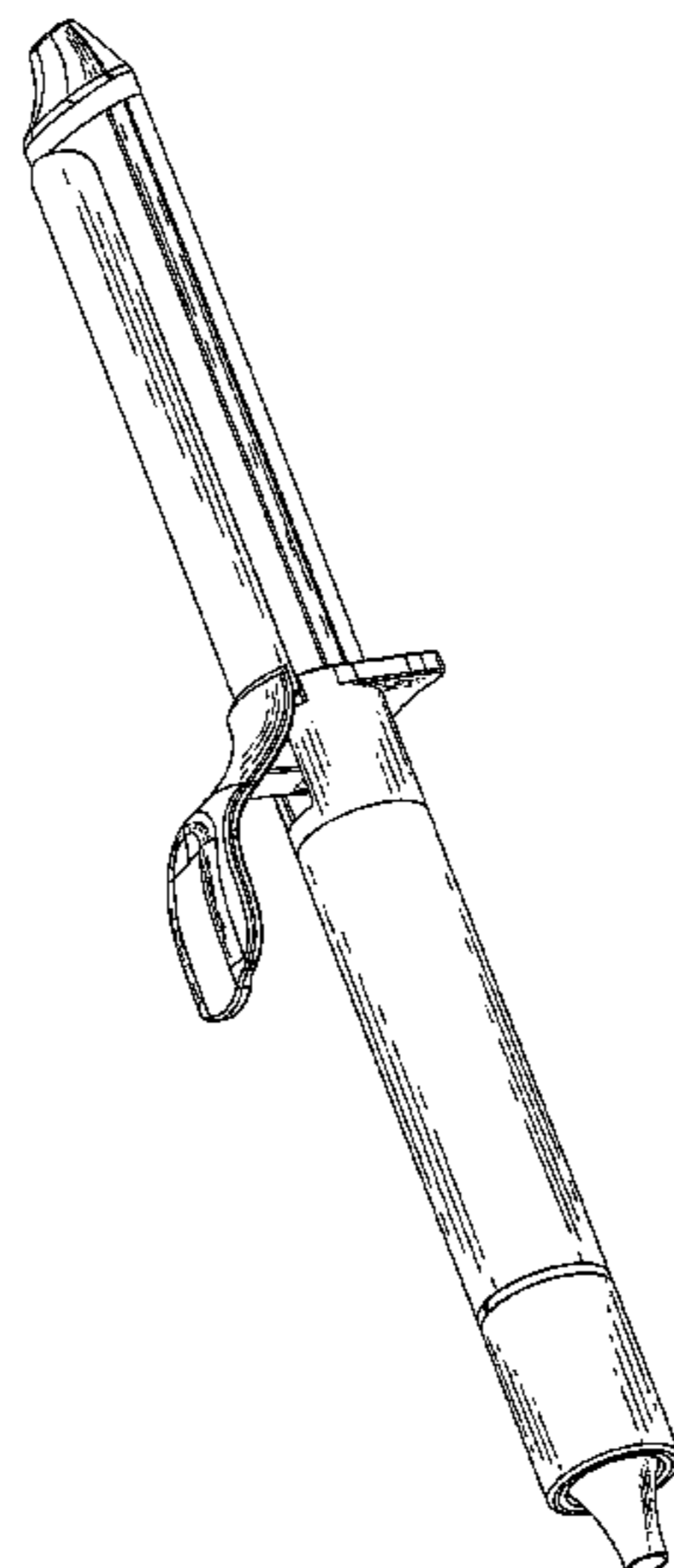
(57) **CLAIM**

The ornamental design for a hair curler, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a hair curler showing my new design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a left side elevation view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is an enlarged top plan view thereof; and,
FIG. 7 is an enlarged bottom plan view thereof.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2018/0070694 A1* 3/2018 Feng A45D 1/04
2018/0168309 A1* 6/2018 Chelle A45D 1/16

* cited by examiner

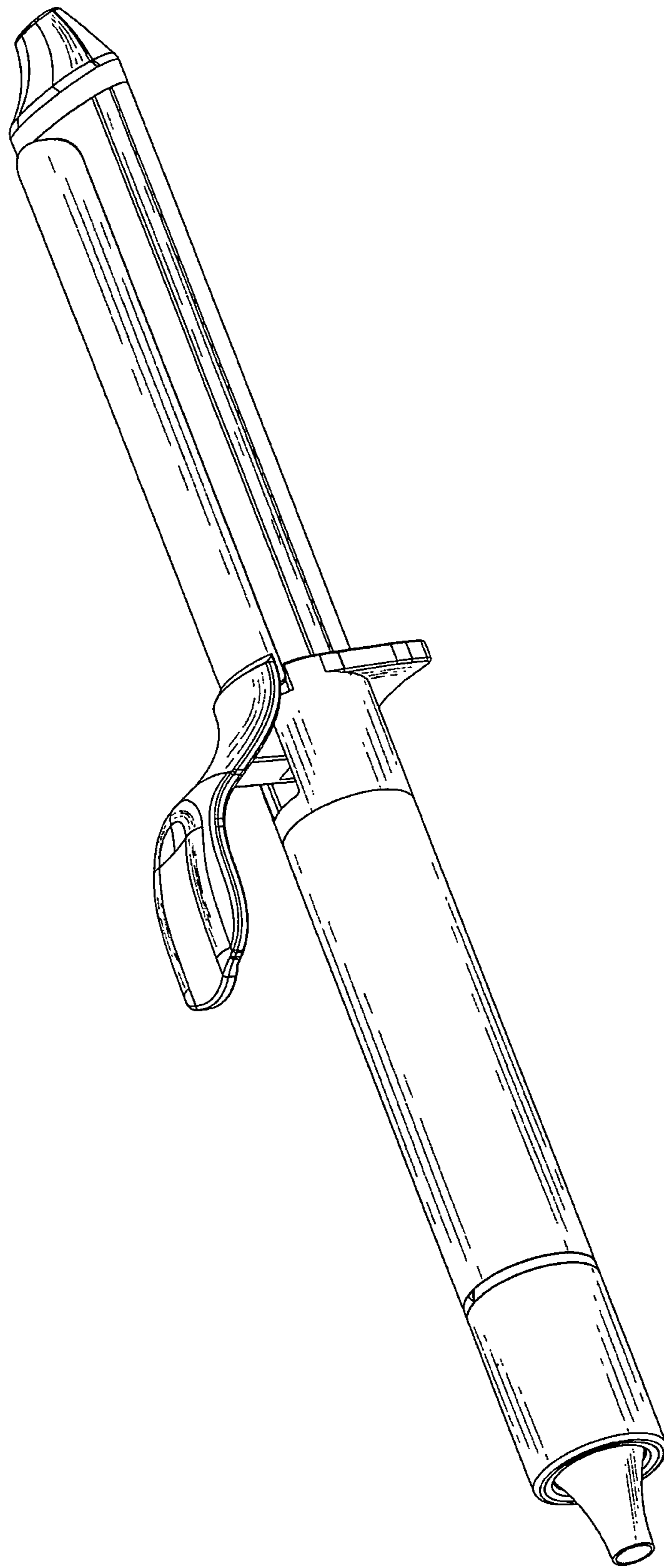


FIG. 1

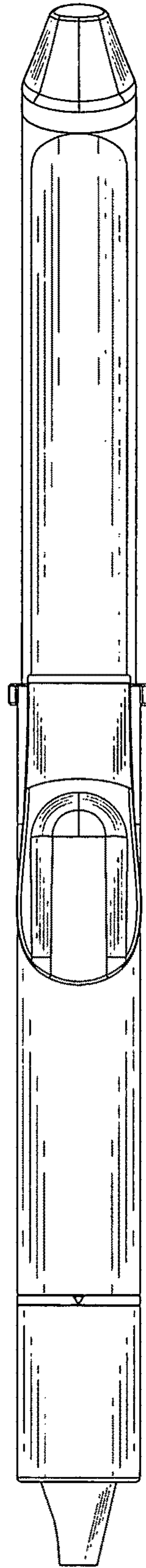


FIG. 2

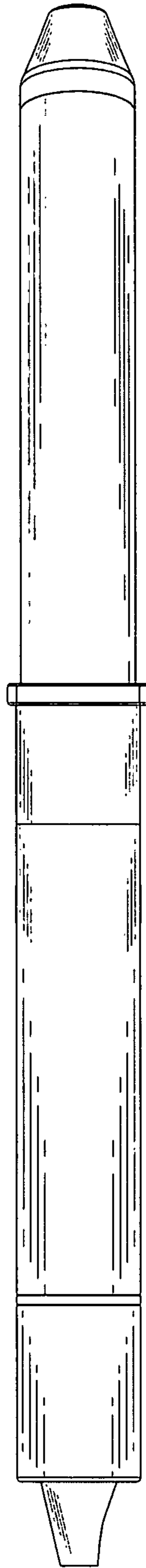


FIG.3

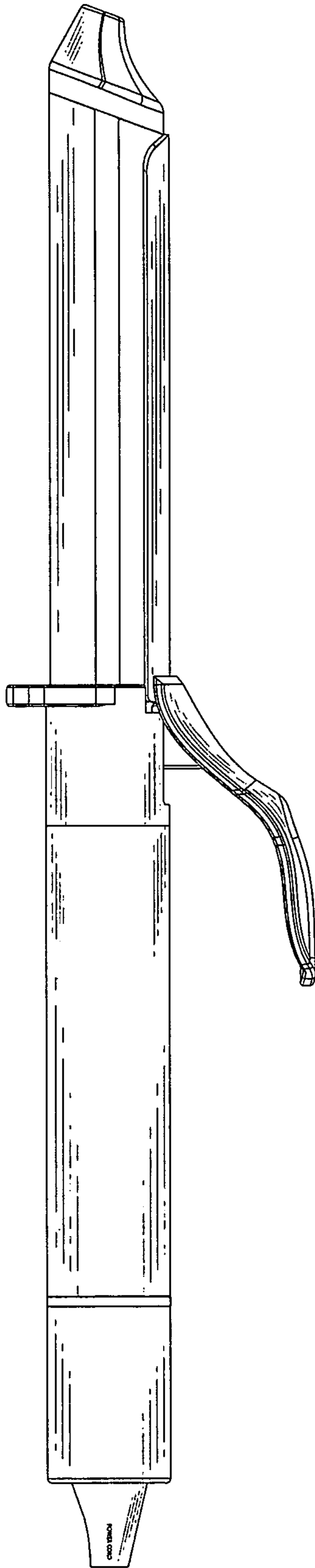


FIG. 4

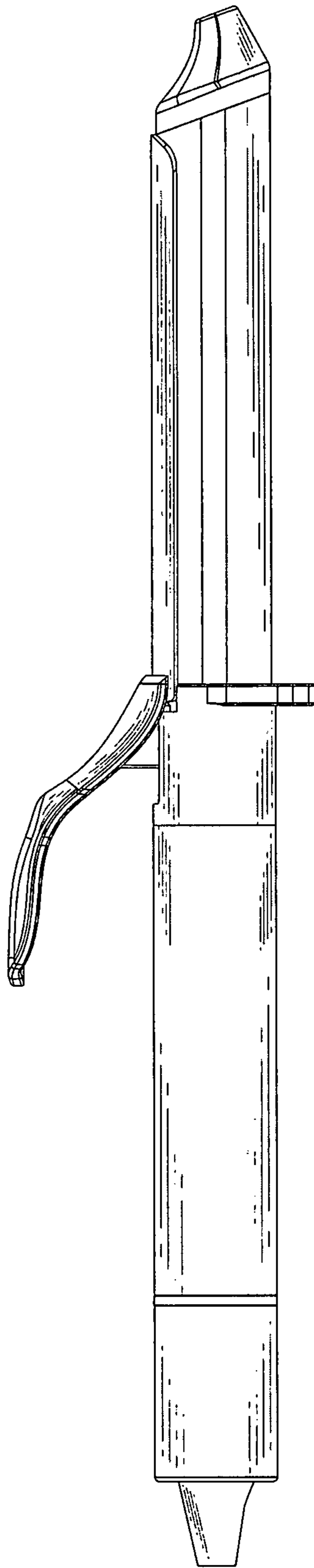


FIG.5

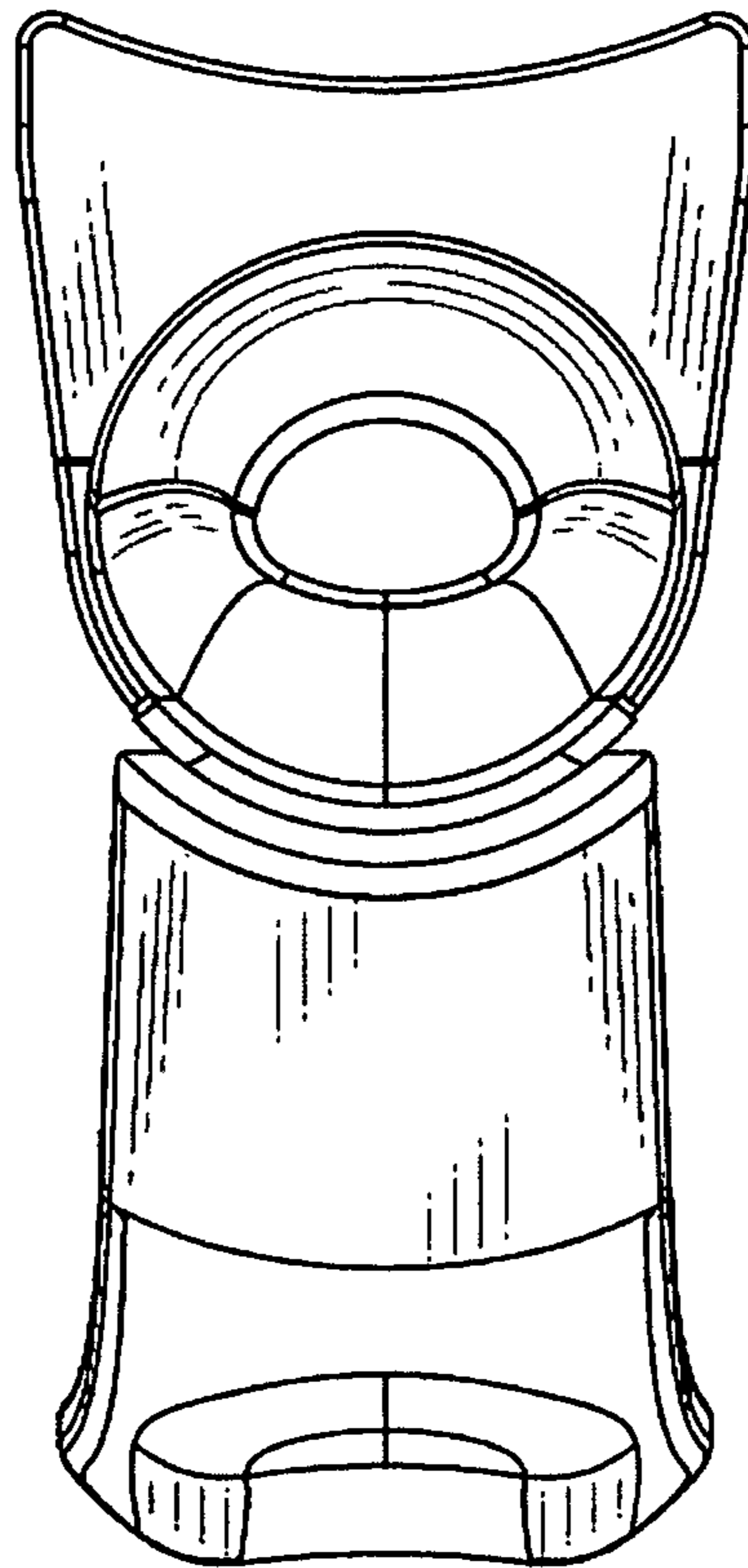


FIG.6

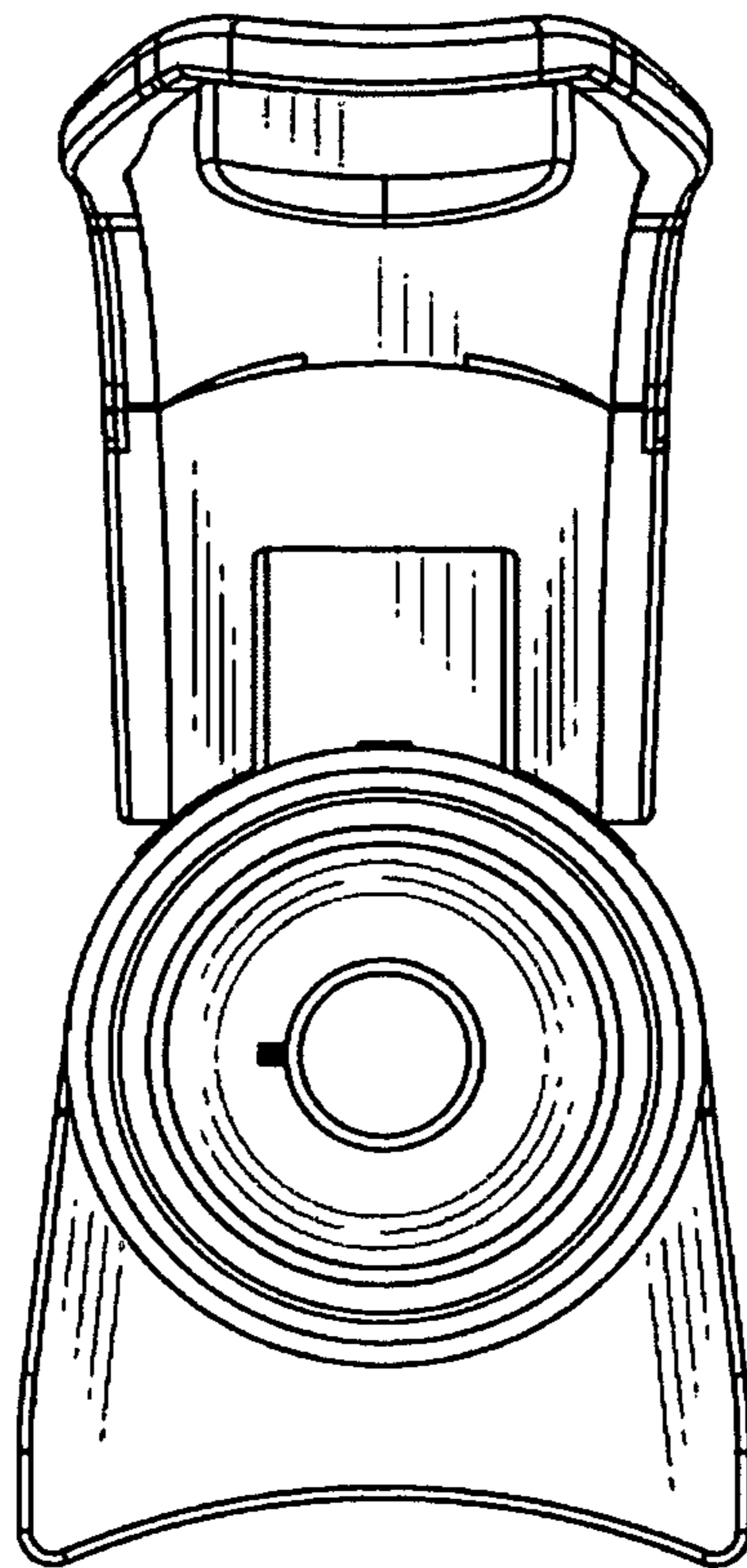


FIG. 7