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

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(54) **GAS CYLINDER CAP**  
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(\*\*) Term: **15 Years**

3,185,336 A \* 5/1965 Goss ..... F16K 1/307  
220/725  
D201,962 S \* 8/1965 Hammesfahr ..... D23/206  
D204,822 S \* 5/1966 Barker ..... D23/206  
D287,265 S \* 12/1986 Edwards ..... D23/206  
4,718,569 A \* 1/1988 Swanson ..... F17C 13/06  
220/212  
5,397,012 A \* 3/1995 Tison ..... B65D 47/0842  
215/253  
5,429,152 A \* 7/1995 Van Straaten ..... F17C 13/002  
137/377  
5,657,800 A \* 8/1997 Campbell ..... B09B 3/0058  
141/286  
6,941,964 B1 \* 9/2005 Hess ..... F16K 1/307  
137/1  
8,534,312 B2 \* 9/2013 Burgess ..... F17C 13/06  
137/377  
D692,979 S \* 11/2013 Quick ..... D23/206  
D692,980 S \* 11/2013 Quick ..... D23/206  
D709,163 S \* 7/2014 Deruntz ..... D23/206

(Continued)

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(30) **Foreign Application Priority Data**

Jun. 23, 2015 (EM) ..... 002724732-0004

(51) **LOC (10) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/206**

(58) **Field of Classification Search**  
USPC ..... D23/206, 233; 137/377, 382, 68.14;  
220/724-726, 582  
CPC ..... F16K 35/10; F17C 13/06  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,552,979 A \* 9/1925 Billings ..... F17C 13/06  
220/724  
1,642,412 A \* 9/1927 Farnsworth ..... F16K 1/302  
251/265

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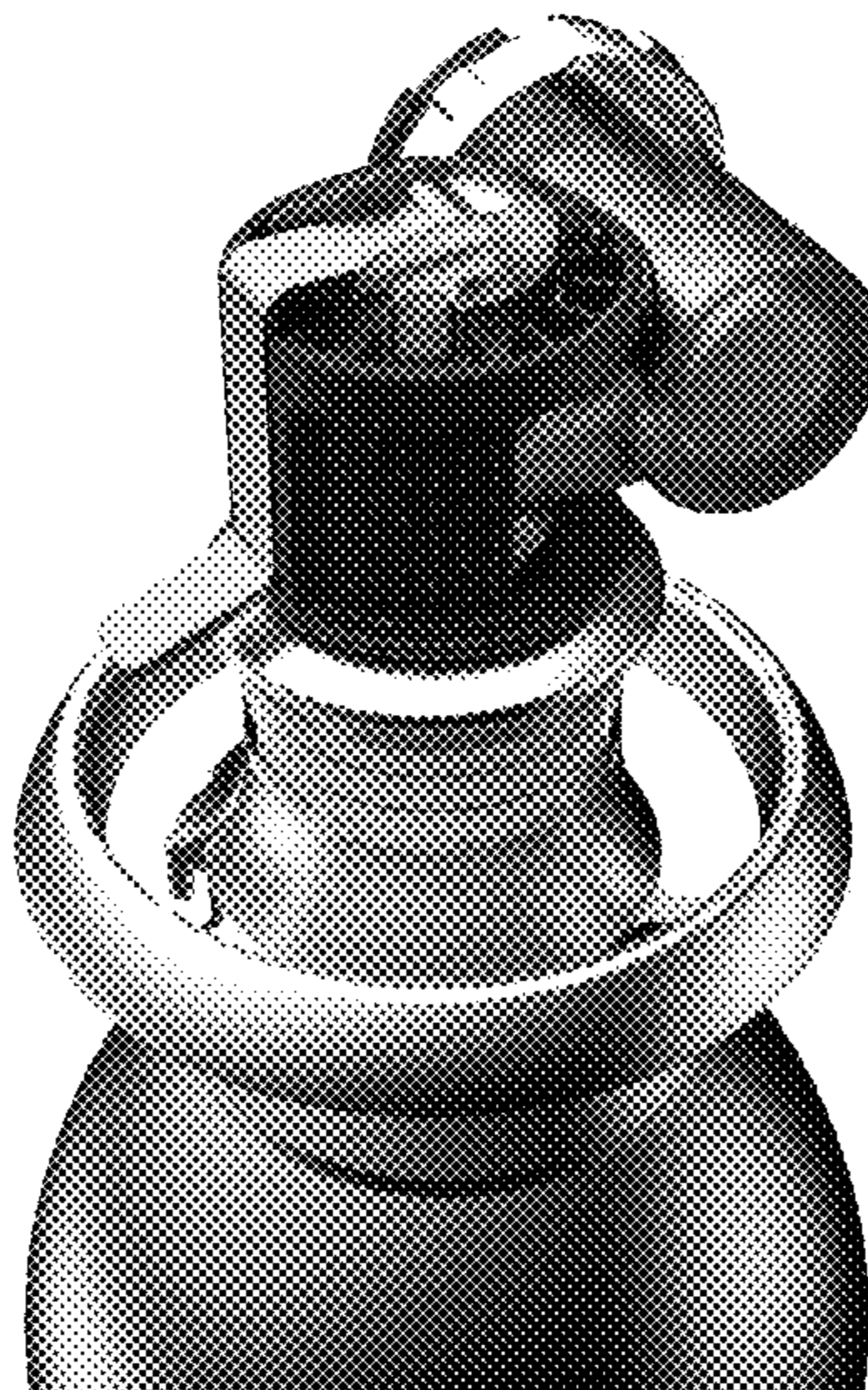
(57) **CLAIM**

The ornamental design for a gas cylinder cap, as shown and described.

**DESCRIPTION**

FIG. 1 is a side view of a gas cylinder cap in the closed position.  
FIG. 2 is a side view of a gas cylinder cap.  
FIG. 3 is a side view of a gas cylinder cap.  
FIG. 4 is a side view of a gas cylinder cap in the open position.  
FIG. 5 is a top view of a gas cylinder cap in the closed position.  
FIG. 6 is an isometric view of a gas cylinder cap in the closed position; and,  
FIG. 7 is an isometric view of a gas cylinder cap in the closed position.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D768,266 S \* 10/2016 Pareek ..... D23/233  
9,506,577 B2 \* 11/2016 Harris ..... F16K 17/366

\* cited by examiner

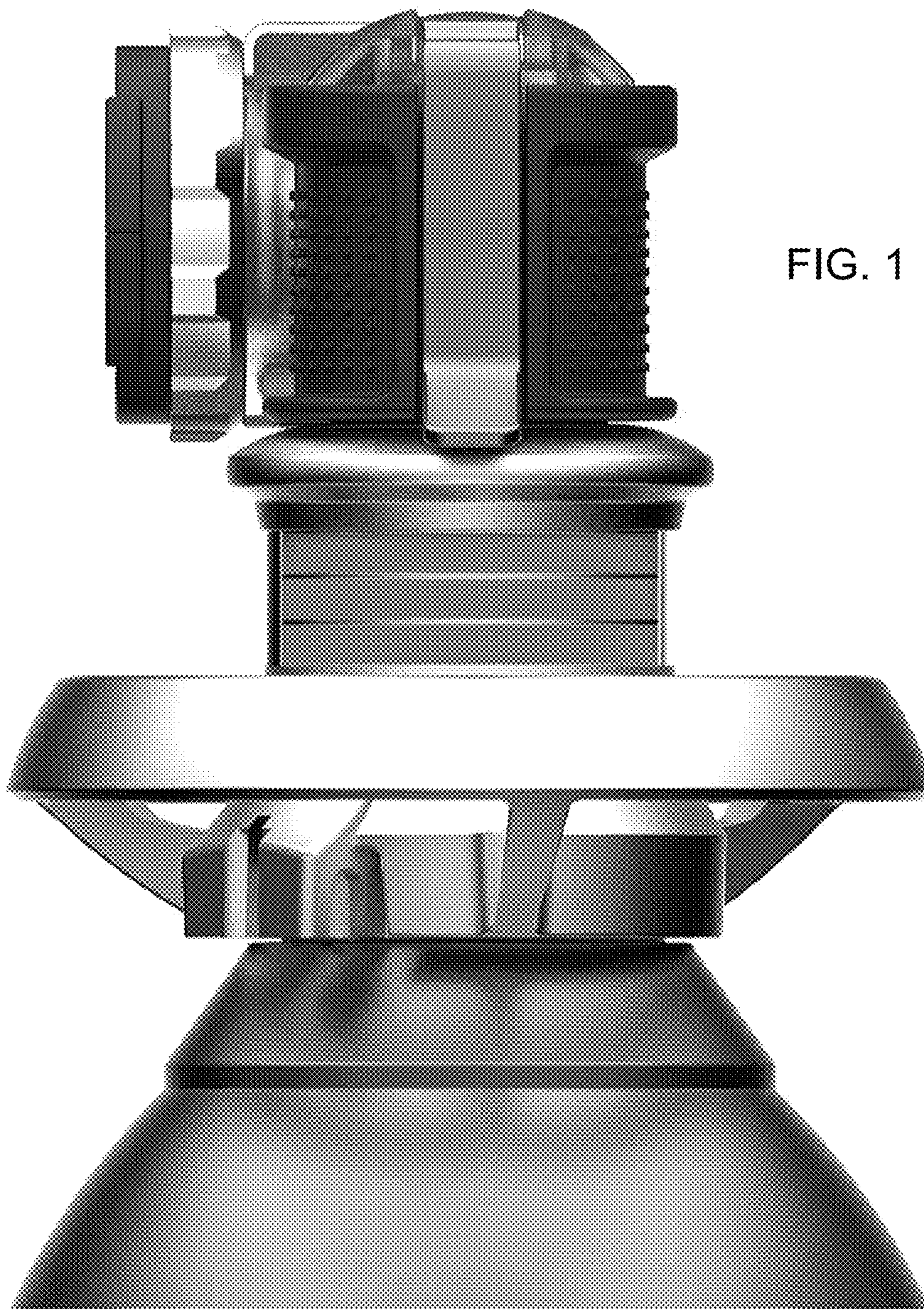


FIG. 1

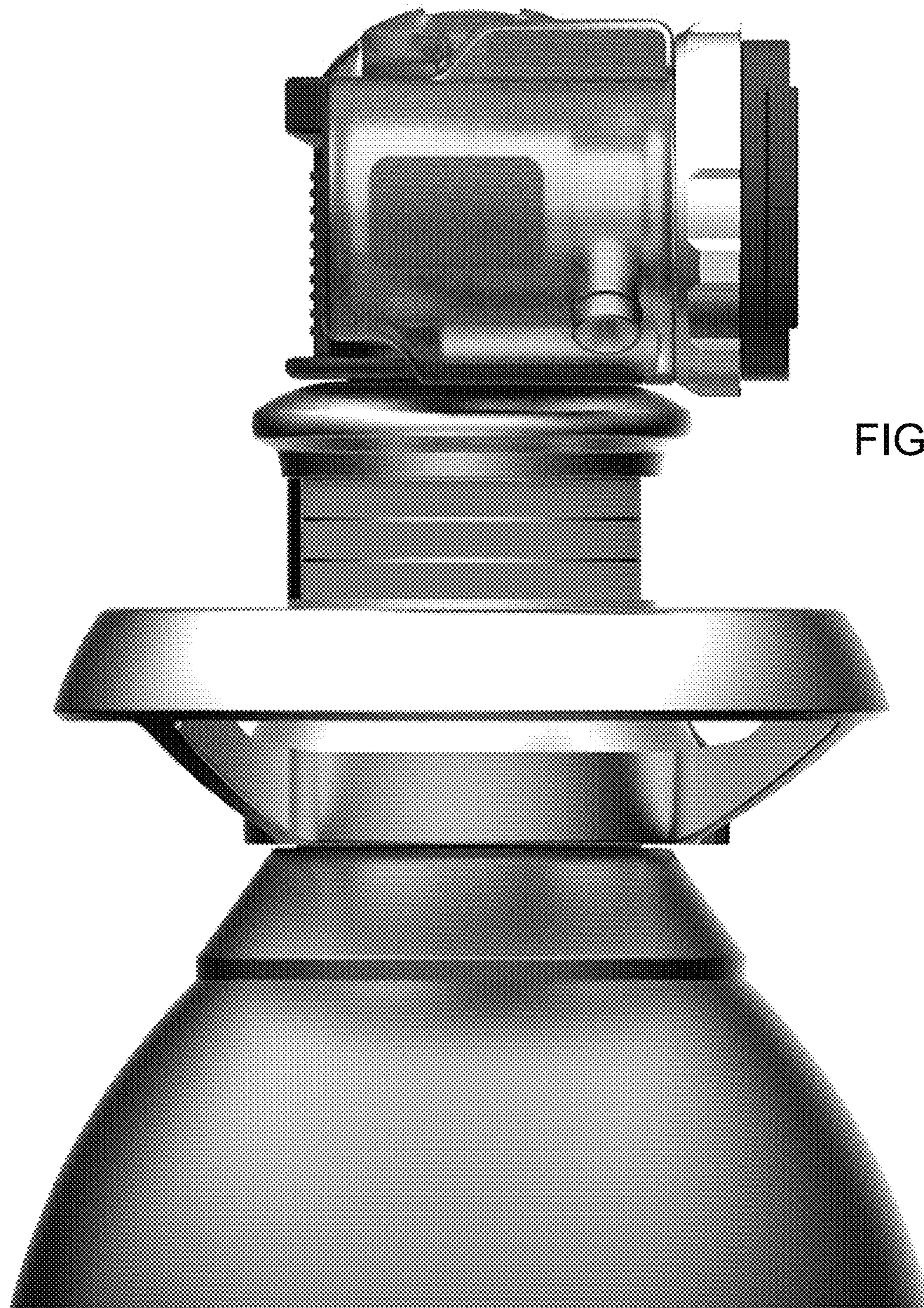


FIG. 2

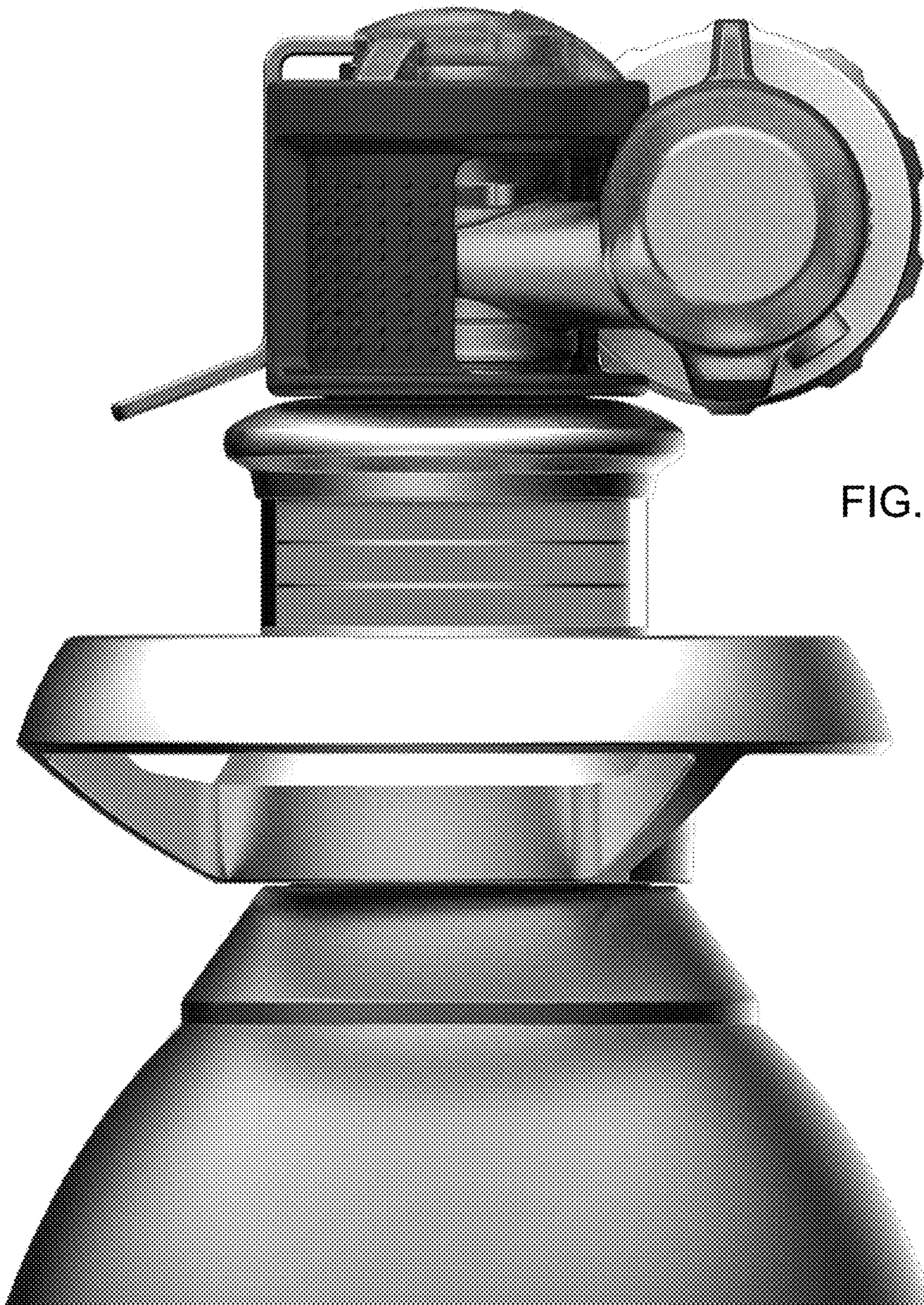


FIG. 3

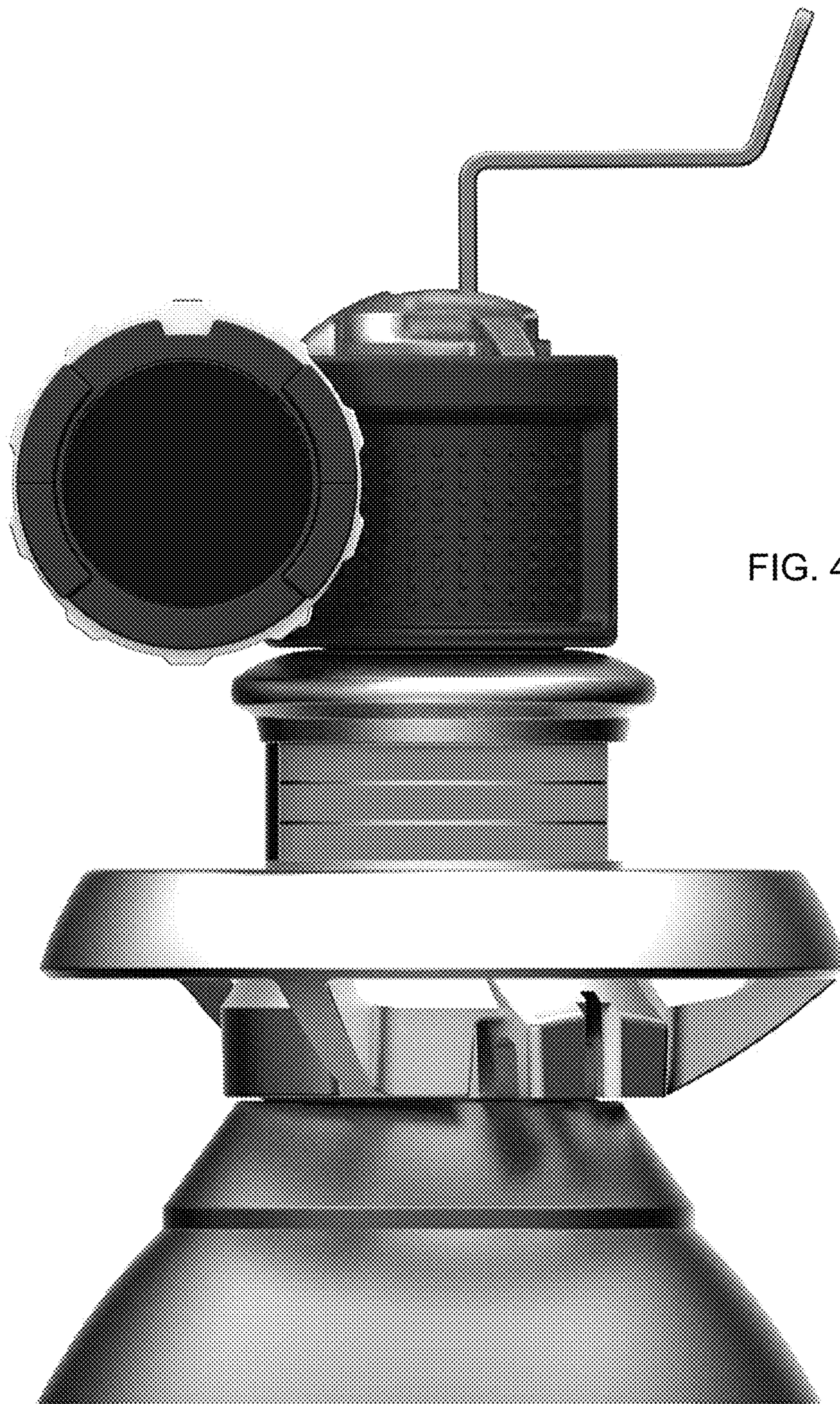


FIG. 4

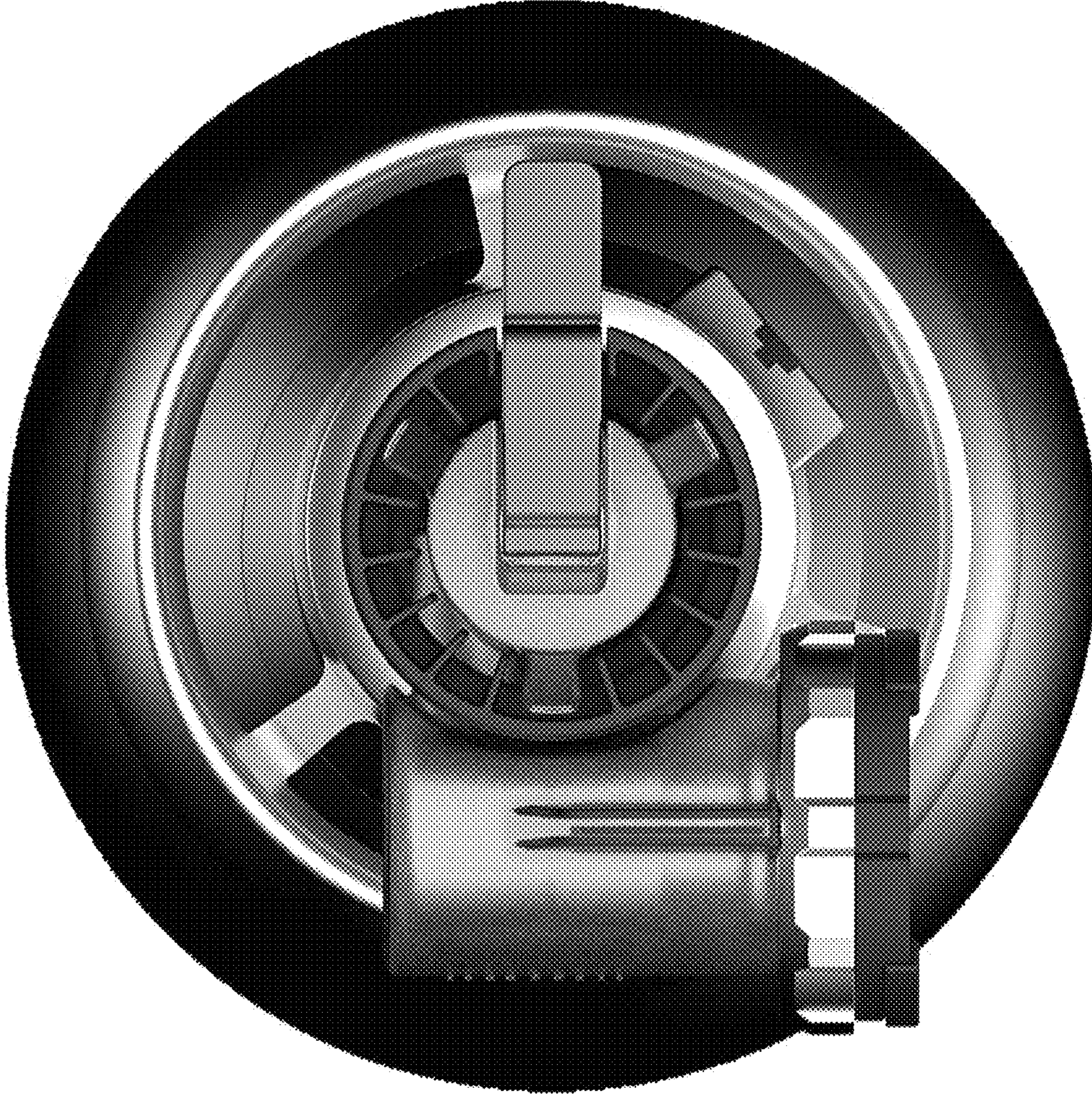


FIG. 5

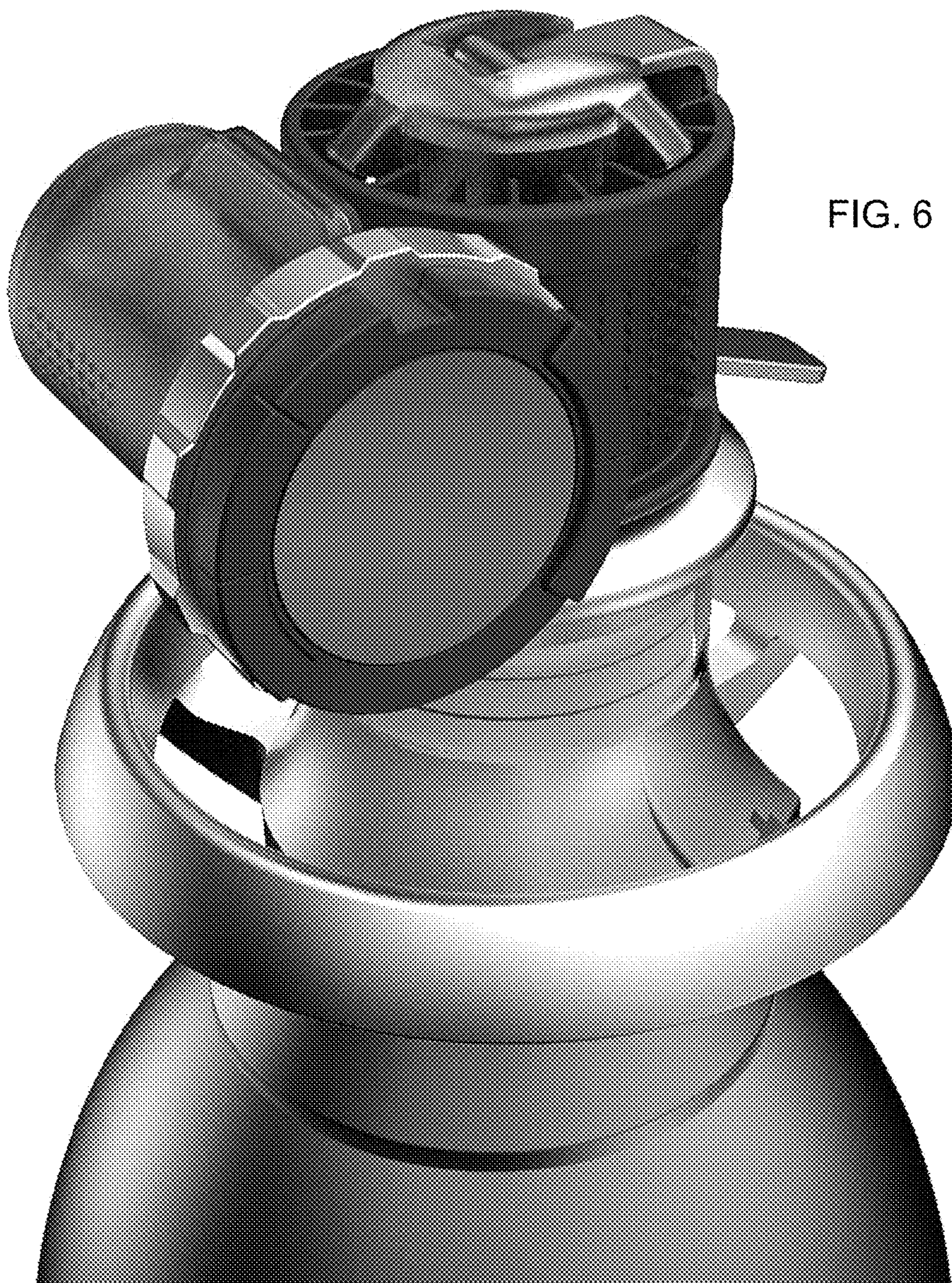


FIG. 6



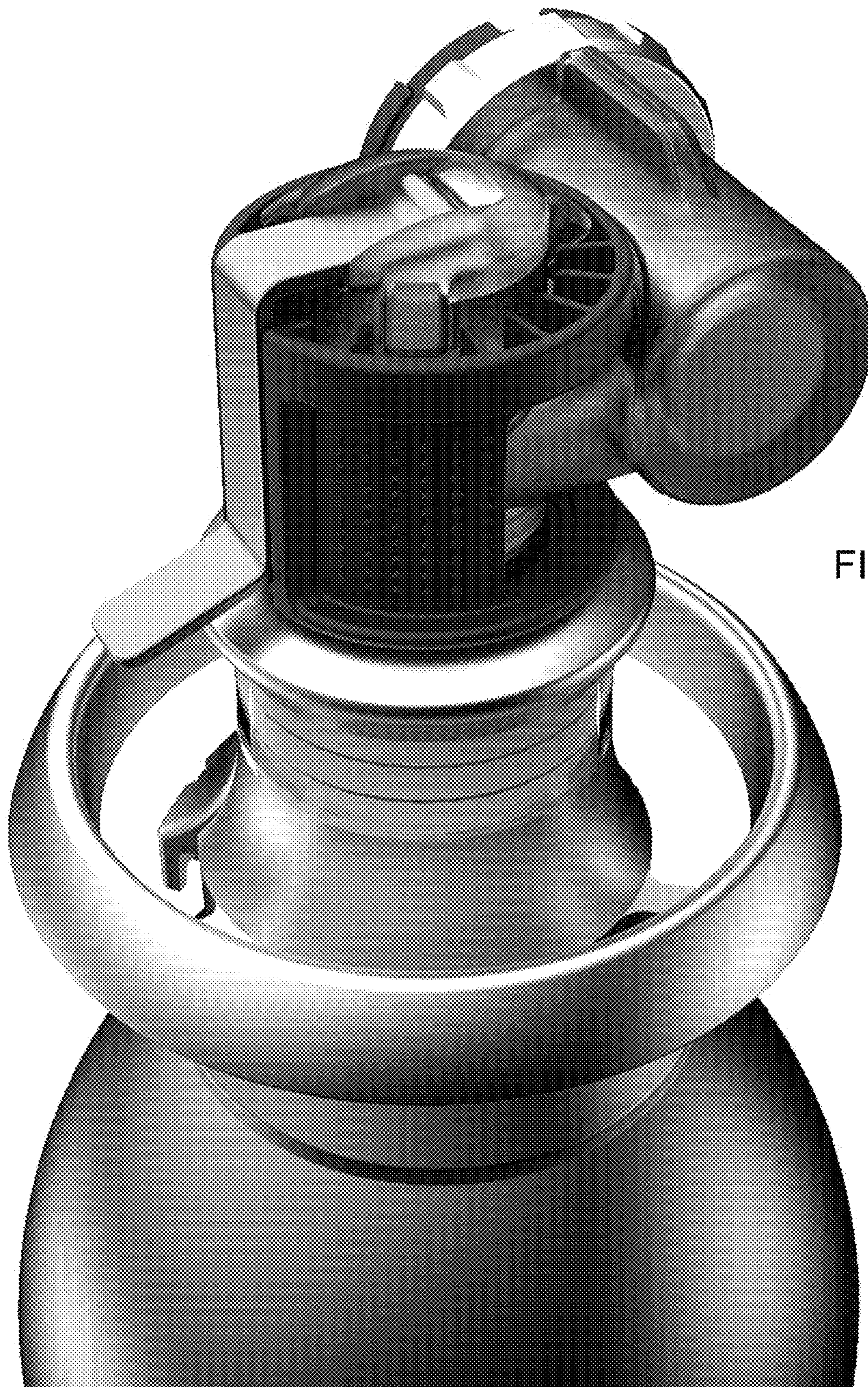


FIG. 7