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Graykowski et al.

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(45)

Date of Patent:

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- (54) CARABINER
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- (**) Term: 15 Years
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- (52) U.S. Cl.
USPC D8/356
- (58) Field of Classification Search
USPC D8/356, 354, 105, 349, 367; D3/207;
119/865; 24/684
CPC B65H 57/16; B63B 21/045; A63B 29/08;
A63B 27/02
See application file for complete search history.

References Cited

U.S. PATENT DOCUMENTS

- D342,665 S * 12/1993 Rekuc D8/367
- D348,385 S * 7/1994 Krauss D8/367

- D355,585 S * 2/1995 Terada D8/367
- D391,694 S * 3/1998 Eichhorn 119/784
- D391,840 S * 3/1998 Striebel D8/367
- D394,202 S * 5/1998 Anscher D8/367
- D402,189 S * 12/1998 Izumi D8/382
- D483,647 S 12/2003 Lo
- D491,049 S * 6/2004 Kung D8/367
- D579,763 S * 11/2008 Uehara D8/367
- 7,444,723 B2 11/2008 Lin
- D583,654 S * 12/2008 Uehara D8/367
- D625,988 S 10/2010 Chan
- D626,908 S 11/2010 Marcaccio
- 7,922,220 B2 4/2011 Coulombe
- D649,018 S 11/2011 Kope
- D649,024 S * 11/2011 Takazakura D8/367
- D658,487 S 5/2012 Chih
- D659,518 S 5/2012 Xu
- D665,655 S * 8/2012 Ishii D8/367
- D675,806 S * 2/2013 Caul D2/500
- D730,159 S * 5/2015 Grimm D8/356
- D730,722 S 6/2015 Grimm et al.
- D740,645 S * 10/2015 Koreishi D8/367

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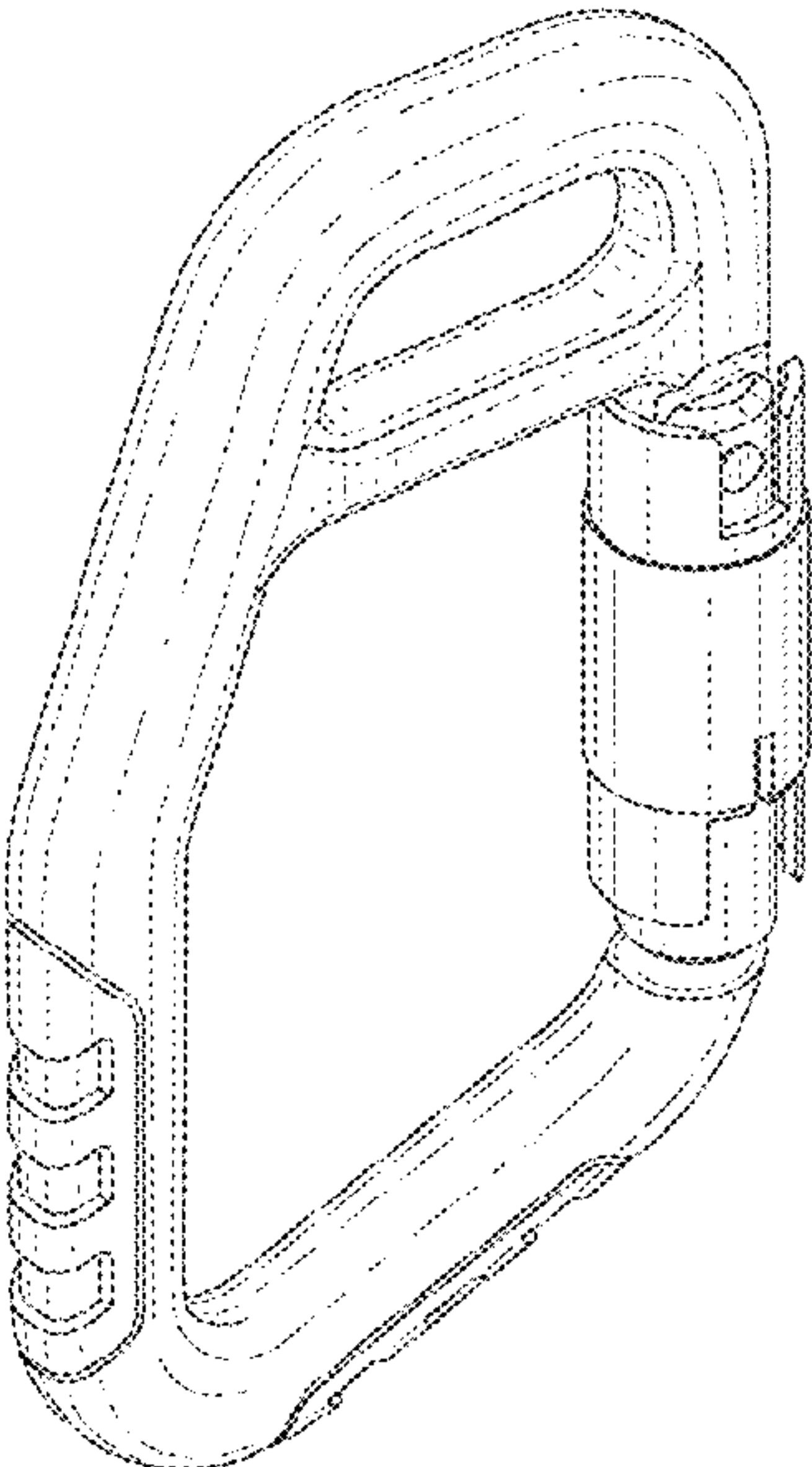
CLAIM

We claim the ornamental design for a carabiner, as shown
and described.

DESCRIPTION

FIG. 1 is a perspective view of a carabiner according to an
embodiment of the invention;
FIG. 2 is a right side view of the carabiner of FIG. 1;
FIG. 3 is a left side view of the carabiner of FIG. 1;
FIG. 4 is a back side view of the carabiner of FIG. 1;
FIG. 5 is a front side view of the carabiner of FIG. 1;
FIG. 6 is a top side view of the carabiner of FIG. 1; and,
FIG. 7 is a bottom side view of the carabiner of FIG. 1.

1 Claim, 4 Drawing Sheets



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References Cited

U.S. PATENT DOCUMENTS

D743,778 S 11/2015 Huang
D765,497 S 9/2016 Petzl
9,500,221 B2 11/2016 Yang et al.
D785,316 S * 5/2017 Grossman D8/356
D788,572 S 6/2017 Votel et al.
D790,327 S 6/2017 Renforth
D804,270 S 12/2017 Huang
D819,429 S 6/2018 Newing et al.
D821,090 S * 6/2018 Case D8/356
10,060,466 B2 * 8/2018 Kaneko F16B 45/02
D837,635 S * 1/2019 Petzl D8/356
D841,115 S 2/2019 Ishihara
D848,823 S 5/2019 Graykowski
D852,609 S * 7/2019 LeBeau D8/356
D854,401 S 7/2019 Adelman
D856,118 S 8/2019 Adelman
D867,855 S 11/2019 Cowell
D869,938 S 12/2019 Warren
D878,910 S 3/2020 O'Neill
D882,378 S * 4/2020 Graykowski D8/356
D885,871 S 6/2020 Adelman

D892,600 S * 8/2020 Schmitz D8/367
D892,601 S * 8/2020 Schmitz D8/367
D894,718 S * 9/2020 Kramer D8/356
D902,009 S * 11/2020 Yang D8/356
D931,715 S 9/2021 Hung
D933,462 S * 10/2021 Zunzunegui D8/367
2006/0179784 A1 * 8/2006 Chen F16B 45/00
52/698
2012/0011688 A1 1/2012 Yang
2013/0219673 A1 8/2013 Perner
2014/0110956 A1 4/2014 Lin
2014/0123447 A1 5/2014 Calvert
2014/0138191 A1 5/2014 Chabod et al.
2014/0245576 A1 * 9/2014 Perner F16B 45/02
24/600.1
2015/0000613 A1 1/2015 Cooke
2015/0231423 A1 * 8/2015 Perner A62B 35/0037
24/518
2016/0061251 A1 3/2016 Rogelja
2016/0281766 A1 9/2016 Moine
2016/0361578 A1 * 12/2016 Casebolt A62B 35/0075
2016/0363159 A1 12/2016 Yeh
2016/0376129 A1 12/2016 Hendrix et al.

* cited by examiner

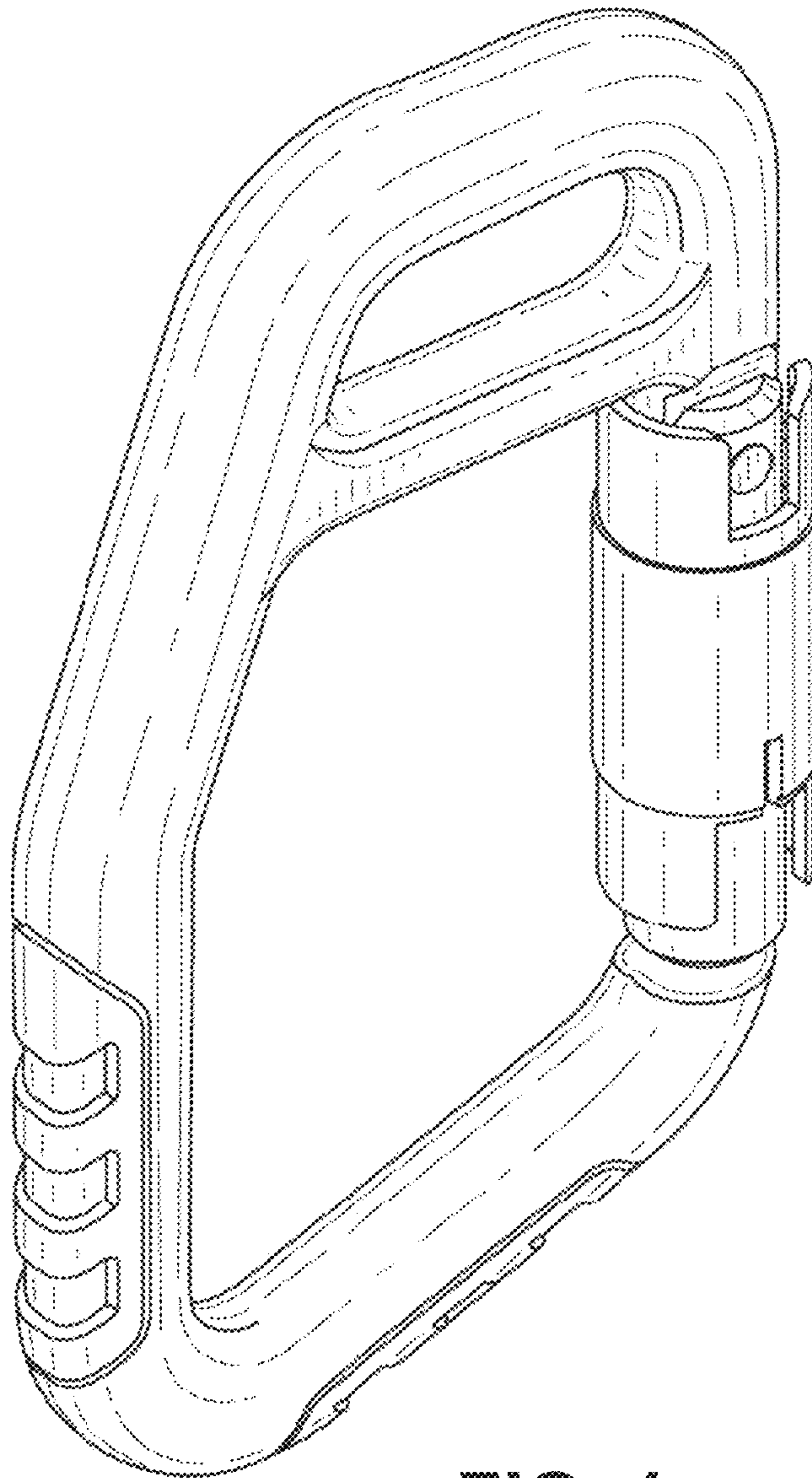


FIG. 1

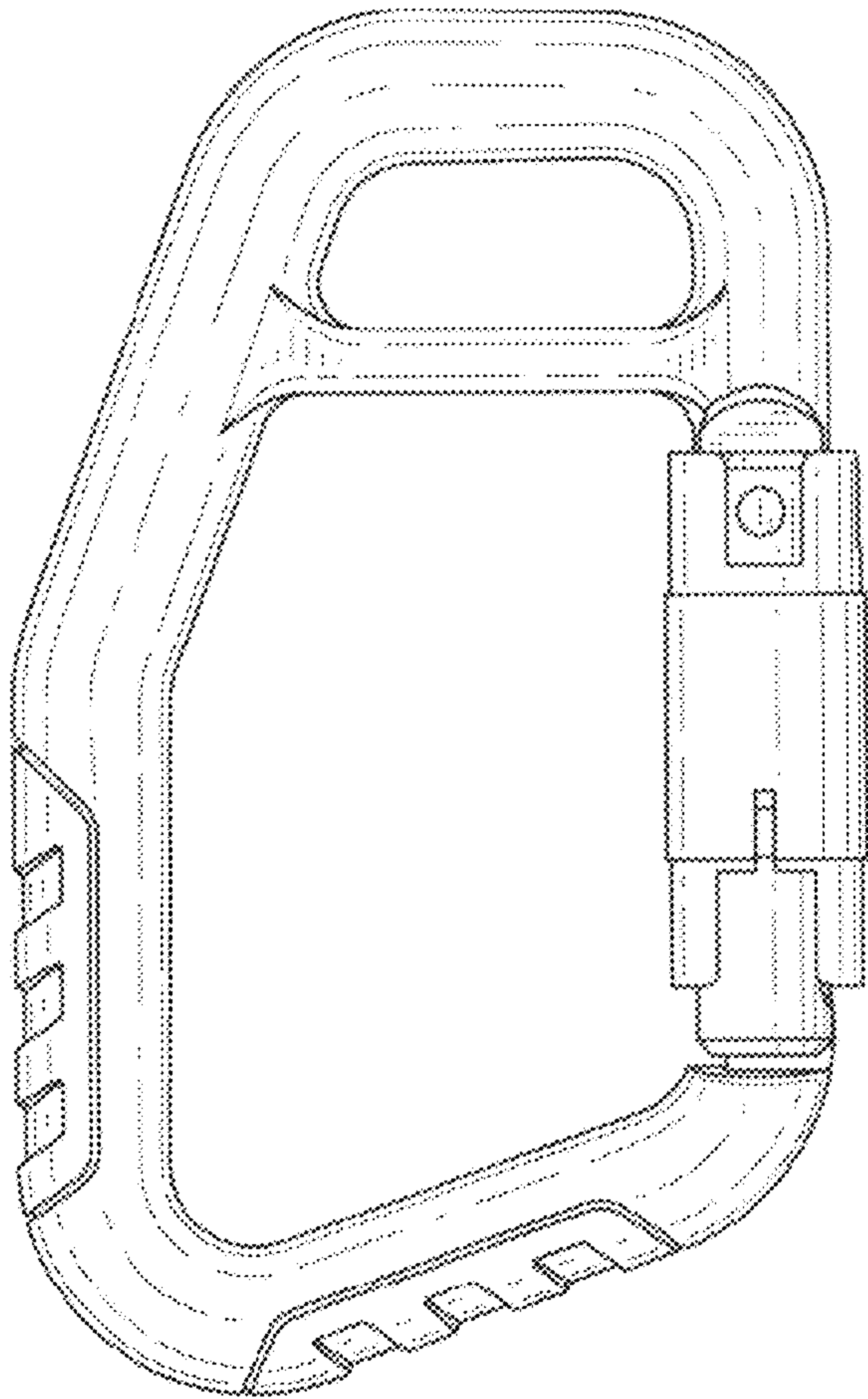


FIG. 2

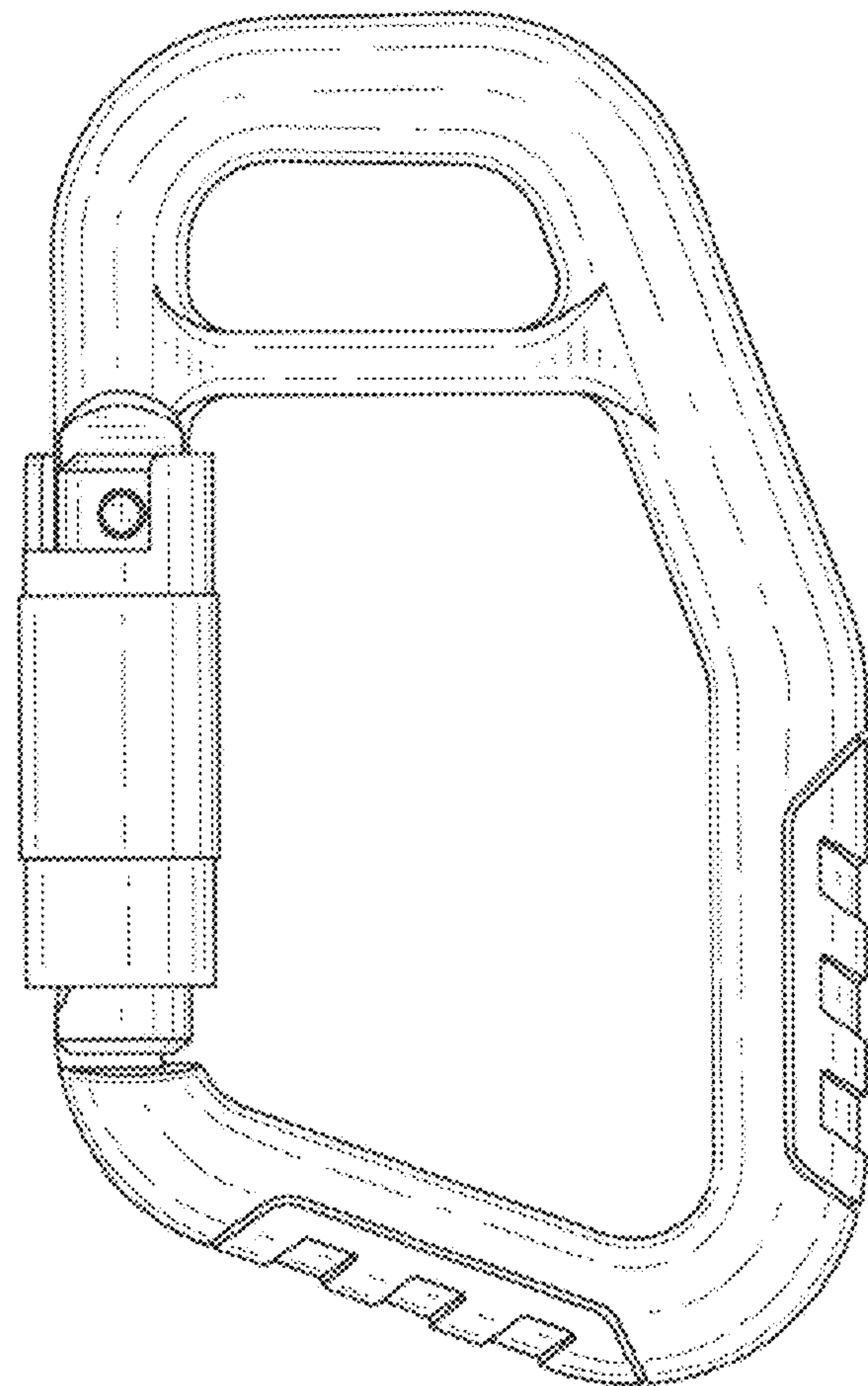


FIG. 3

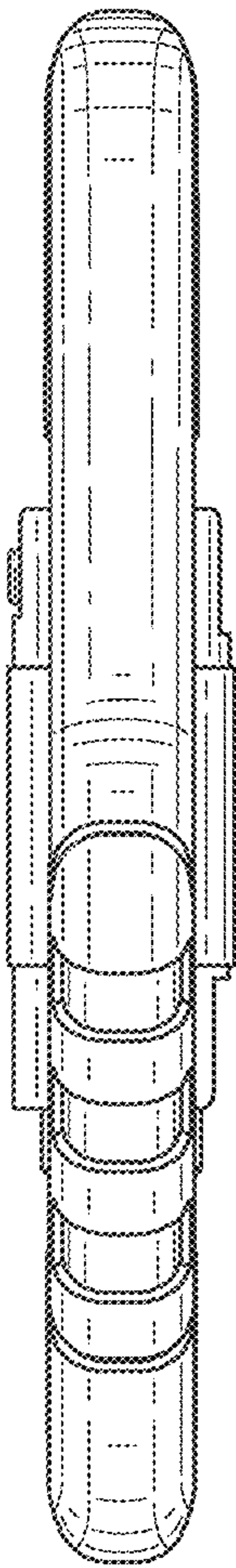


FIG. 4

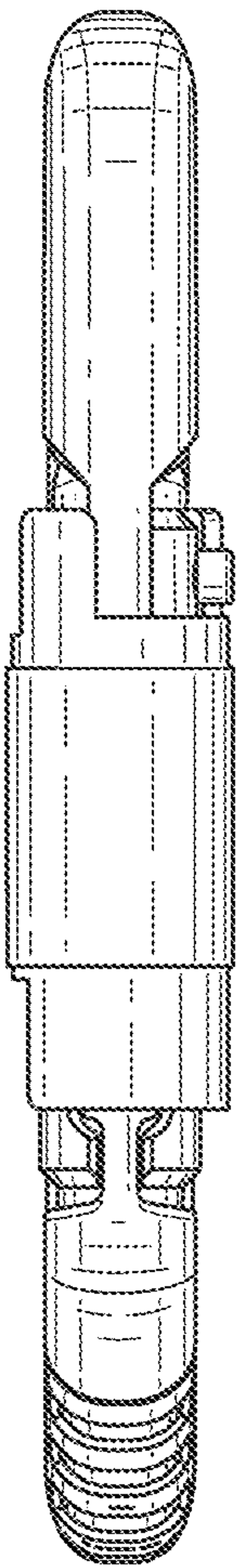


FIG. 5

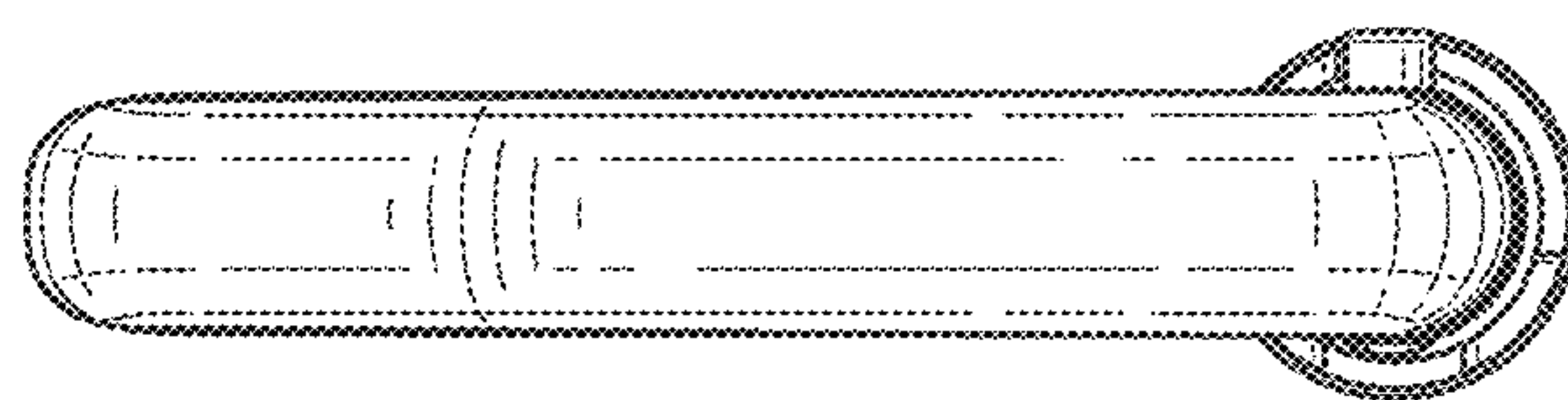


FIG. 6

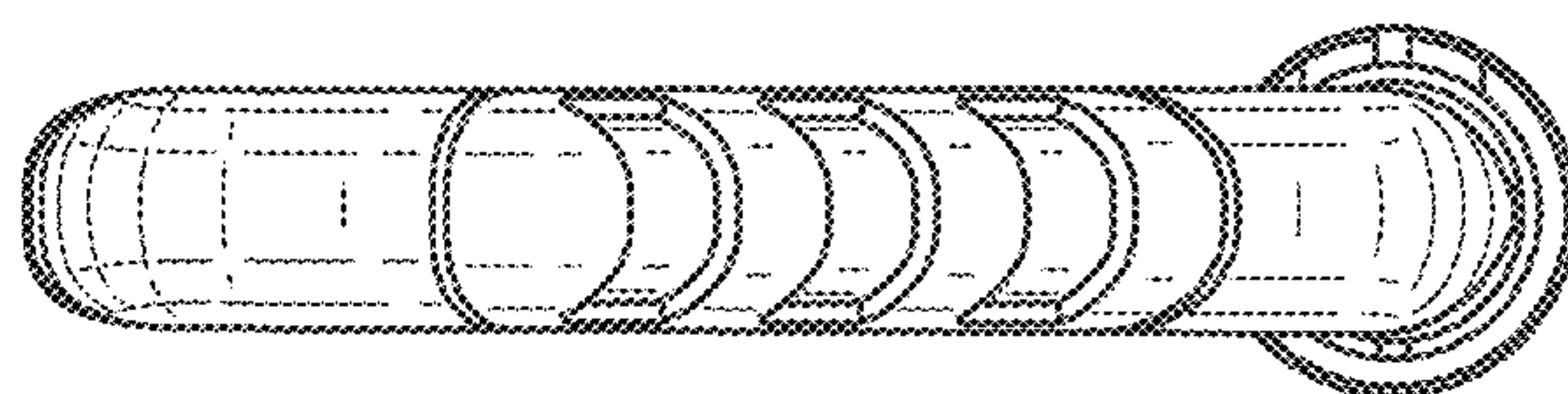


FIG. 7