

(12)

United States Design Patent

Geissele et al.

(10)

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(45)

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(54) **EXTRACTOR**

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

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(52) **U.S. Cl.**
USPC **D22/108**

(58) **Field of Classification Search**
USPC D22/108, 199
CPC F41A 15/14; F41A 15/16
See application file for complete search history.

(56)	References Cited			
	U.S. PATENT DOCUMENTS			
	1,507,900	A *	9/1924	Frommer F41A 15/14 42/25
	2,870,562	A *	1/1959	Kimball F41A 15/14 42/25
	3,021,634	A *	2/1962	Johnson F41A 15/14 42/25
	3,477,162	A *	11/1969	Morse F41A 15/14 42/25
	4,265,043	A *	5/1981	Rowlands F41A 15/14 42/25
	D475,430	S *	6/2003	Wardle D22/108
	7,735,410	B2	6/2010	Clark
	8,966,800	B1	3/2015	Olson
	9,234,713	B1	1/2016	Olson
	9,448,020	B1 *	9/2016	Olson F41A 3/66

9,784,514	B1 *	10/2017	Carr		F41A 15/14
10,215,518	B1 *	2/2019	Kramer		F41A 15/14
D893,658	S *	8/2020	Noonan		D22/108
(Continued)					

FOREIGN PATENT DOCUMENTS					
CH	228000	A	7/1943		
EM	008679872-0001	*	9/2021		
GB	6160802	*	9/2021		

OTHER PUBLICATIONS

Geissele BCG Physical, YouTube-School of the American Rifle. Publication Date: Feb. 20, 2020. Date Accessed: Nov. 21, 2023. Retrieved from YouTube URL: https://www.youtube.com/watch?v=qus09Z_j7m4 (Year: 2020).*

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(57) **CLAIM**

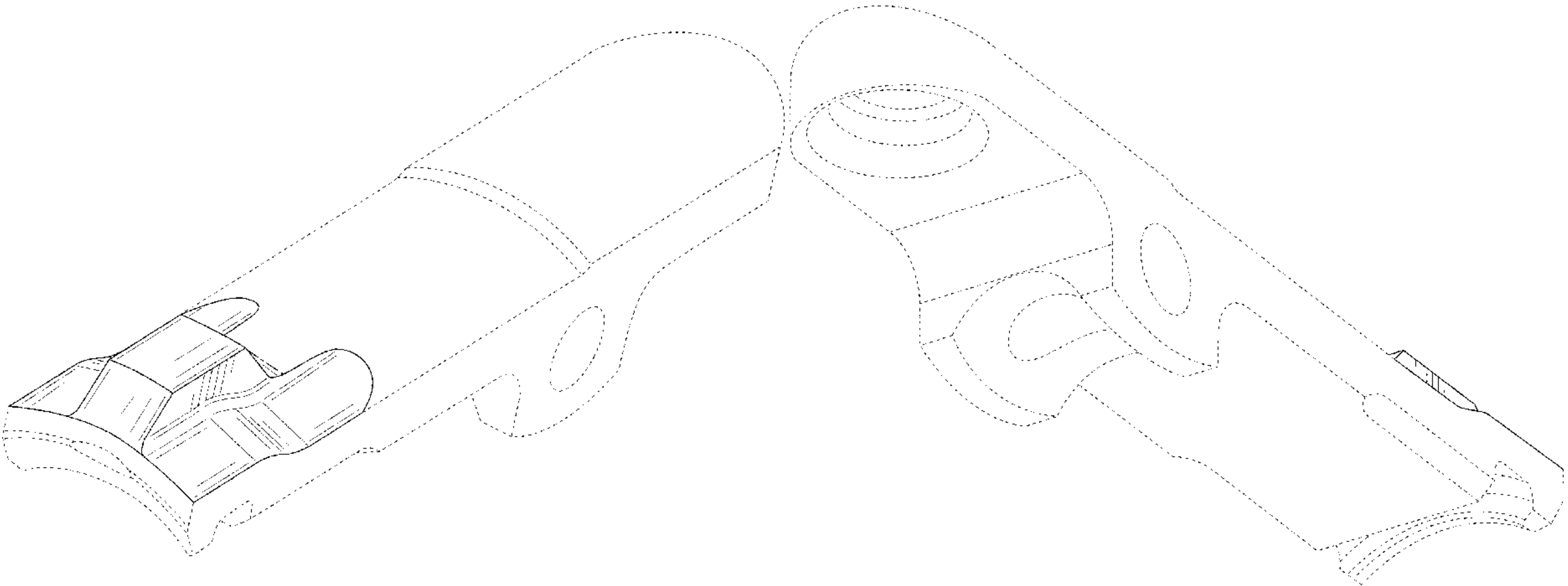
We claim the ornamental design for an extractor, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an extractor showing the new design;
FIG. 2 is another perspective view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is a left side elevation view thereof;
FIG. 7 is a front elevation view thereof; and,
FIG. 8 is a rear elevation view thereof.

The dash-dot-dash broken lines represent bounds of the claimed design and form no part of the claimed design. All other broken lines illustrate features of the extractor that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2006/0185212 A1* 8/2006 Curry F41A 15/14
42/46
2008/0092733 A1 4/2008 Leitner-Wise et al.
2011/0005383 A1 1/2011 Kramer
2012/0180354 A1 7/2012 Sullivan et al.
2012/0255210 A1* 10/2012 Devine F41A 15/16
42/16
2014/0076144 A1 3/2014 Gomez
2014/0090283 A1 4/2014 Gomez
2014/0137454 A1* 5/2014 Lee F41A 15/14
42/25
2015/0330731 A1* 11/2015 Kolev F41A 3/70
42/25
2016/0047612 A1 2/2016 Sullivan et al.
2018/0094889 A1 4/2018 Gomez
2022/0290937 A1* 9/2022 Geissele F41A 15/14
2023/0021598 A1* 1/2023 Santa F41A 15/16
2023/0160651 A1* 5/2023 Mortsch F41A 15/14
42/25

OTHER PUBLICATIONS

BCG Autopsy, YouTube-School of the American Rifle. Publication Date: Nov. 21, 2021. Date Accessed: Nov. 21, 2023. Retrieved from YouTube URL: <https://www.youtube.com/watch?v=OHbJovLMuZk> (Year: 2021).*

Extended European Search Report for EP Application No. 22203668.3 dated Mar. 13, 2023 (11 pages).

RWA Range Warrior Accessories 2020 [online] retrieved from Internet Apr. 7, 2021] <URL: <https://www.rangewarrioraccessories.com/product/extractor-for-ar15-7-62x39/>> (3 pages).

Extractor Cartridge for Windham Weaponry 7.62×39mm, [online] retrieved from Internet Apr. 7, 2021 <URL: <https://shop.windhamweaponry.com/product/8448512-762x39/>> (7 pages).

Lone Star Armory, Tactical Springs 5-Coil Extra Power Extractor Spring [online] retrieved from Internet Feb. 9, 2021 <URL: <https://www.lonestararmory.us/shop/firearm-components/semi-auto-components/ar-15-components/ar-15-upper-components/ar-15-bcg-parts/tactical-springs-5-coil-extra-power-extractor-spring/>> (1 page).

SSK Firearms, Extractor, AR15, 7.62×39, Nickel Boron, [online] retrieved from the Internet Apr. 7, 2021 <URL: https://sskfirearms.lehighdefense.com/index.php?route=product/product&product_id=341> (4 pages).

Lexar 15-223-Nibo-2048×2048 [online] retrieved from Internet Feb. 9, 2021 <URL: <https://sskfirearms.lehighdefense.com/image/cache/catalog/LEXAR15-223-Nibo-2048x2048.jpg>> (1 page).

BRA Black Rifle Arms, Small Arms Innovation, 6.5 Grendel, Extractor, Replacement Extractor [online] retrieved from Internet on Apr. 7, 2021 <URL: https://www.blackriflearms.com/-65-Grendel-Extractor-p_297.html> (5 pages).

River’s Bend Gun Co., Badger Ordnance M-16 style Extractor (part and labor) [online] retrieved from Internet Apr. 7, 2021 <URL: <http://www.riversbendguncompany.com/products-and-services/badger-ordnance-m-16-style-cartridge-extractor>> (2 pages).

River’s Bend Gun Co., Badger Ordnance M-16 style Extractor [online] retrieved from Internet Apr. 26, 2021 <URL: https://images.squarespace-cdn.com/content/v1/54c55d5fe4b0688a8824d50a/1428955543167-ZFTJV0JJDFPON3GM305D/ke17ZwdGBToddI8pDm48kEdBr4U_FUuP4vm1AkpIPpVZw-zPPgd n4jUwVcJE1ZvWEtT5uBSRWt4vQZAgTJucoTqqXjS3CfNDSuuf31e0tVHxeek2D9gCIVwaTw-m9a8WSnF1MATqOTQWkHE281RIh3z8U21D8d0nsPxvoK4Fvw/306-90_91_92+badger+extractor.jpg> (1 page).

Adelmann, <https://www.shootingillustrated.com/content/ar-15-inspection-15-wear-failure-points-to-check/> Sep. 8, 2018 (Year: 2018) (9 pages) [retrieved from Internet Dec. 30, 2022].

BRD, <https://brdgunworks.com/2021/02/08/ar-15-extraction-and-ejection-tips-and-tricks/> Feb. 8, 2021 (Year: 2021) (20 pages) [retrieved from Internet Dec. 30, 2022].

NLX, <https://web.archive.org/web/20200919095729/https://nextlevelarms.com/product/nix-556-bolt/> Sep. 19, 2020 (Year: 2020) (3 pages) [retrieved from Internet Dec. 23, 2022].

* cited by examiner

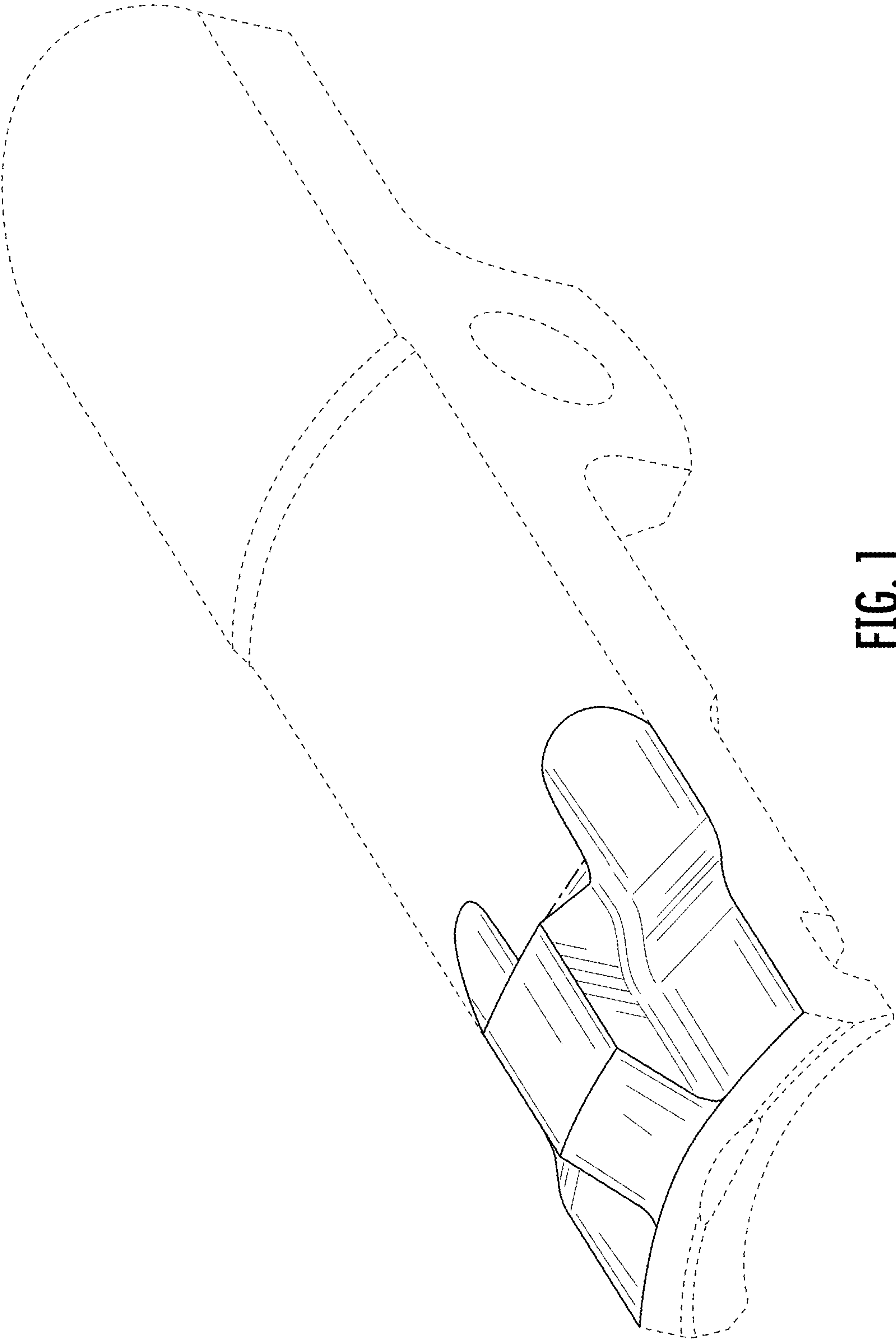


FIG. 1

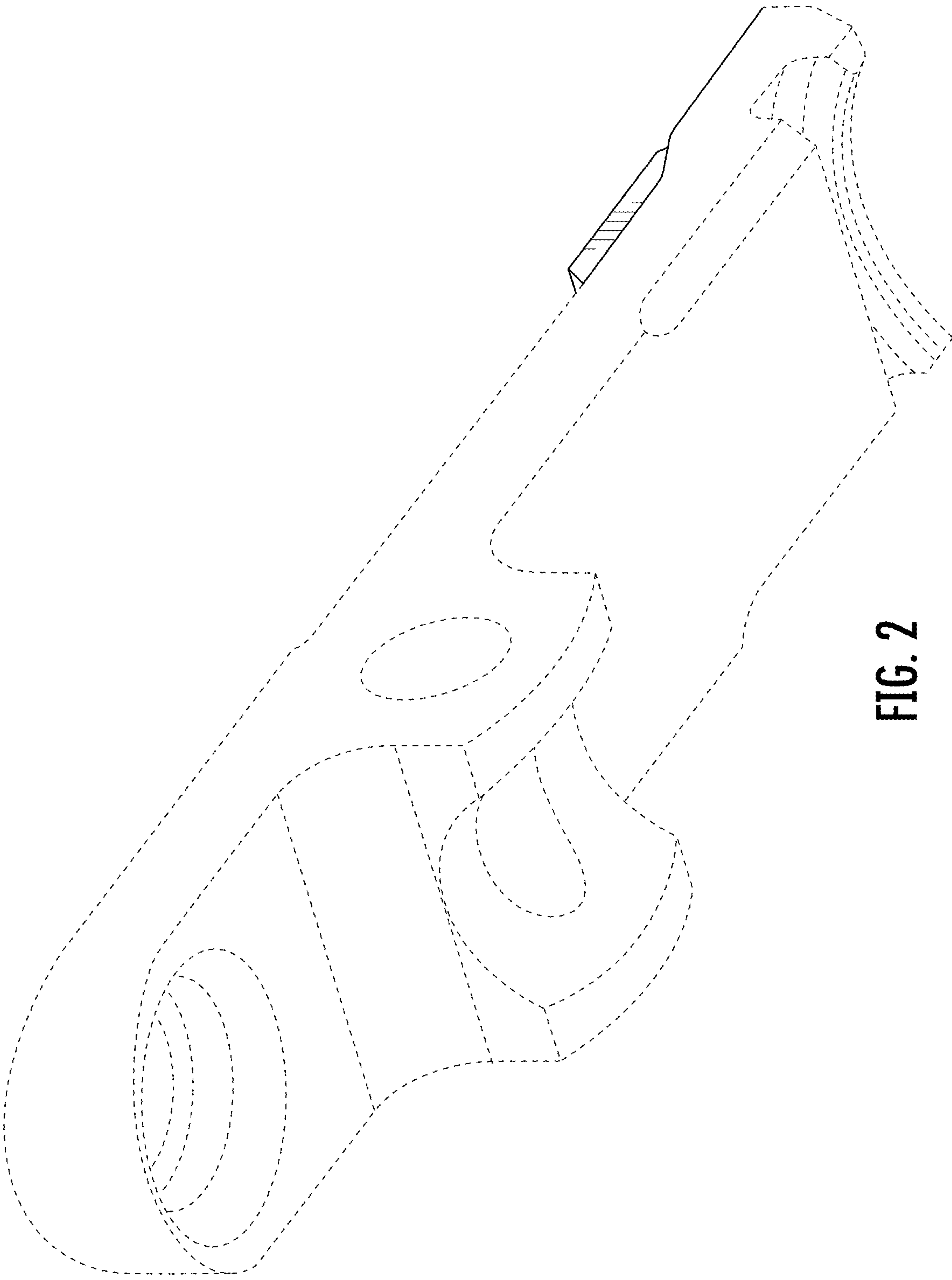


FIG. 2

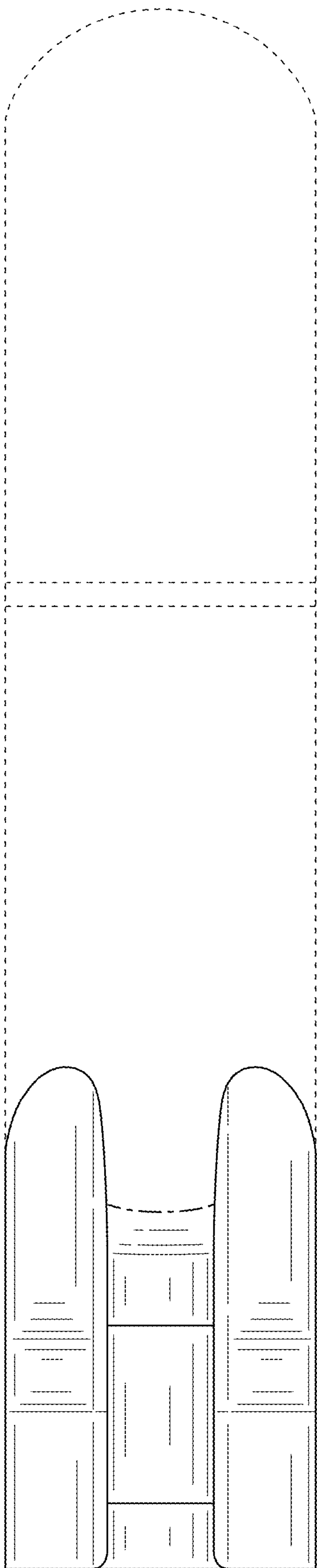


FIG. 3

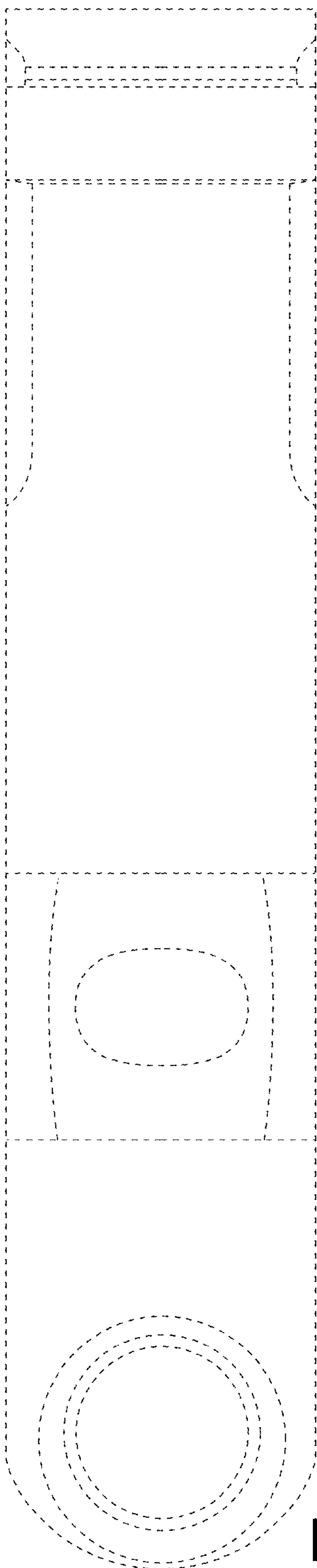


FIG. 4

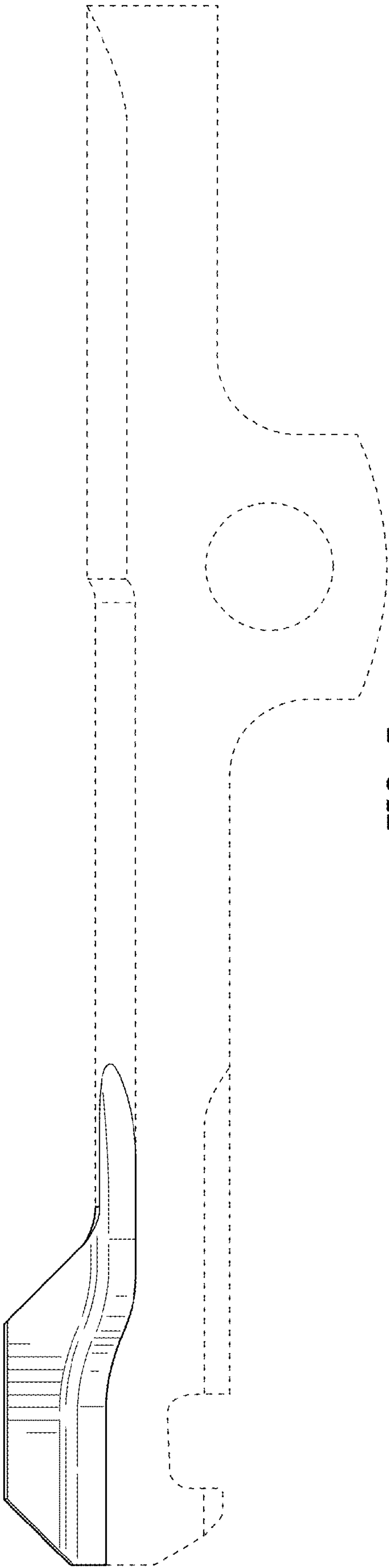


FIG. 5

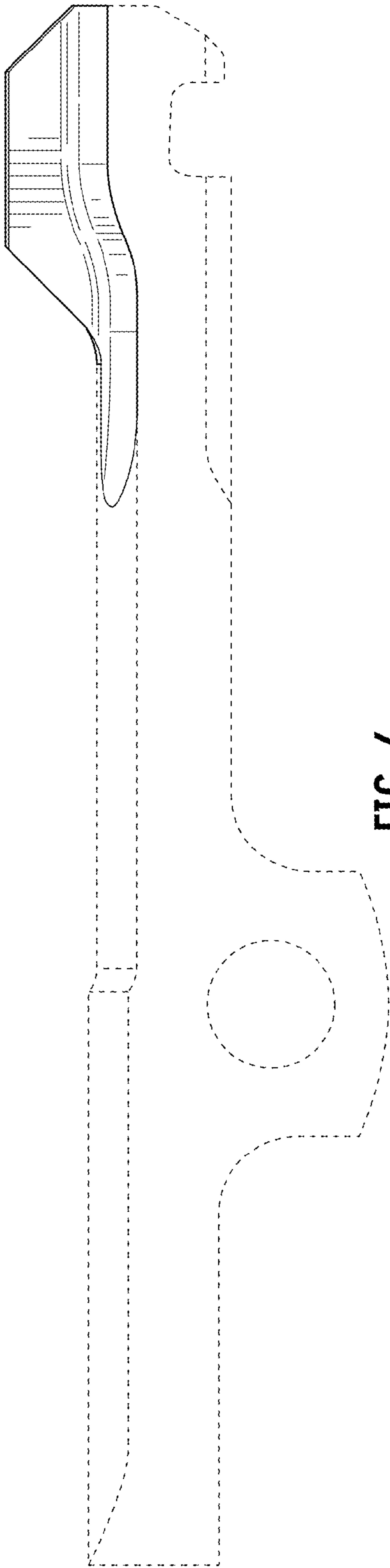


FIG. 6

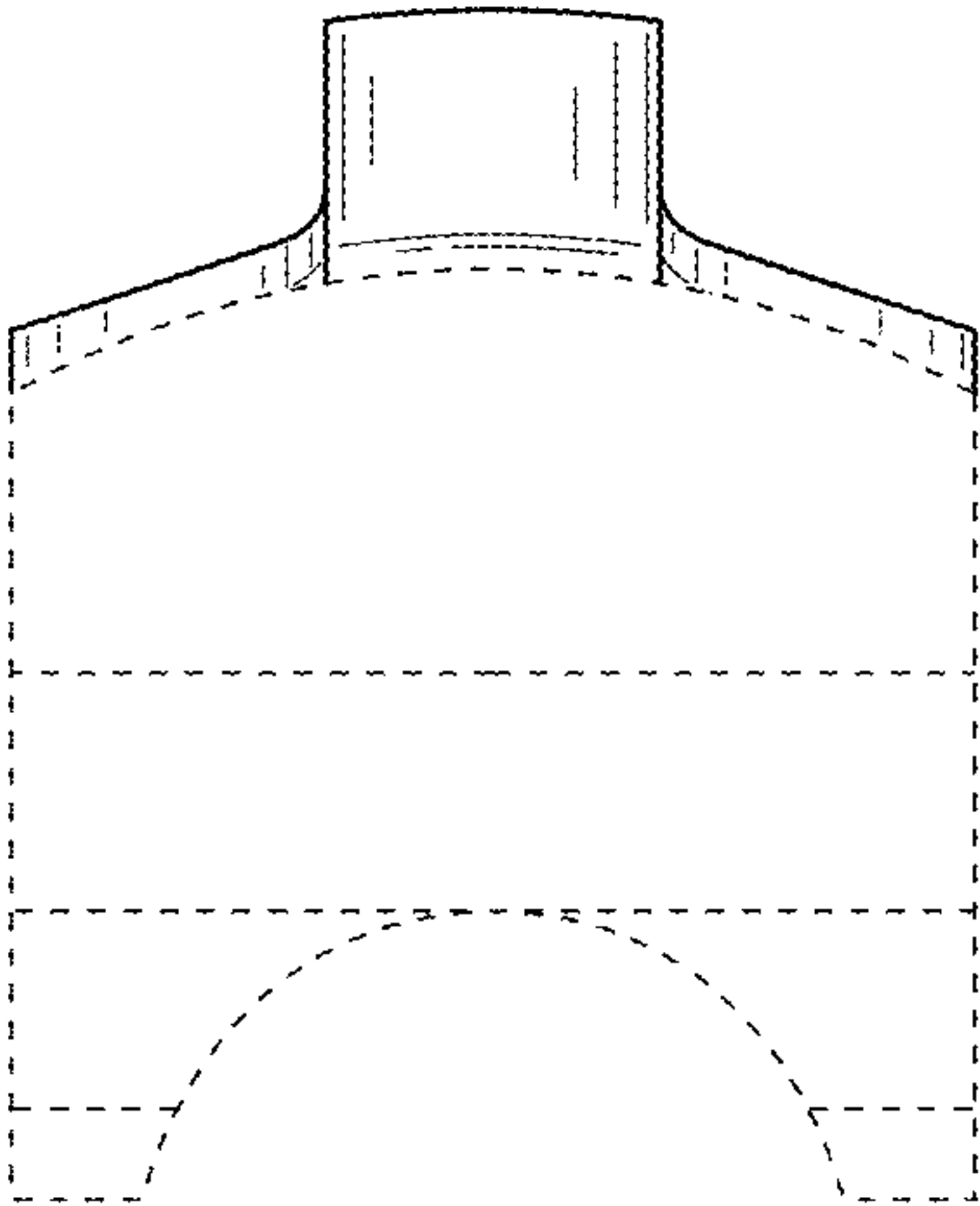


FIG. 7

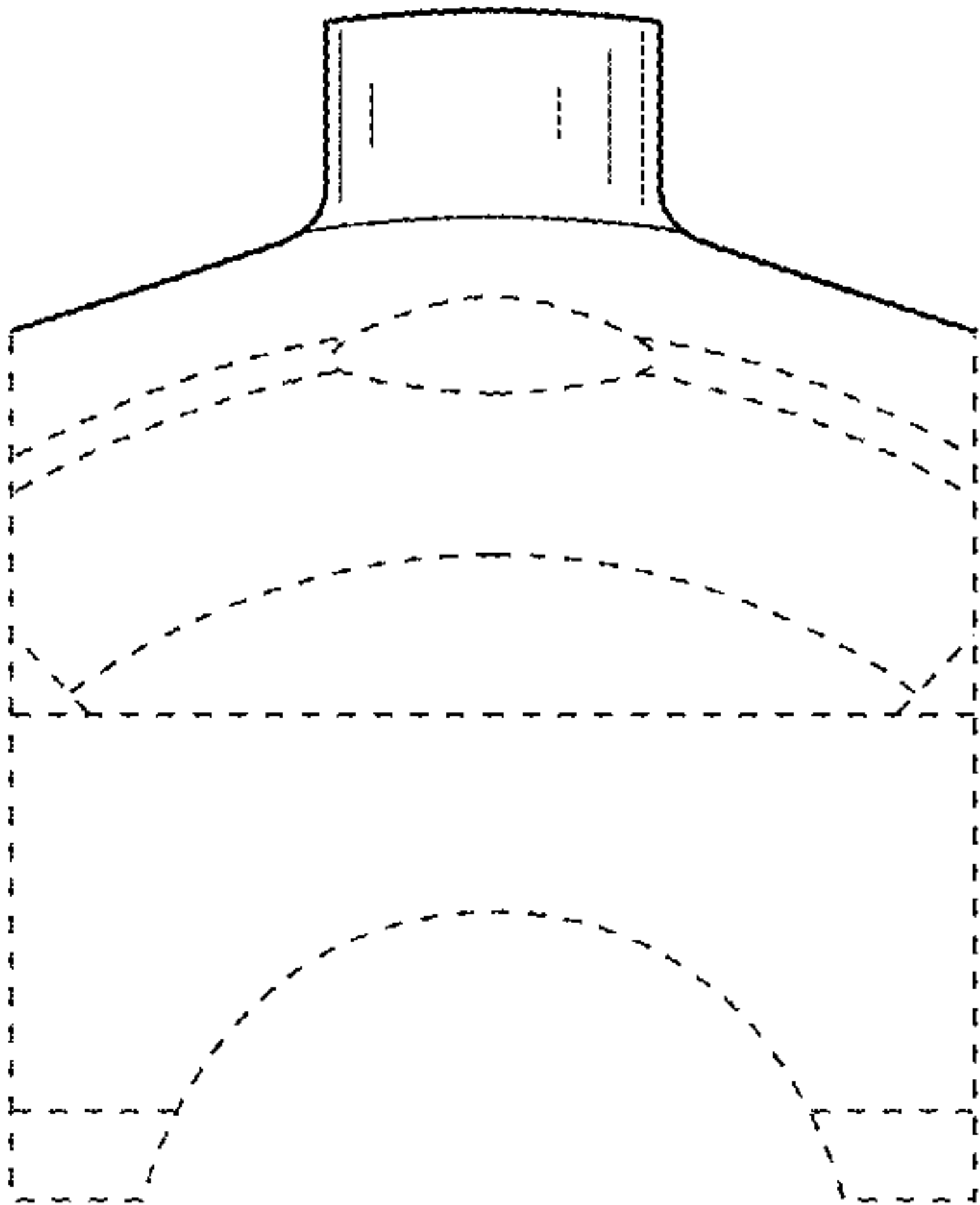


FIG. 8