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(54) LOCKING RING

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USPC

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CPC F16B 21/18; F16B 21/183; F16B 21/186
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

2,544,631	A *	3/1951	Brozek	F16B 21/18 411/518
2,574,034	A *	11/1951	Heimann	F16B 21/18 411/521
2,595,787	A *	5/1952	Heimann	F16B 21/18 24/16 R
2,811,889	A *	11/1957	Wurzel	F16B 21/183 24/1
2,895,754	A *	7/1959	Wurzel	F16B 21/186 403/316
3,371,401	A *	3/1968	Deguy	B25B 27/205 29/229
3,469,494	A *	9/1969	Frailly	F16B 21/183 411/517

3,535,977	A *	10/1970	Baumgarten	F16B 21/183 411/517
4,687,399	A *	8/1987	Petrie	B65G 47/256 403/326
5,934,854	A *	8/1999	Krautkremer	B23P 19/084 411/518
D600,534	S *	9/2009	Tokumoto	D8/354
D690,191	S *	9/2013	Takakuwa	D8/396
D735,568	S *	8/2015	Barnett	D8/396
9,551,372	B2 *	1/2017	Gutscher	F16B 21/186
D863,938	S *	10/2019	Boyle	D8/356
10,612,375	B2 *	4/2020	Sollami	E21C 35/188

(Continued)

OTHER PUBLICATIONS

“Rotor Clip Standard Retaining Ring”, Dec. 15, 2011, Amazon.com, site visited Oct. 6, 2021: <https://www.amazon.com/Standard-External-Retaining-Stainless-Passivated/dp/B0062O2GUU?th> (Year: 2011).*

(Continued)

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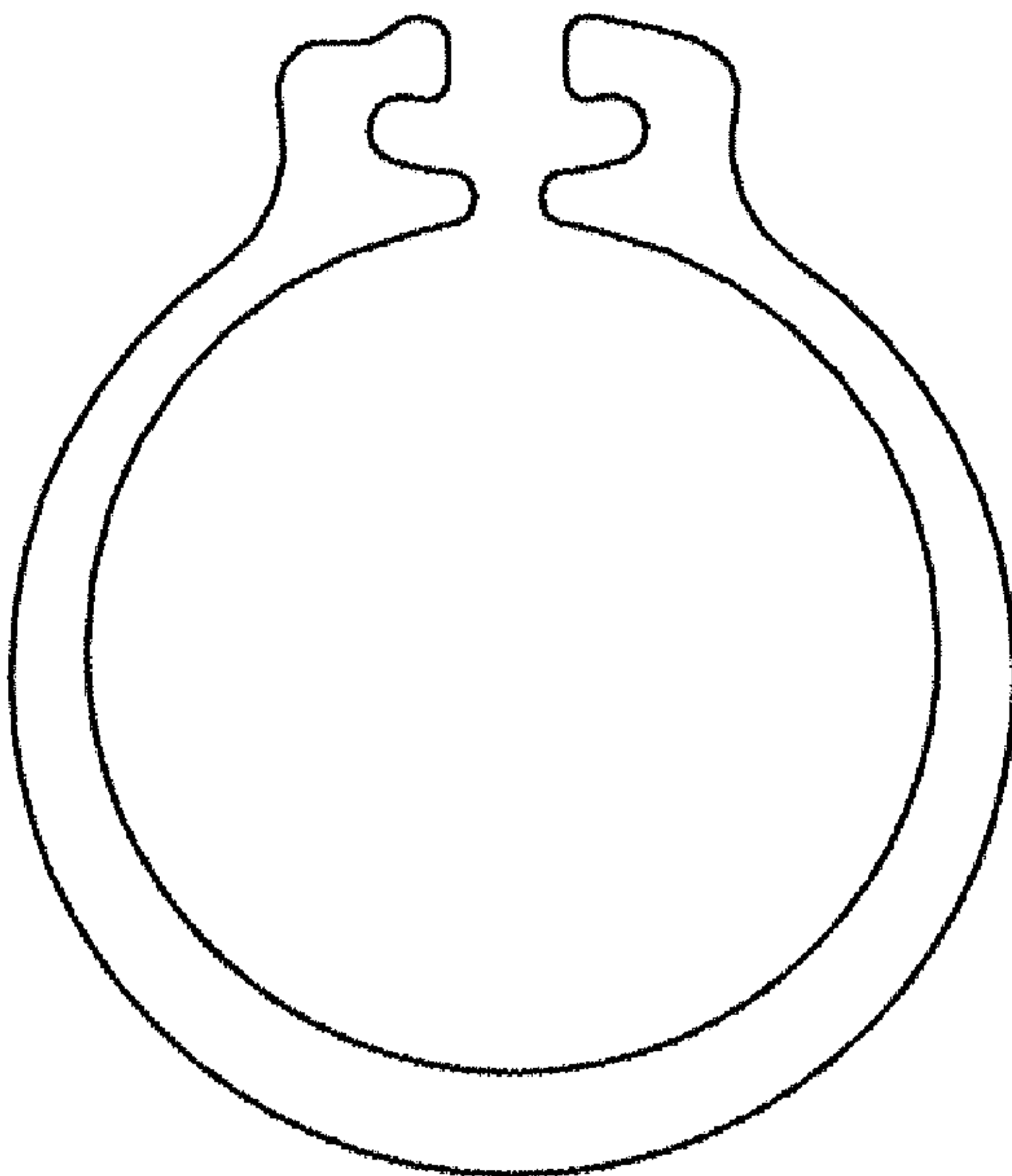
(57) CLAIM

The ornamental design for a locking ring, as shown and described.

DESCRIPTION

FIG. 1 is a top plan view of the locking ring showing the new design;
FIG. 2 is a bottom plan view of the locking ring of FIG. 1;
FIG. 3 is a front plan view of the locking ring of FIG. 1;
FIG. 4 is a rear plan view of the locking ring of FIG. 1;
FIG. 5 is a side plan view of the locking ring of FIG. 1; and,
FIG. 6 is an opposite side plan view of the locking ring of FIG. 1.

1 Claim, 1 Drawing Sheet



(56) **References Cited**

U.S. PATENT DOCUMENTS

D901,284 S * 11/2020 Chorley D8/394
2005/0214101 A1 * 9/2005 Dexter F16B 21/18
411/518

OTHER PUBLICATIONS

“Franke Circlip Ring”, Sep. 1, 2017, Amazon.com, site visited Oct. 6, 2021: <https://www.amazon.com/Franke-Foodservice-Systems-1553790-CIRCLIP/dp/B016EE78FA> (Year: 2017).*

“1.56 External Retaining Ring”, Feb. 20, 2016, Ebay.com, site visited Oct. 6, 2021: <https://www.ebay.com/itm/151625727139> (Year: 2016).*

“Hollow Circlips Industries Grip Ring”, Sep. 6, 2017, HollowCirclips.com, site visited Oct. 6, 2021: <https://web.archive.org/web/20170906094735/http://www.hollowcirclips.com/Grip-Ring-for-Shaft-without-Groove.htm> (Year: 2017).*

“G.L. Huyett Retaining Rings”, 2017, Huylett.com, site visited Oct. 6, 2021: <https://glhblob1.blob.core.windows.net/images/CatalogPages/Retaining-Rings/GLHuyett-RetainingRings-2017-secured.pdf> via <https://www.huyett.com/knowledgevault/catalogs-resources#rings> (Year: 2017).*

“Smalley Snap Rings”, Jan. 5, 2005, Smalley.com, site visited Oct. 6, 2021: <https://www.smalley.com/article/eaton-style-snap-rings> (Year: 2005).*

“Standard Internal Retaining Ring”, Jan. 5, 2011, Amazon.com, site visited Oct. 6, 2021: <https://www.amazon.com/Standard-Internal-Retaining-Stainless-Passivated/dp/B006T5KN1Q> (Year: 2011).*

“Arcon Retaining Rings”, Jul. 1, 2015, ArconRings.com, site visited Oct. 6, 2021: <https://web.archive.org/web/20150701054745/https://www.arconring.com/wp-content/uploads/2014/11/arconcatalog.pdf> (Year: 2015).*

* cited by examiner

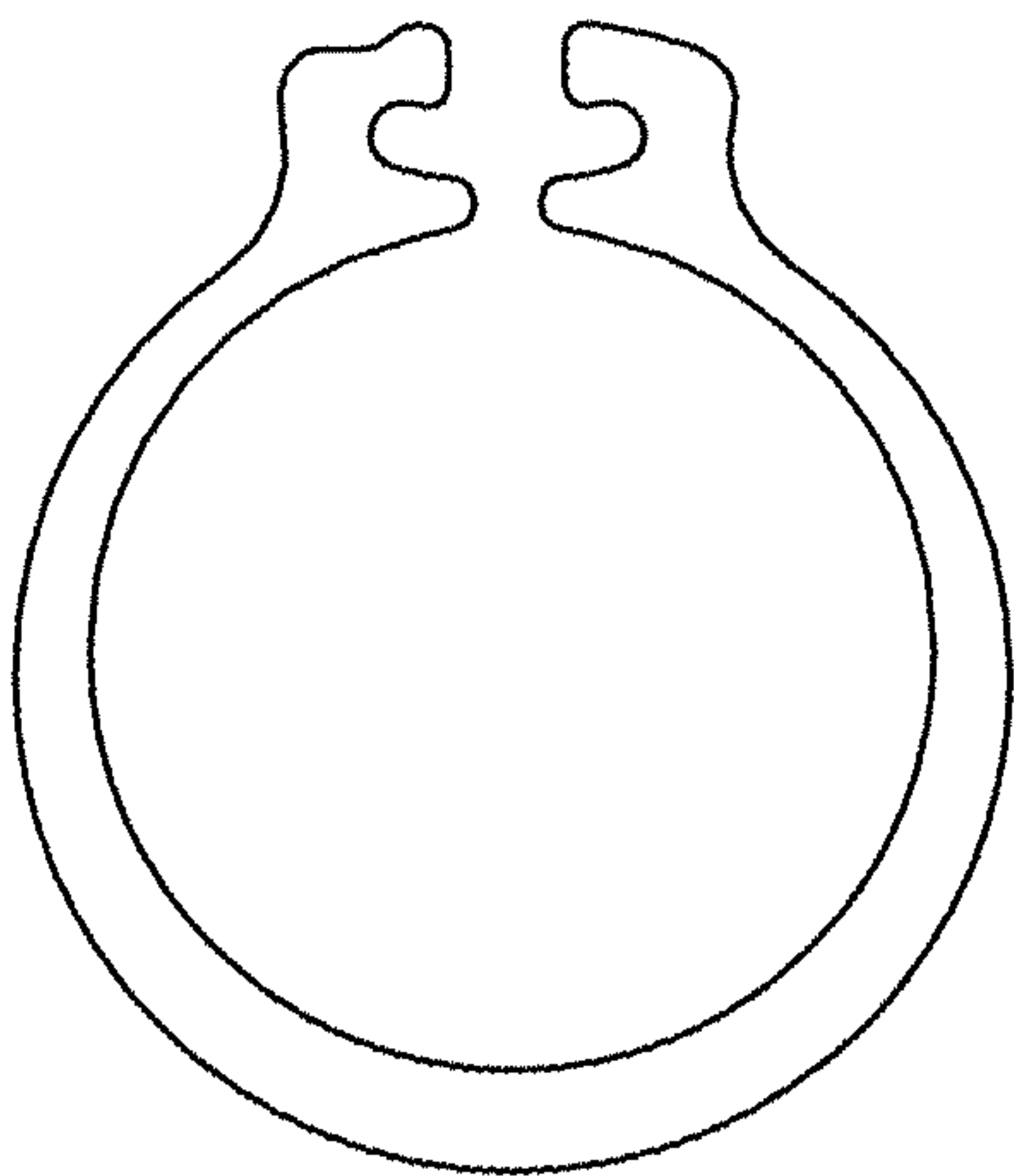


FIG. 1

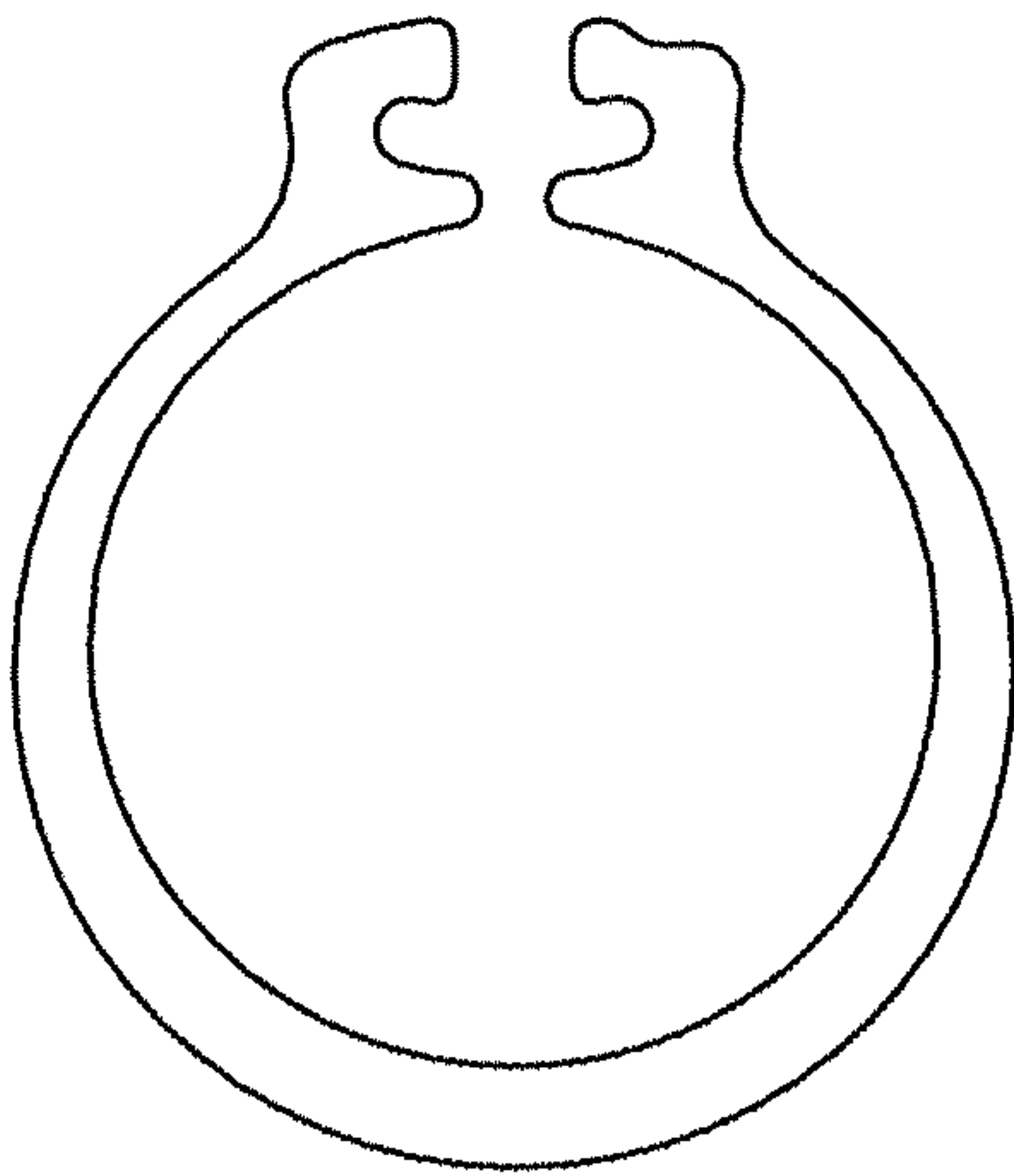


FIG. 2



FIG. 3

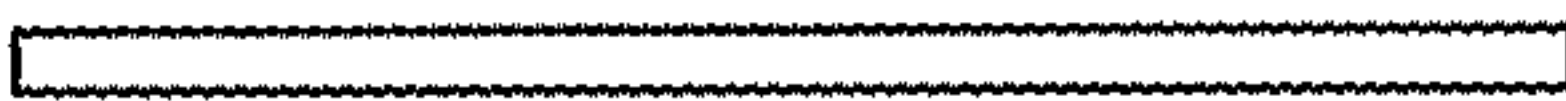


FIG. 4



FIG. 5



FIG. 6