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

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(54) **START BUTTON FOR CONSTRUCTION MACHINERY**

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

(52) **U.S. Cl.**
USPC **D13/171; D12/177; D12/192**

(58) **Field of Classification Search**
USPC D13/158, 162, 171, 174; D12/177, 192
CPC .. H01H 3/12; H01H 9/02; H01H 9/16; H01H 9/18; H01H 9/181; H01H 9/182; H01H 13/04; H01H 13/14; H01H 13/70; H01H 13/76; H01H 13/83; H01H 2009/187; H05B 39/02; H05B 39/04; H05B 39/086; H05B 39/088; G07C 9/00174; G07C 9/00182; G07C 9/00309; G07C 2009/00214; G07C 2009/00222; G07C 2009/00301

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,087,605 A * 7/2000 Heidenfels H01H 13/14
200/341
6,107,583 A * 8/2000 Berfield H01H 23/143
200/302.2

D442,921 S * 5/2001 Bonn D13/174
D568,219 S * 5/2008 Schowalter D12/192
8,203,093 B2 * 6/2012 Wang H01H 13/705
200/341
D714,233 S * 9/2014 Dorn D13/174
D729,179 S * 5/2015 Cheung D13/171
9,804,632 B2 * 10/2017 Gassner G05G 1/02
D873,747 S * 1/2020 Miyamoto D12/192
2010/0116629 A1 * 5/2010 Borissov H01H 25/008
200/4
2011/0018684 A1 * 1/2011 Wang G07C 9/00309
340/5.62

(Continued)

OTHER PUBLICATIONS

iJDMTOY Set of Anodized Blue Aluminum Keyless Engine Push Start Button, Jan. 13, 2020; 1 pg. <https://www.amazon.in/iJDMTOY-Anodized-Surrounding-Ring-Compatible/dp/B07SKLXF8D>.*

(Continued)

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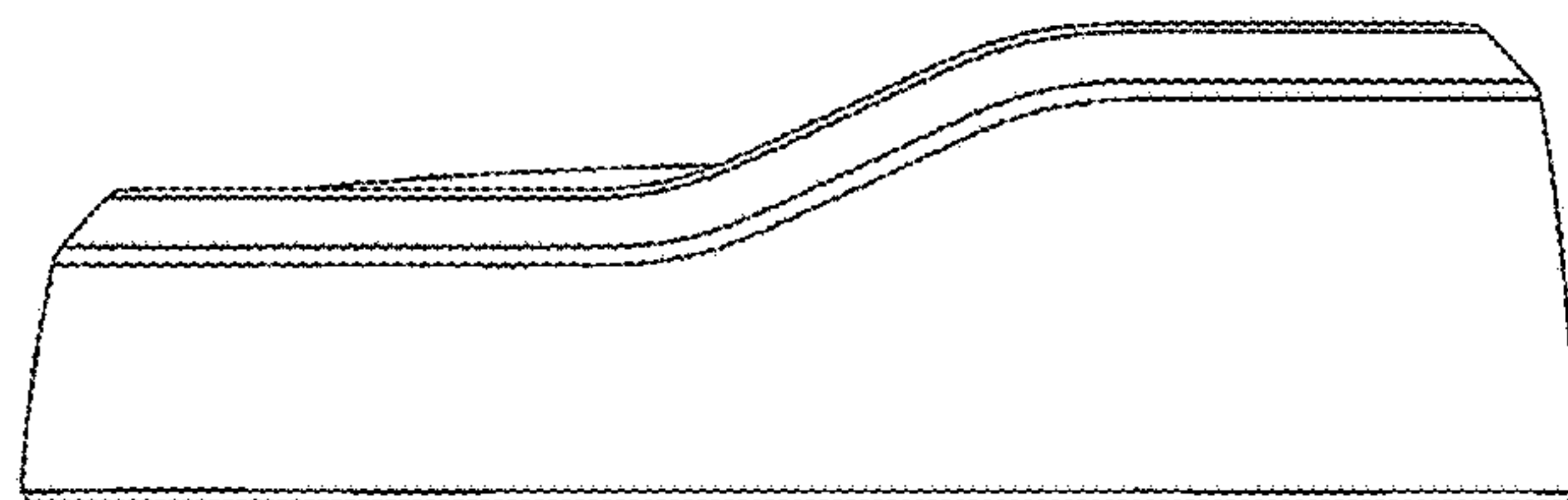
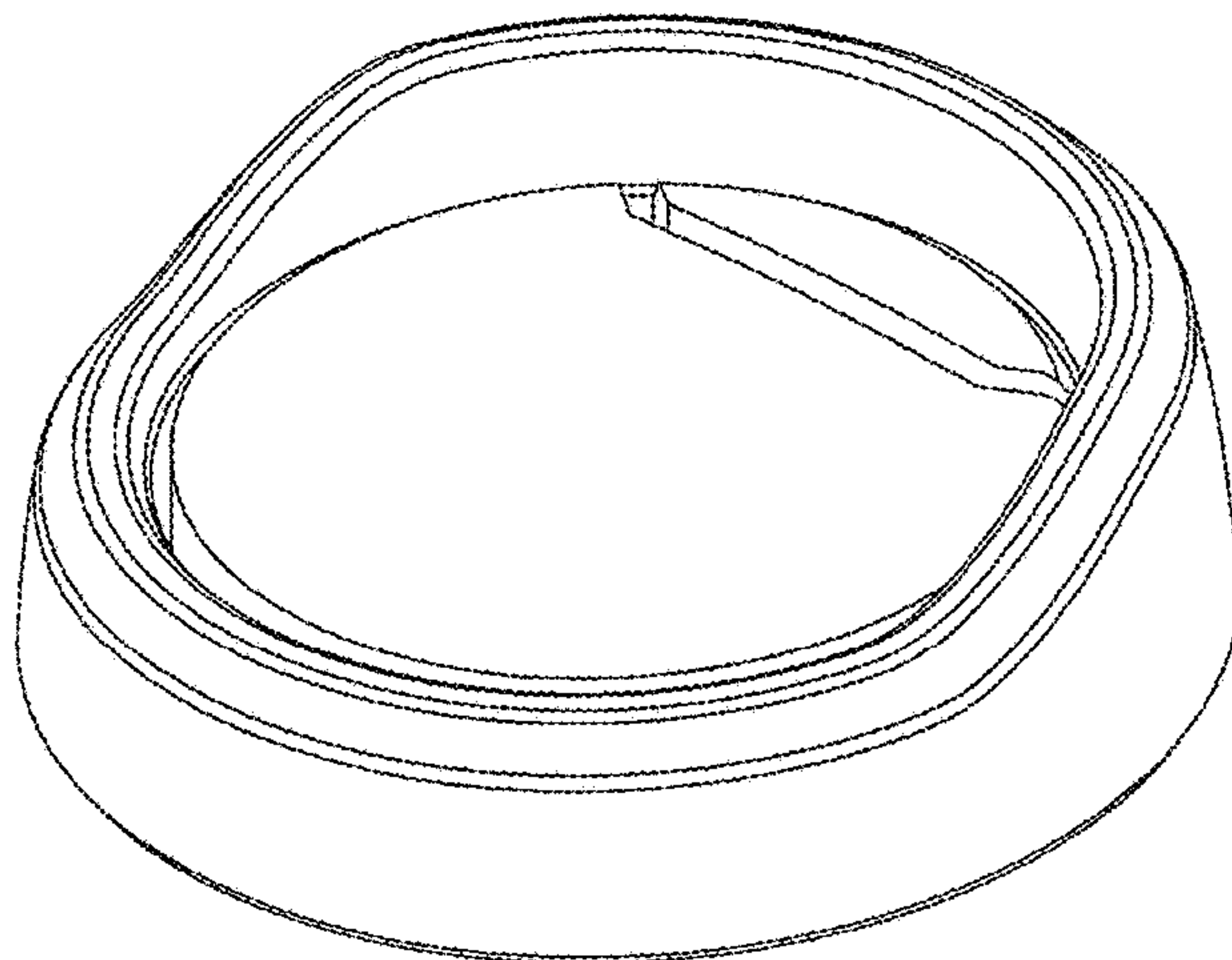
(57) **CLAIM**

The ornamental design for a start button for construction machinery, as shown and described herein.

DESCRIPTION

FIG. 1 is a perspective view of a start button for construction machinery showing the new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a left-side view thereof; FIG. 5 is a right-side view thereof; FIG. 6 is a top view thereof; and, FIG. 7 is a bottom view thereof.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2011/0108403 A1* 5/2011 Kukita H01H 13/28
200/341
2011/0208413 A1* 8/2011 Ko B60R 25/24
701/113
2014/0262712 A1* 9/2014 Chu H01H 13/14
200/302.2
2018/0130617 A1* 5/2018 Wu H01H 9/285
2019/0221378 A1* 7/2019 Lin H01H 13/14
2019/0239565 A1* 8/2019 Qiu H02J 7/0042

OTHER PUBLICATIONS

Engine start stop button in modern car interior; Oct. 11, 2018; 3 pgs.
<https://photodune.net/item/engine-start-stop-button-in-modern-car-interior/22710769>.*

2013-bmw-m5-engine-start-stop-button;02013; 1 pg.; <http://petrolsmell.com/2014/04/22/bmw-innovation-start-stop/2013-bmw-m5-engine-start-stop-button-photo-457625-s-1280x782/>.*

Engine Start Stop Button; visited site on Apr. 20, 2021; 1 pg.
<https://www.shutterstock.com/video/clip-10184960-engine-start-stop-button-modern-car-interior>.*

* cited by examiner

FIG. 1

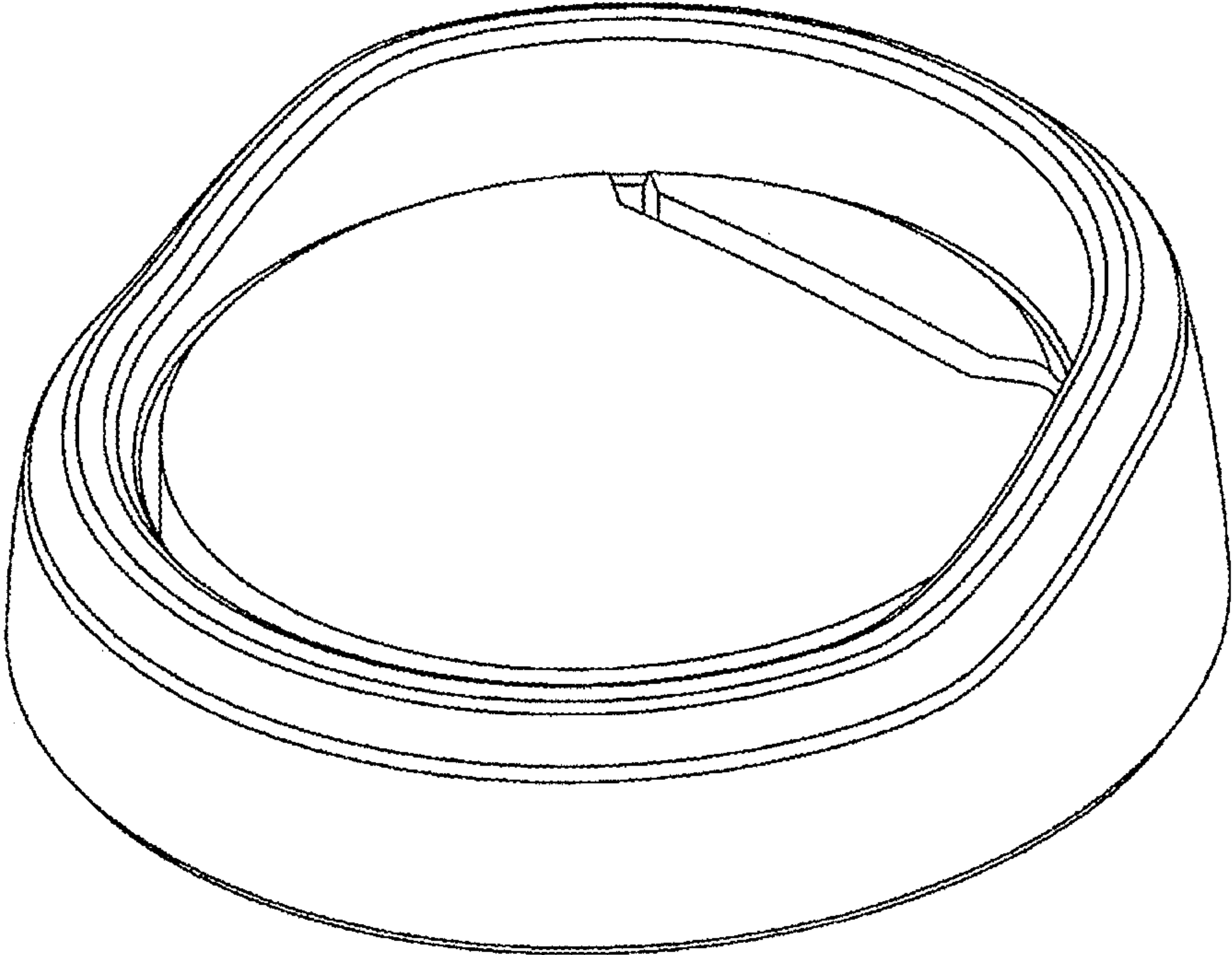


FIG. 2

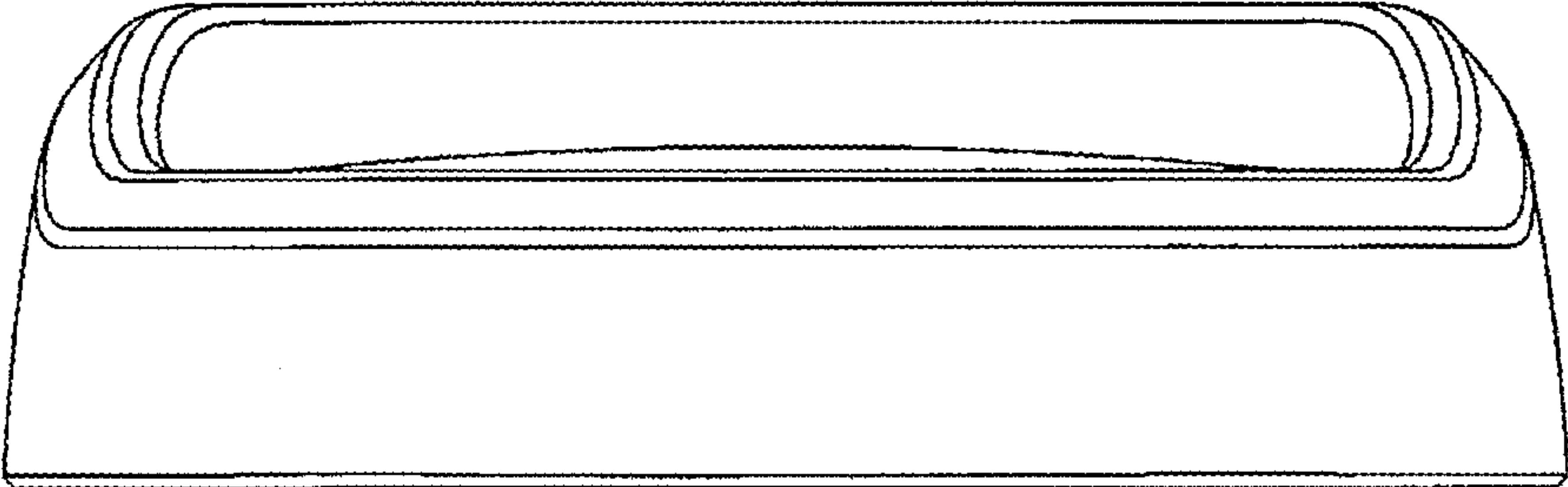


FIG. 3

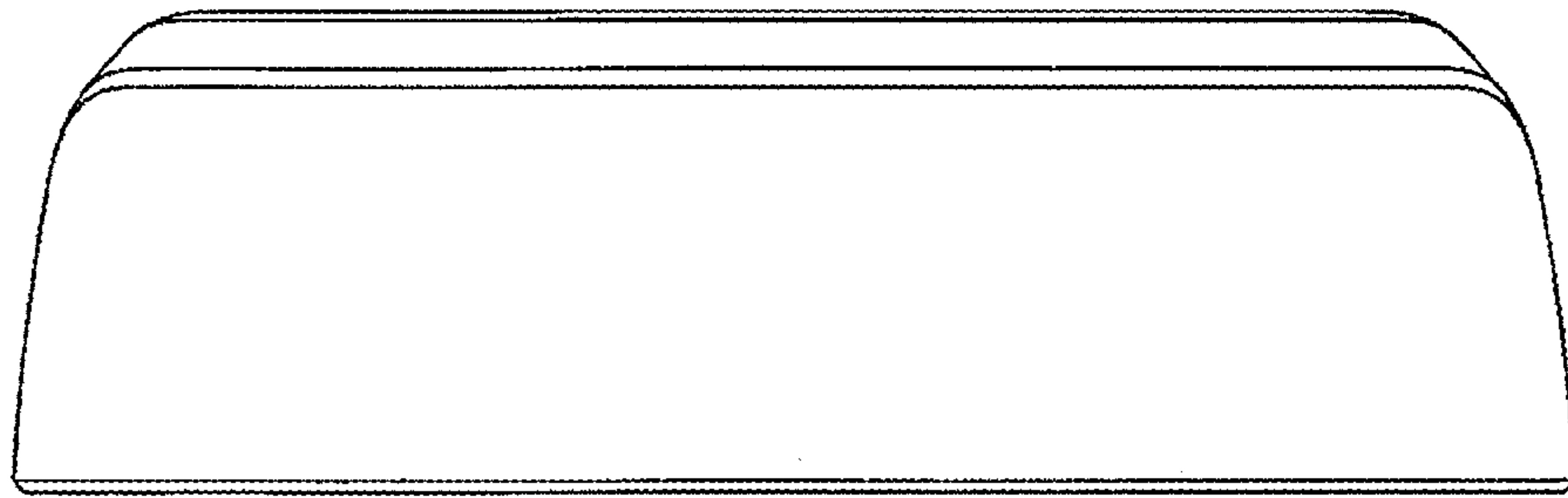


FIG. 4

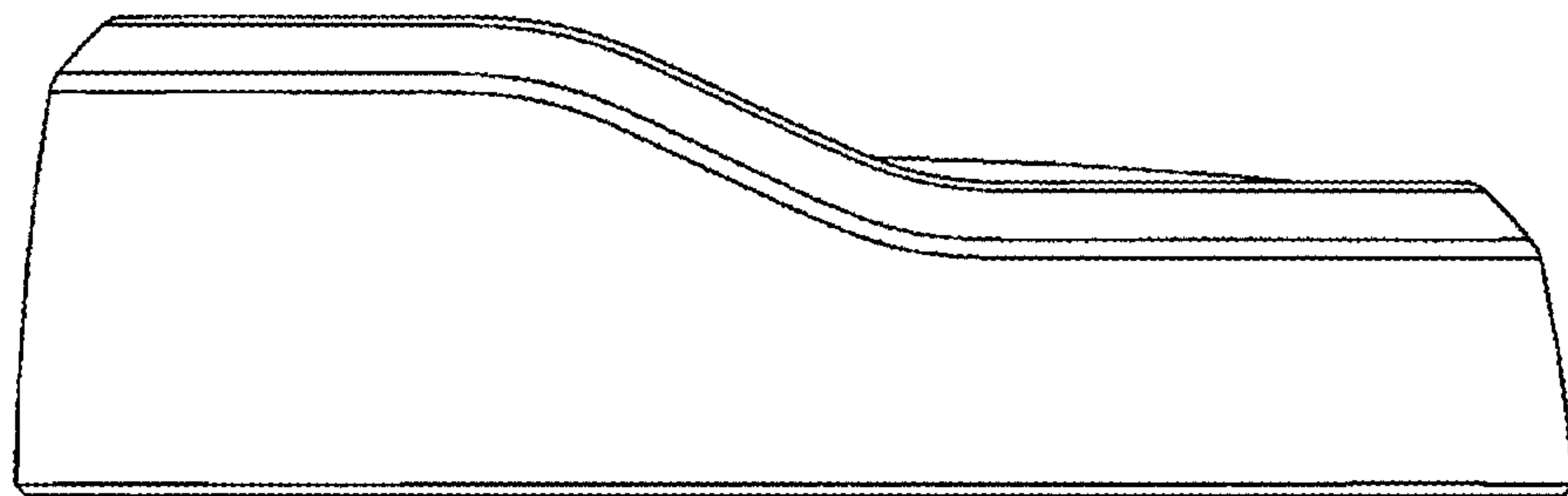


FIG. 5

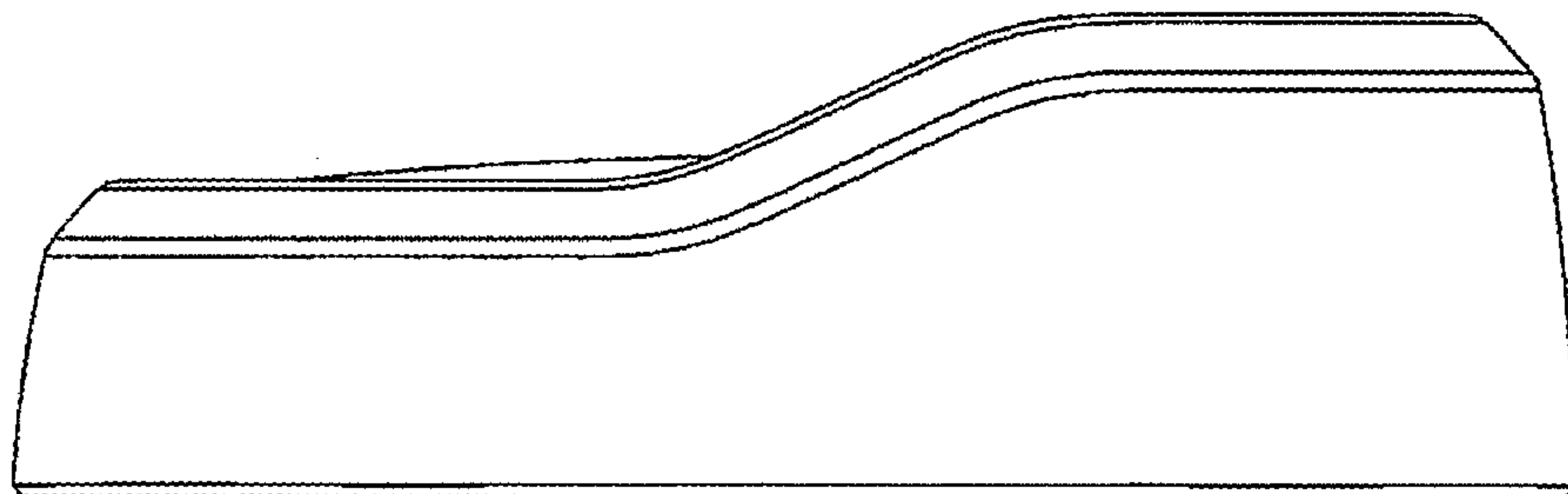


FIG. 6

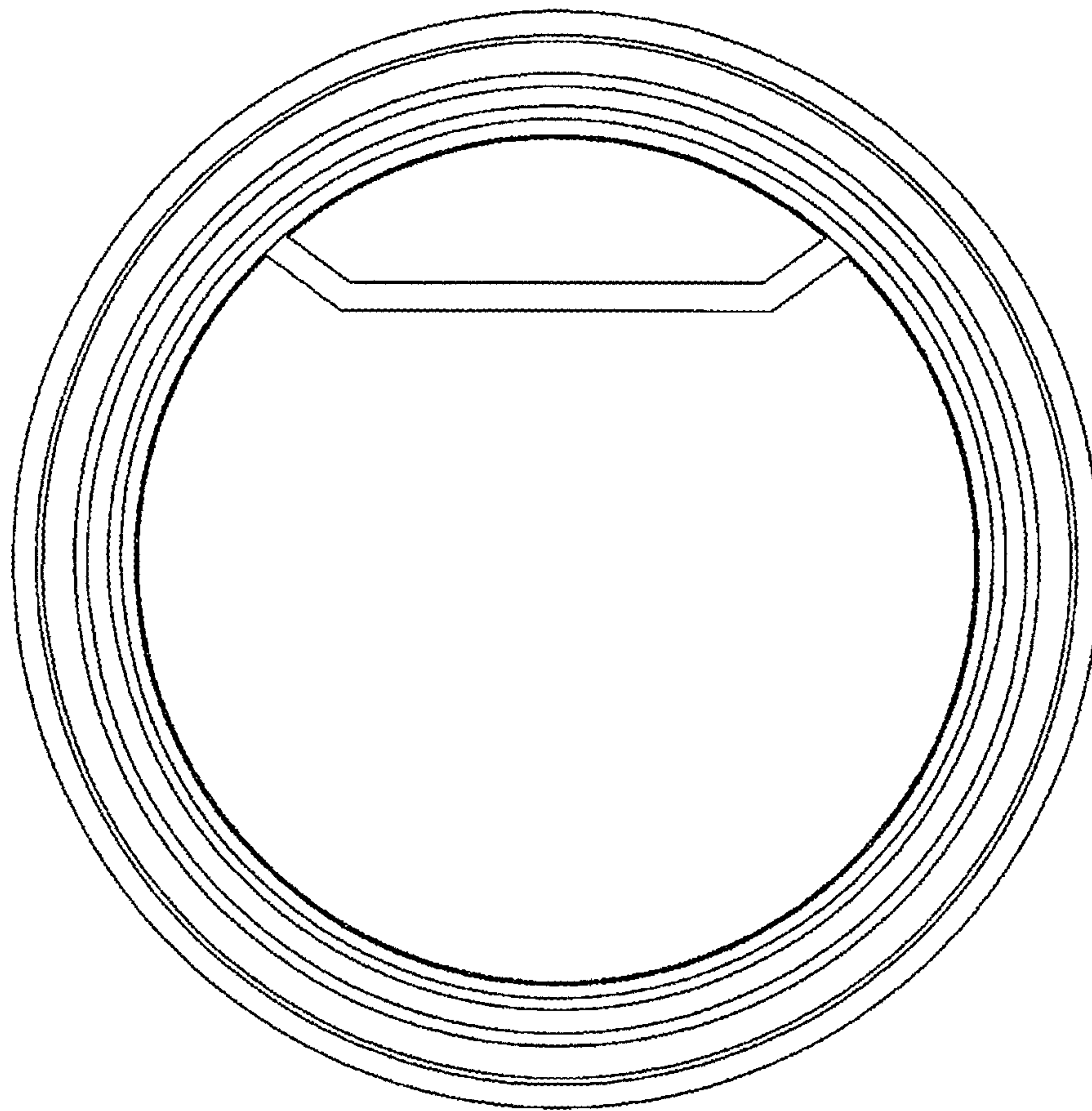


FIG. 7

