



US00D800544S

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

(10) **Patent No.:** **US D800,544 S**

(45) **Date of Patent:** **** Oct. 24, 2017**

- (54) **TRI-DRIVE NUT**
- (71) Applicant: **Unirac Inc.**, Albuquerque, NM (US)
- (72) Inventors: **Nathan Schuit**, Edgewood, NM (US);
Jason Mayfield, Albuquerque, NM (US)
- (73) Assignee: **Unirac Inc.**, Albuquerque, NM (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/571,438**
- (22) Filed: **Jul. 18, 2016**

- 4,436,005 A * 3/1984 Hanson B25B 13/481
81/177.75
- D276,879 S * 12/1984 Bell D8/70
- 4,822,223 A * 4/1989 Williams F16B 37/122
403/268
- D311,131 S * 10/1990 Saito D8/397
- 5,728,136 A * 3/1998 Thal A61B 17/0401
606/232
- 5,927,921 A * 7/1999 Hukari F16B 31/06
411/186
- D416,192 S * 11/1999 Tu D8/397
- 6,220,804 B1 * 4/2001 Pamer F16B 37/068
29/432.2
- 6,361,258 B1 * 3/2002 Heesch F16B 23/0084
411/178

(Continued)

Related U.S. Application Data

- (63) Continuation of application No. 15/138,030, filed on Apr. 25, 2016.
- (51) **LOC (10) Cl.** **08-08**
- (52) **U.S. Cl.**
USPC **D8/397**
- (58) **Field of Classification Search**
USPC D8/397, 394, 382, 349; 411/427
CPC A61B 17/0401; E04D 13/1476; E04G
25/065; F16B 41/002; F16B 23/0061
See application file for complete search history.

References Cited

U.S. PATENT DOCUMENTS

- D30,898 S * 5/1899 Paine 411/427
- 3,042,068 A * 7/1962 Smith F16K 1/422
137/315.05
- 3,269,228 A * 8/1966 Mack B25B 13/06
81/177.6
- D233,138 S * 10/1974 Vogel 215/200
- 4,134,438 A * 1/1979 Frieberg F16B 39/24
411/163
- 4,207,938 A * 6/1980 Mortus F16B 39/284
411/281

FOREIGN PATENT DOCUMENTS

- JP 2000-345664 A 12/2000

OTHER PUBLICATIONS

U.S. Appl. No. 15/138,018, "Height Adjustable Solar Panel Mounting Assembly", filed Apr. 25, 2016, Inventor Nathan Schuit et al.

(Continued)

Primary Examiner — Cynthia Underwood
(74) *Attorney, Agent, or Firm* — Crowell & Moring LLP

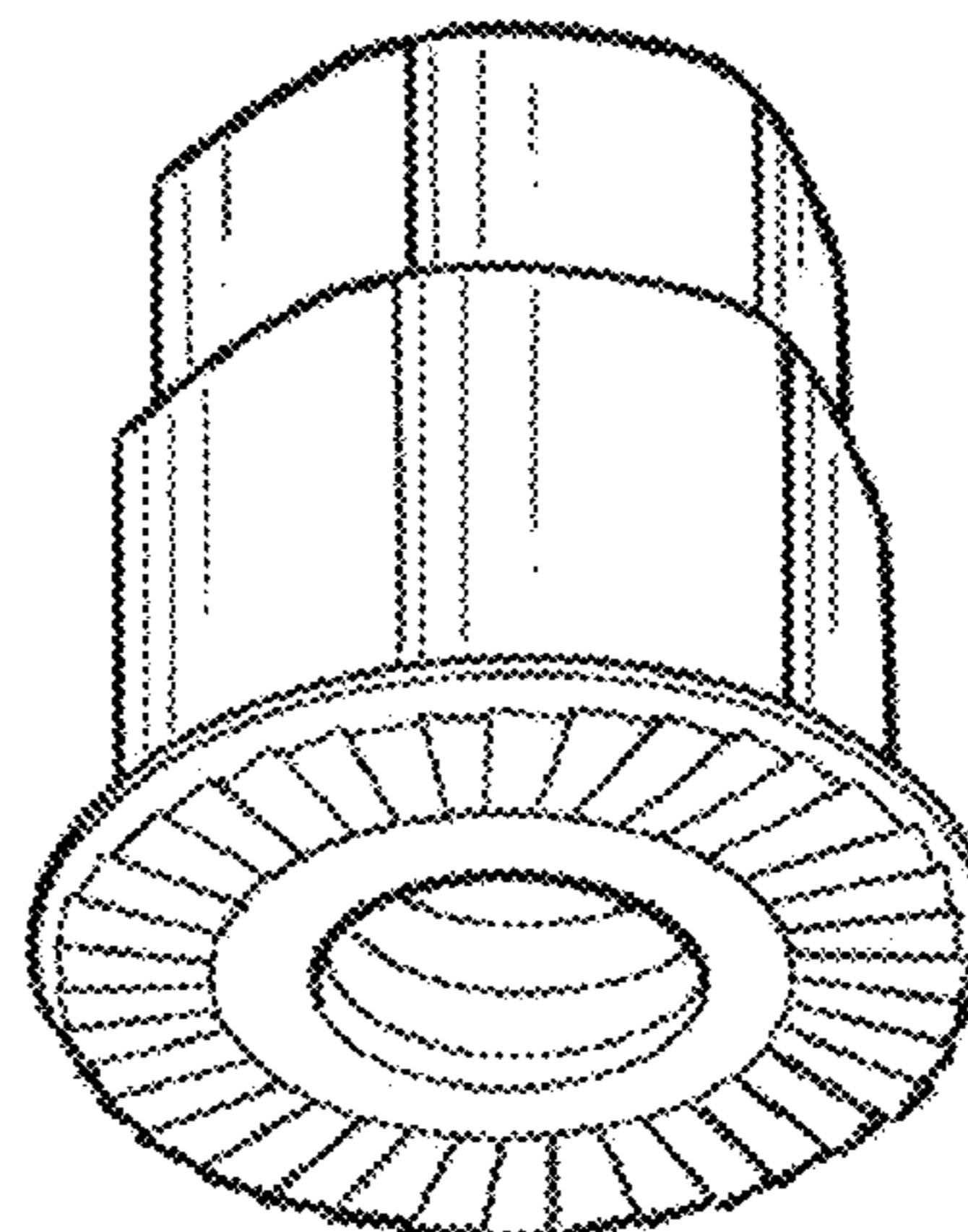
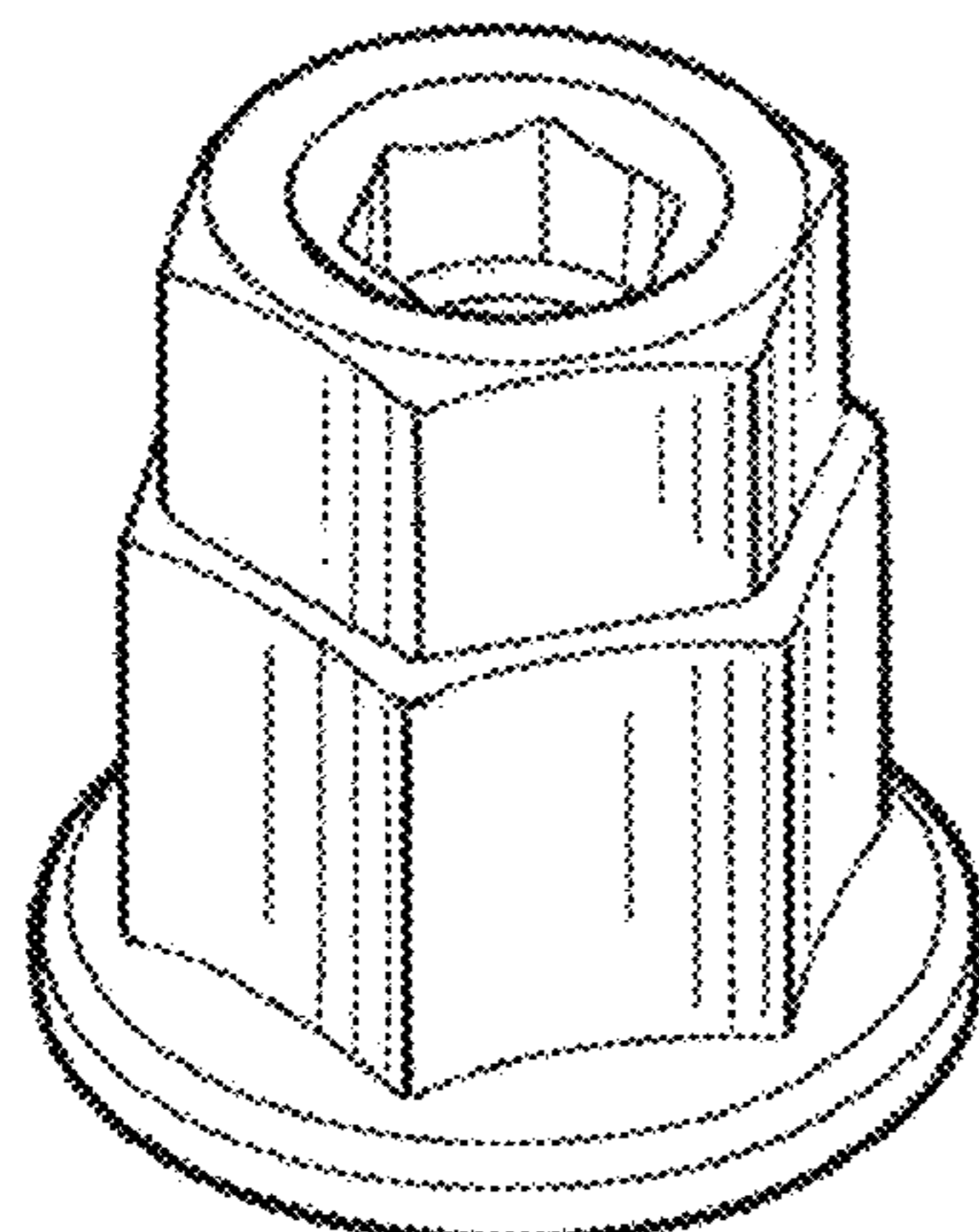
CLAIM

(57) The ornamental design for a tri-drive nut, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a tri-drive nut according to the design;
FIG. 2 is a bottom perspective view thereof;
FIG. 3 is a front elevational view thereof;
FIG. 4 is a top plan view thereof; and,
FIG. 5 is a bottom plan view thereof.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,387,129 B2 * 5/2002 Rieser A61B 17/8615
606/318
D459,207 S * 6/2002 Miyata D8/397
6,457,923 B1 * 10/2002 Grossman A47C 17/1753
411/104
6,478,518 B1 * 11/2002 Hwang F16B 12/14
411/104
6,540,750 B2 * 4/2003 Burkhart A61B 17/0401
606/232
D512,886 S * 12/2005 Christensen D8/14
D524,149 S * 7/2006 Kim D8/397
D551,972 S * 10/2007 Jacobs D9/445
D588,893 S * 3/2009 Radich D8/70
D602,349 S * 10/2009 Andersson D8/399
D609,999 S * 2/2010 Andersson D8/399
D613,594 S * 4/2010 Huang D12/213
D613,595 S * 4/2010 Huang D12/213
D614,247 S * 4/2010 Clausen D21/488
7,981,143 B2 * 7/2011 Doubler F16B 37/0864
606/300
D646,153 S * 10/2011 Andersson D8/397
D646,154 S * 10/2011 Andersson D8/397
8,109,048 B2 2/2012 West et al.
8,272,174 B2 9/2012 Stearns et al.
8,353,650 B2 1/2013 Wiley et al.
8,375,645 B2 2/2013 Iwauchi et al.
D679,988 S * 4/2013 Yamazaki D8/397
D691,033 S * 10/2013 Allman D8/397
D698,234 S * 1/2014 Bauer D8/397
8,622,677 B2 * 1/2014 Wu B60S 9/08
411/427
D698,637 S * 2/2014 Su D8/397
D706,126 S * 6/2014 Orow D8/397
8,752,338 B2 6/2014 Schaefer et al.
8,806,813 B2 8/2014 Plaisted et al.
D713,243 S * 9/2014 Hsu D8/397
8,919,053 B2 12/2014 West
D721,423 S * 1/2015 Jacques D23/260
8,935,893 B2 1/2015 Liu et al.
8,938,932 B1 1/2015 Wentworth et al.
D725,461 S * 3/2015 Kopp D8/397
9,004,836 B2 * 4/2015 Wells F16B 23/0007
411/402
9,076,899 B2 7/2015 Schrock
9,080,792 B2 7/2015 Patton et al.
9,097,443 B2 8/2015 Liu et al.
9,166,524 B2 10/2015 West et al.
D788,574 S * 6/2017 Baiz D8/387
2011/0000519 A1 1/2011 West
2011/0000544 A1 1/2011 West
2012/0234378 A1 9/2012 West et al.
2012/0301661 A1 11/2012 West et al.
2013/0048815 A1 2/2013 Wagner et al.
2013/0048816 A1 2/2013 Wentworth et al.
2014/0158184 A1 6/2014 West et al.
2014/0175244 A1 6/2014 West et al.

2015/0013237 A1 1/2015 Schaefer et al.
2015/0034355 A1 2/2015 Patton et al.
2015/0068590 A1 3/2015 West et al.
2015/0129517 A1 5/2015 Wildes
2015/0168021 A1 6/2015 Wentworth et al.
2015/0204583 A1 7/2015 Stephan et al.
2015/0244308 A1 8/2015 Patton et al.
2015/0280638 A1 10/2015 Stephan et al.
2015/0288320 A1 10/2015 Stearns et al.

OTHER PUBLICATIONS

[http://www.bing.com/images/search?q=tri+drive+nut
&view=detailv2
&&id=80C4DD5253315F30F57D66911B90DC49F0400179
&selectedIndex=31&ccid=cbD7XbBT
&simid=608041072270839485&thid=OIP.
M71b0fb5db053c5ecc513da6b6e2490f0o0&ajaxhist=0](http://www.bing.com/images/search?q=tri+drive+nut&view=detailv2&&id=80C4DD5253315F30F57D66911B90DC49F0400179&selectedIndex=31&ccid=cbD7XbBT&simid=608041072270839485&thid=OIP.M71b0fb5db053c5ecc513da6b6e2490f0o0&ajaxhist=0), 1 page,
retrieved Apr. 1, 2016.
[http://www.bing.com/images/search?q=tri+drive+nut
&view=detailv2
&id=8022FC13E71E8912BE827148288920389F6F6CD8
&selectedIndex=20&ccid=BOZcykR9
&simid=608049022255629007&thid=O1PM04e65c
ca447d644c88e172521a2b3aaf0&mode=overlay&first=1](http://www.bing.com/images/search?q=tri+drive+nut&view=detailv2&id=8022FC13E71E8912BE827148288920389F6F6CD8&selectedIndex=20&ccid=BOZcykR9&simid=608049022255629007&thid=O1PM04e65c ca447d644c88e172521a2b3aaf0&mode=overlay&first=1), 1 page,
retrieved Apr. 1, 2016.
[http://www.bing.com/images/search?q=tri+drive+screw
&view=detailv2
&&id=DD12BF8073DE720B323056059182C6D86E91F969
&selectedIndex=30&ccid=j57ZZkxh
&simid=607989846202122750&thid=OIP.
M8f9ed964ac61774bd32abaf184c076cdo0&ajaxhist=0](http://www.bing.com/images/search?q=tri+drive+screw&view=detailv2&&id=DD12BF8073DE720B323056059182C6D86E91F969&selectedIndex=30&ccid=j57ZZkxh&simid=607989846202122750&thid=OIP.M8f9ed964ac61774bd32abaf184c076cdo0&ajaxhist=0), 1 page,
retrieved Apr. 1, 2016.
[http://www.bing.com/images/search?q=tri-drive+socket
&view=detailv2
&&id=6FAC151036BABE696377D989C28380E64C9C21A2
&selectedIndex=121&ccid=nm2PL70D
&simid=608022930330814765&thid=OIP.
M9e6d8f2fbd03832c834a197be6934bf1o0&ajaxhist=0](http://www.bing.com/images/search?q=tri-drive+socket&view=detailv2&&id=6FAC151036BABE696377D989C28380E64C9C21A2&selectedIndex=121&ccid=nm2PL70D&simid=608022930330814765&thid=OIP.M9e6d8f2fbd03832c834a197be6934bf1o0&ajaxhist=0), 1 page,
retrieved Apr. 1, 2016.
[http://www.bing.com/images/search?q=sauare+socket
&view=detailv2
&&id=1D509F9A8DFC7BBB4B007C1E258779F74779A67B
&selectedIndex=146&ccid=TIaND%2fol
&simid=608049464641849402&thid=OIP.
M4e568d0ffa089a0070579d68bf010e9bo0&ajaxhist=0](http://www.bing.com/images/search?q=sauare+socket&view=detailv2&&id=1D509F9A8DFC7BBB4B007C1E258779F74779A67B&selectedIndex=146&ccid=TIaND%2fol&simid=608049464641849402&thid=OIP.M4e568d0ffa089a0070579d68bf010e9bo0&ajaxhist=0), 1 page,
retrieved Apr. 1, 2016.
[http://www.bing.com/images/search?q=security+nut
&view=detailv2
&&id=4C2424531230A169ADC4DAE0F4EB8EC124253035
&selectedIndex=0&ccid=ZLH08zqK
&simid=608029617595547726&thid=OIP.
M64b1f4f33a8aedc8c63521a0138a6f19o0&ajaxhist=0](http://www.bing.com/images/search?q=security+nut&view=detailv2&&id=4C2424531230A169ADC4DAE0F4EB8EC124253035&selectedIndex=0&ccid=ZLH08zqK&simid=608029617595547726&thid=OIP.M64b1f4f33a8aedc8c63521a0138a6f19o0&ajaxhist=0), 1 page.,
retrieved Apr. 1, 2016.

* cited by examiner

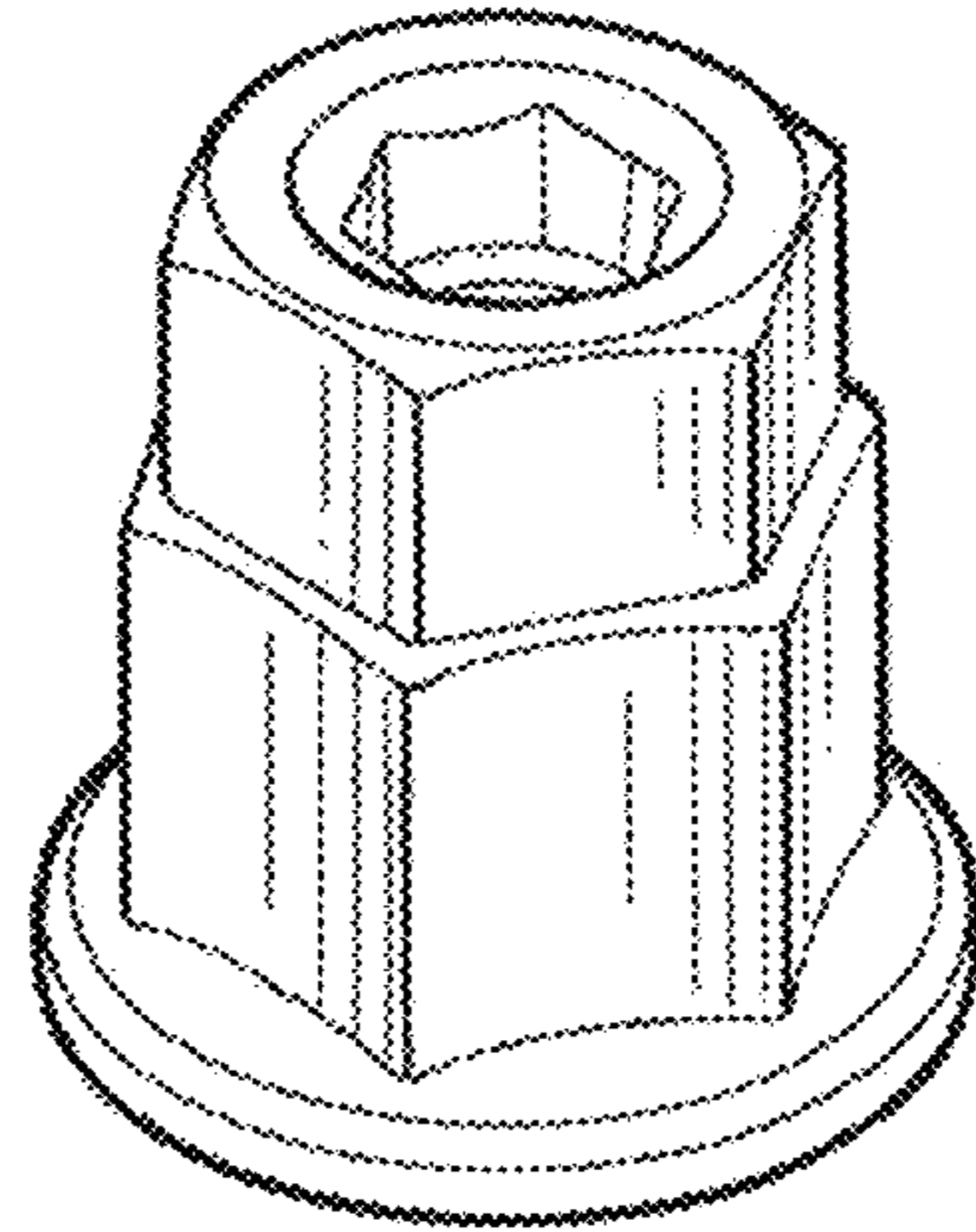


FIG. 1

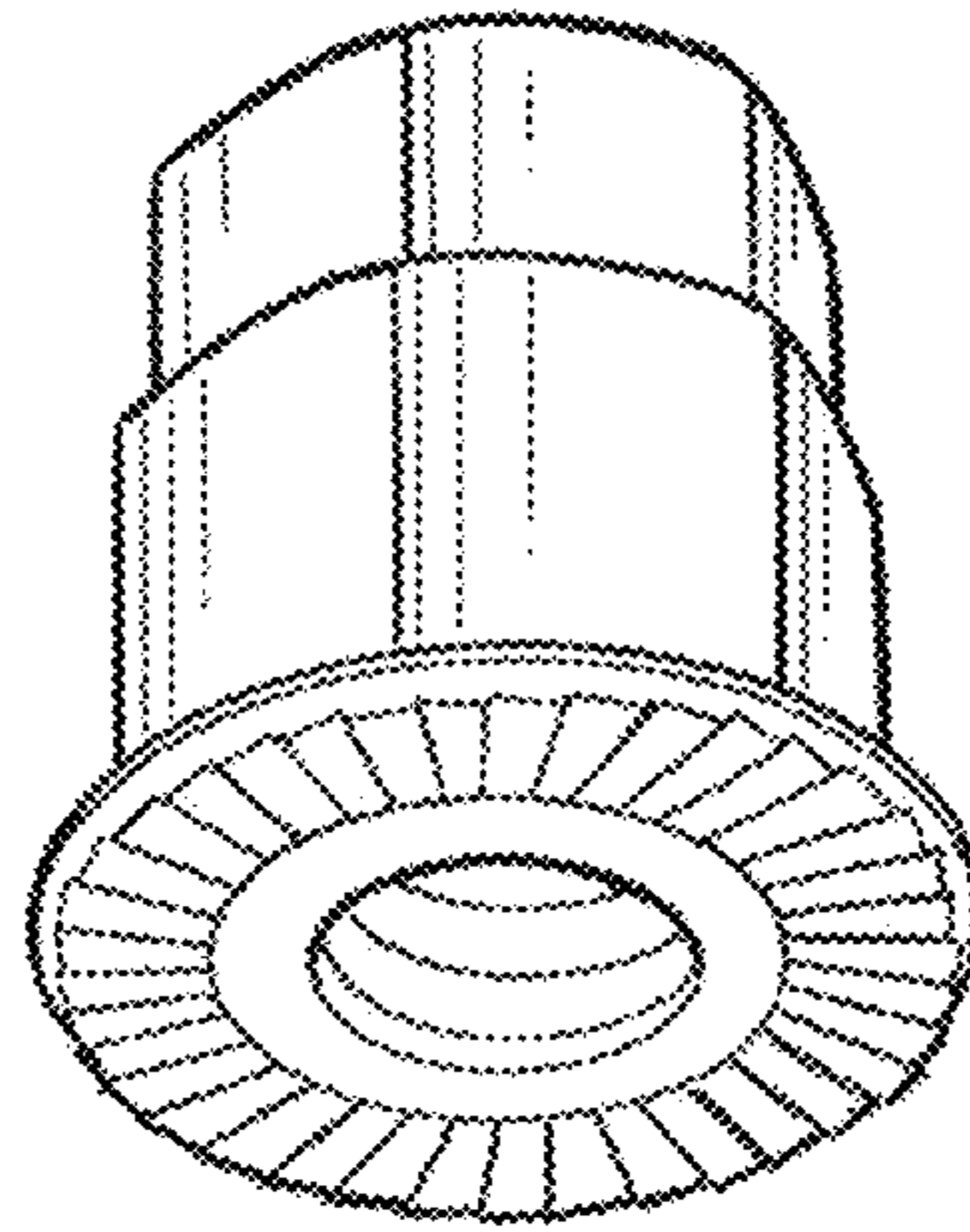


FIG. 2

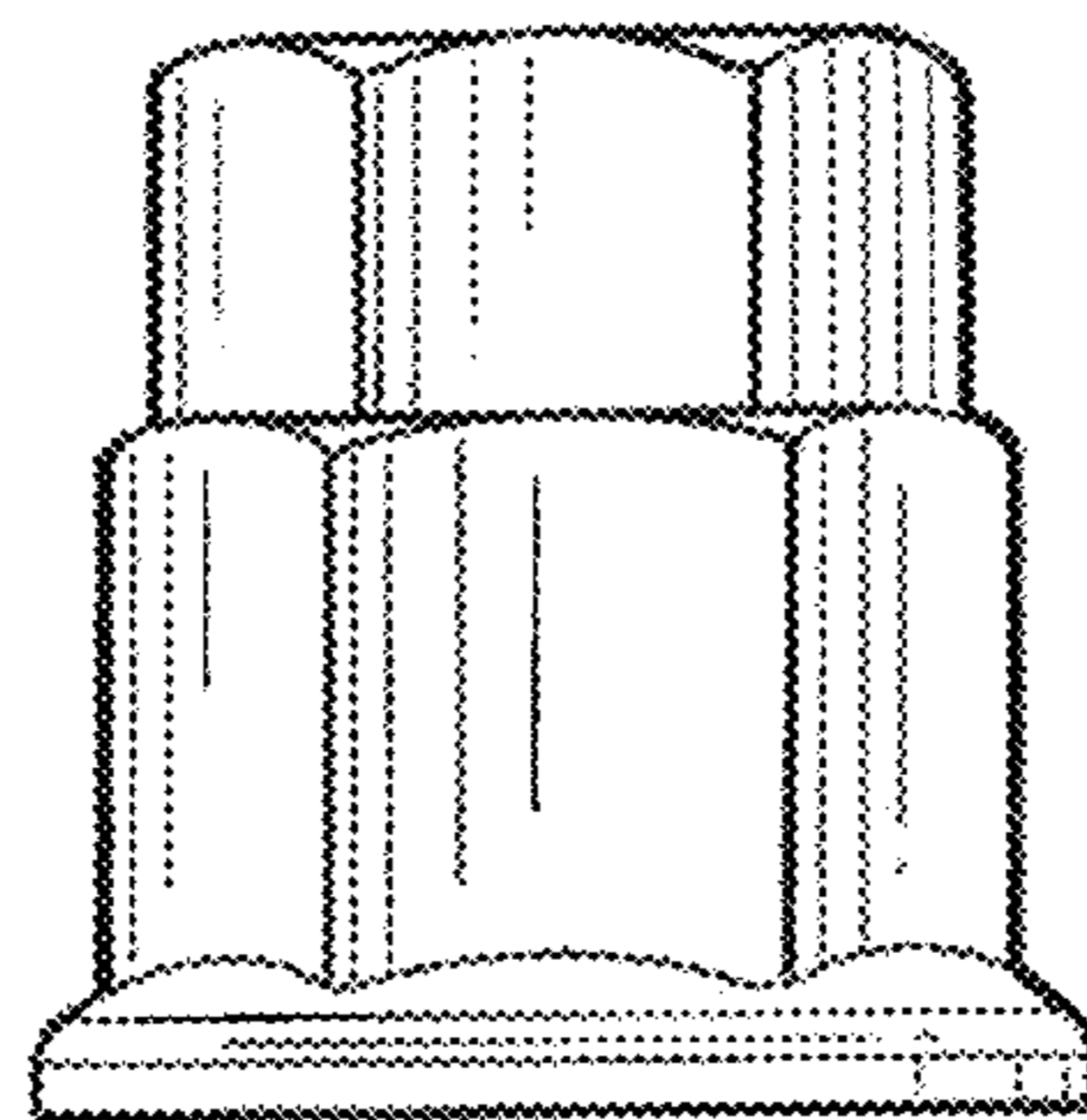


FIG. 3

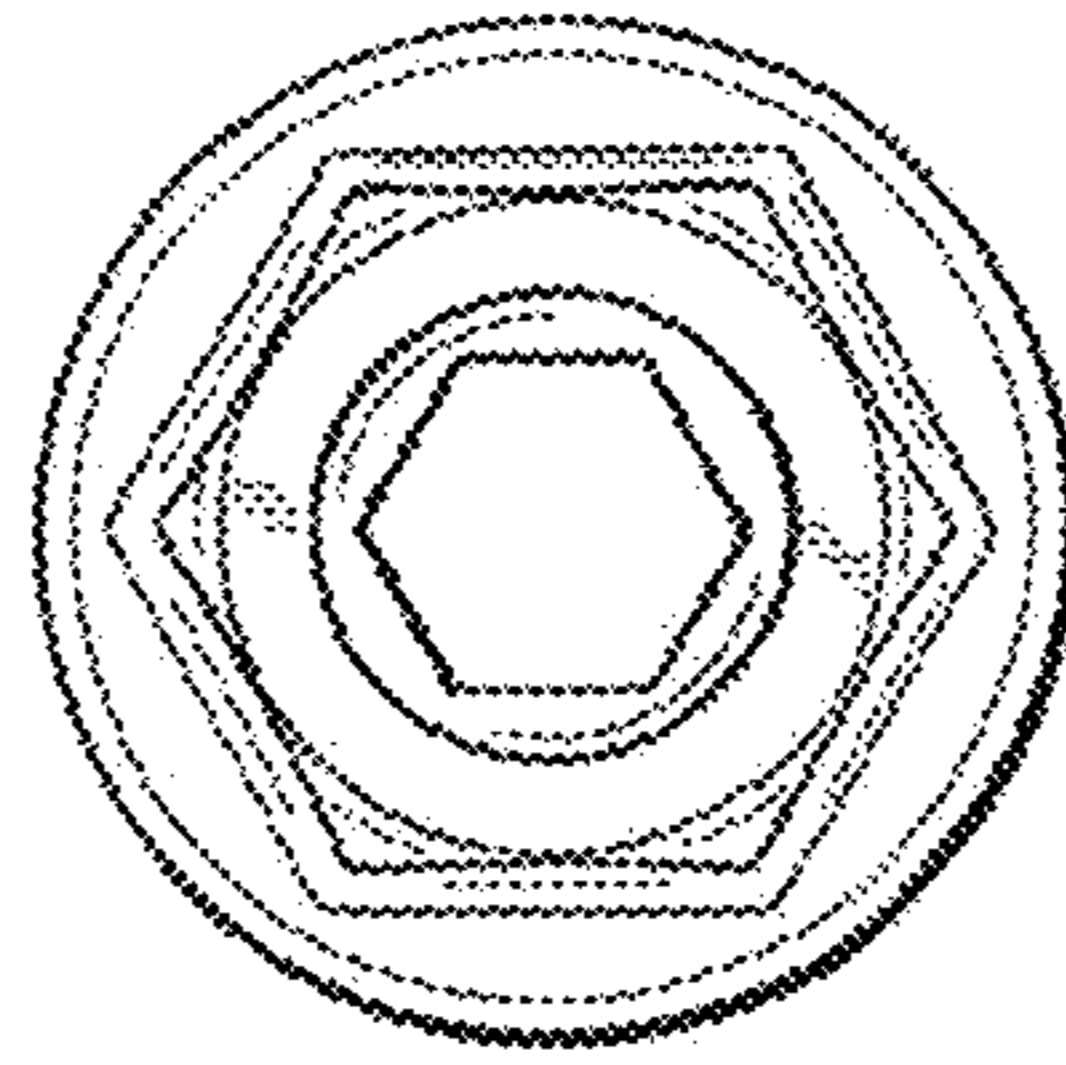


FIG. 4

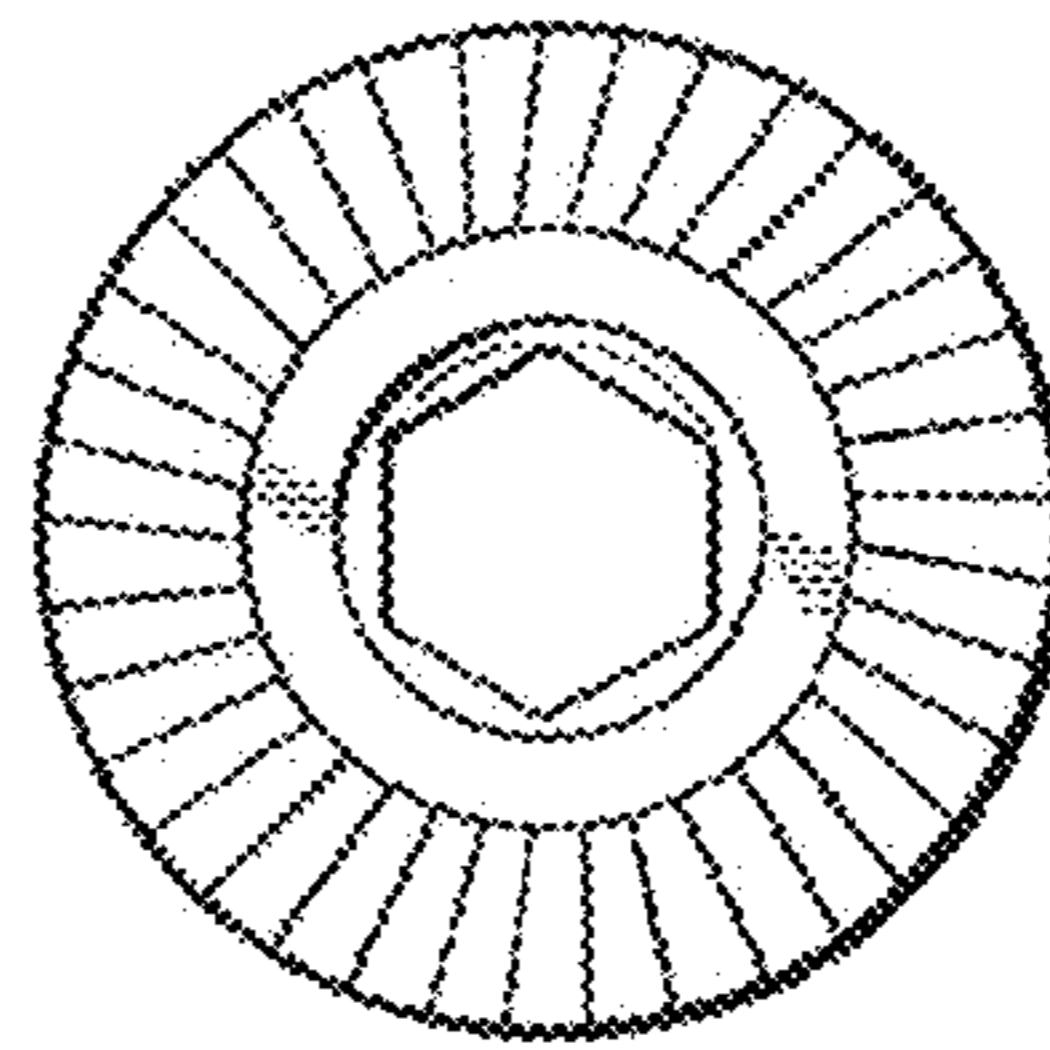


FIG. 5