



US00D896156S

(12) **United States Design Patent** (10) **Patent No.:** **US D896,156 S**
Tufts, Jr. et al. (45) **Date of Patent:** **** Sep. 15, 2020**

(54) **COUPLER FOR WINDSHIELD WIPER**

4,343,064 A * 8/1982 van den Berg B60S 1/4038
15/250.32

(71) Applicant: **TRICO PRODUCTS CORPORATION**, Rochester Hills, MI (US)

4,951,343 A 8/1990 Scorsiroli
5,084,933 A 2/1992 Buechele
(Continued)

(72) Inventors: **Lindsey Tufts, Jr.**, Kent, OH (US); **David Boll**, Avon, OH (US); **Nicholas E. Stanca**, Westlake, OH (US); **Robert Soreo**, Cleveland Heights, OH (US); **R. Kenneth Thorstenson, IV**, Shelby Township, MI (US); **Dan Ehde**, Ortonville, MI (US)

FOREIGN PATENT DOCUMENTS

BR 112012011686 A2 3/2016
CH 635544 A5 4/1983
(Continued)

(73) Assignee: **TRICO PRODUCTS CORPORATION**, Rochester Hills, MI (US)

OTHER PUBLICATIONS

Best Windshield Wipers: The Best Replacements for Your Stock Wipers, TheDrive.com, Published on Apr. 12, 2019, [online], [site visited Jul. 02, 2020]. <URL: <https://www.thedrive.com/reviews/27417/best-windshield-wipers>> (Year: 2019).*
(Continued)

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

Primary Examiner — T Chase Nelson
Assistant Examiner — Jonathan J. Han

(21) Appl. No.: **29/687,795**

(74) *Attorney, Agent, or Firm* — Bryan Cave Leighton Paisner LLP

(22) Filed: **Apr. 16, 2019**

(51) **LOC (12) Cl.** **12-16**

(52) **U.S. Cl.**
USPC **D12/220; D12/219**

(58) **Field of Classification Search**
USPC D12/219-220, 400; 15/250.001, 246, 15/247, 250.4, 250.361, 250.19, 250.48, 15/250.03, 250.04, 250.31-250.33, 15/250.351, 250.38, 250.201, 250.451, 15/250.458, 250.07, 250.44
CPC B60S 1/4003; B60S 1/3801
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a coupler for windshield wiper, as shown and described.

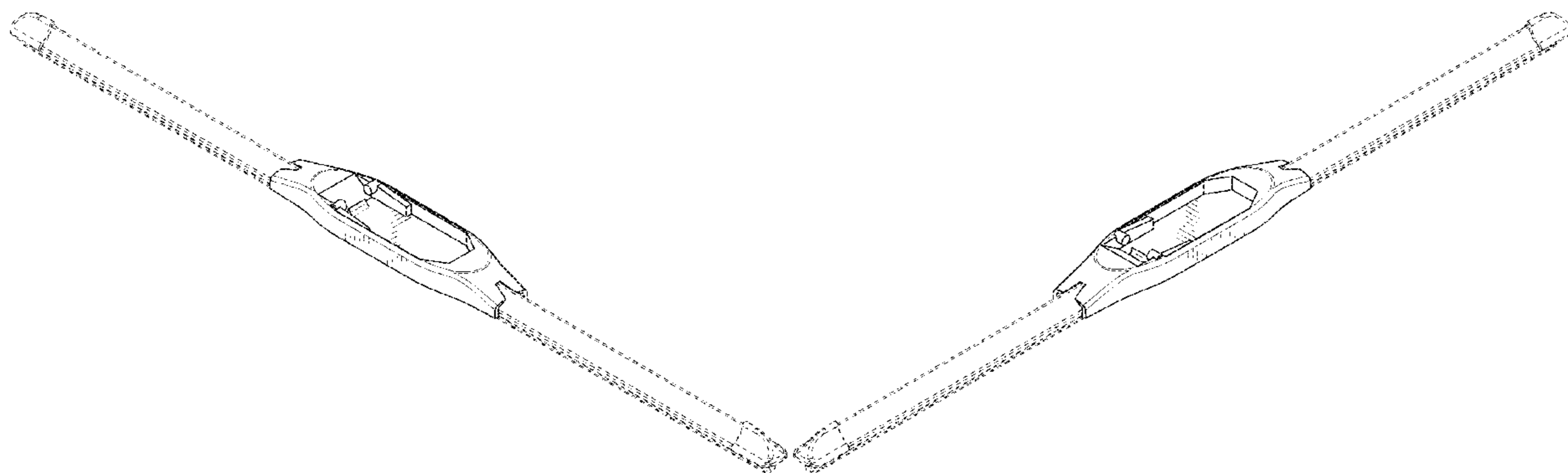
DESCRIPTION

FIG. 1 is an upper perspective view of a coupler for windshield wiper;
FIG. 2 is another upper perspective view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is an end view thereof;
FIG. 6 is an opposite end view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.
The broken lines in the drawings depict portions that form no part of the claimed design.

(56) **References Cited**
U.S. PATENT DOCUMENTS

4,094,038 A 6/1978 Hancu
4,337,547 A 7/1982 Hancou
4,343,062 A 8/1982 van den Berg

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,289,608 A 3/1994 Kim
 5,392,487 A 2/1995 Yang
 5,611,103 A 3/1997 Lee
 5,920,950 A * 7/1999 Young, III B60S 1/4016
 15/250.32
 6,332,236 B1 * 12/2001 Ku B60S 1/4003
 15/250.32
 6,640,380 B2 11/2003 Rosenstein et al.
 6,658,690 B1 12/2003 Westermann et al.
 6,779,223 B1 8/2004 Roekens
 7,055,207 B2 6/2006 Coughlin
 D524,223 S * 7/2006 Nakano D12/219
 D552,025 S * 10/2007 Kim D12/219
 7,299,520 B2 11/2007 Huang
 D593,480 S * 6/2009 Kim D12/219
 D594,805 S * 6/2009 Kim D12/219
 D594,806 S * 6/2009 Kim D12/219
 D615,473 S * 5/2010 Kim D12/219
 D660,773 S * 5/2012 Chien D12/219
 D664,490 S * 7/2012 Chiang D12/219
 D665,326 S * 8/2012 Kim D12/219
 8,261,403 B2 9/2012 Ehde
 D680,051 S * 4/2013 Tolentino D12/219
 D687,759 S * 8/2013 An D12/219
 D692,818 S * 11/2013 Tolentino D12/219
 D695,673 S * 12/2013 Kim D12/219
 D702,175 S * 4/2014 Kim D12/219
 8,850,653 B2 10/2014 Depondt
 D717,225 S * 11/2014 Kuo D12/220
 8,938,847 B2 1/2015 Avasiloaie et al.
 8,959,701 B2 2/2015 Kim et al.
 8,973,209 B2 3/2015 Depondt
 9,073,519 B2 7/2015 Depondt
 9,108,595 B2 8/2015 Tolentino et al.
 D740,737 S * 10/2015 Hyun D12/219
 9,174,611 B2 11/2015 Tolentino et al.
 9,333,948 B2 5/2016 Depondt
 9,381,893 B2 7/2016 Tolentino et al.
 9,387,829 B2 7/2016 Wang
 9,387,830 B2 7/2016 Depondt
 9,511,748 B2 12/2016 Piotrowski et al.
 9,555,775 B2 1/2017 Fournier et al.
 D787,417 S * 5/2017 Lee D12/219
 D789,271 S * 6/2017 Hyun D12/219
 9,744,946 B2 8/2017 Young, III et al.
 D799,401 S * 10/2017 Lee D12/219
 9,889,822 B2 2/2018 Tolentino et al.
 10,005,431 B2 6/2018 Tolentino et al.
 D821,954 S * 7/2018 Hyun D12/219
 10,023,154 B2 7/2018 Piotrowski et al.
 10,029,652 B2 7/2018 Herinckx et al.
 10,077,026 B2 9/2018 Tolentino et al.
 10,118,596 B2 11/2018 Fournier et al.
 10,166,951 B2 1/2019 Kawashima et al.
 10,189,445 B2 1/2019 Tolentino et al.
 D854,488 S * 7/2019 Hyun D12/219
 10,363,905 B2 7/2019 Tolentino
 10,457,252 B2 10/2019 Tolentino
 10,464,533 B2 11/2019 Tolentino et al.
 2002/0174505 A1 * 11/2002 Kim B60S 1/40
 15/250.32
 2005/0028312 A1 2/2005 Coughlin
 2006/0026786 A1 * 2/2006 Ku B60S 1/38
 15/250.32
 2007/0017054 A1 * 1/2007 Hussaini B60S 1/4003
 15/250.32
 2007/0234501 A1 * 10/2007 Ho B60S 1/3856
 15/250.32
 2008/0289133 A1 11/2008 Kim
 2009/0151110 A1 6/2009 Ku
 2009/0199357 A1 8/2009 Thienard
 2009/0307862 A1 12/2009 Boland et al.
 2009/0313782 A1 * 12/2009 Chien B60S 1/381
 15/250.31

2010/0205763 A1 8/2010 Ku
 2011/0005020 A1 1/2011 Koppen et al.
 2011/0247166 A1 10/2011 Depondt et al.
 2011/0277264 A1 11/2011 Ehde
 2012/0060315 A1 3/2012 Avasiloaie et al.
 2012/0180246 A1 * 7/2012 Ku B60S 1/3801
 15/250.32
 2013/0269141 A1 * 10/2013 Ku B60S 1/3801
 15/250.32
 2014/0123429 A1 * 5/2014 Lee B60S 1/4003
 15/250.201
 2014/0259504 A1 9/2014 Piotrowski et al.
 2014/0317875 A1 10/2014 Tolentino et al.
 2015/0020341 A1 * 1/2015 Huang B60S 1/3801
 15/250.452
 2015/0258967 A1 9/2015 Lepper et al.
 2015/0353054 A1 12/2015 Tolentino et al.
 2016/0185320 A1 * 6/2016 An B60S 1/3801
 15/250.351
 2017/0334403 A1 11/2017 Kawashima
 2018/0126958 A1 * 5/2018 Gallegos de la Pena
 B60S 1/3858
 2020/0139937 A1 * 5/2020 Tufts, Jr. B60S 1/40

FOREIGN PATENT DOCUMENTS

CN 101311043 A 5/2007
 CN 101674962 A 5/2007
 CN 104349952 A 6/2012
 CN 106573599 A 7/2014
 CN 102596659 B 5/2015
 CN 103687758 B 12/2016
 DE 202005021307 U1 12/2004
 DE 102005016486 A1 4/2005
 DE 202008011314 U1 8/2008
 DE 102009000483 A1 9/2008
 DE 102009043695 A1 10/2009
 DE 20091046788 11/2009
 DE 202011001119 U1 3/2011
 DE 102010041152 A1 5/2011
 DE 102012110738 A1 11/2011
 DE 102011079783 A1 1/2013
 DE 102015215709 A1 8/2015
 EP 0231129 B1 5/1987
 EP 0255352 B1 3/1988
 EP 1849666 A1 4/2006
 EP 25535231 A1 6/2011
 EP 2546115 A2 7/2011
 EP 2861467 B1 6/2012
 EP 2501591 B1 8/2013
 EP 3164303 B1 7/2014
 EP 2360070 9/2014
 EP 2736775 B1 10/2015
 ES 2428821 T3 11/2013
 ES 2552997 T3 12/2015
 FR 2195956 A6 3/1974
 FR 2254959 A6 11/1975
 IN 2066DEN2012 8/2015
 JP 5362118 B2 12/2013
 KR 100891195 B1 4/2008
 KR 100903374 B1 7/2008
 KR 101381152 B1 4/2014
 PL 2501591 T3 1/2014
 RU 2381120 C2 10/2003
 RU 2686270 C1 6/2012
 RU 2014106909 A 8/2017
 WO 2004069618 A1 2/2003
 WO 2006106006 A1 4/2005
 WO 2006128763 A1 6/2005
 WO 2009071372 A1 12/2007
 WO 2011040743 9/2009
 WO 2011060979 A1 5/2011
 WO 2013186111 A1 6/2012
 WO 2013013958 A1 1/2013
 WO 2016000785 A1 7/2014
 WO 2017080783 A1 11/2015

(56)

References Cited

OTHER PUBLICATIONS

TRICO Force—Large Hook Wiper Installation Video, YouTube.com, TRICO Wiper Blades, Aug. 30, 2011, [online], [site visited Jul. 2, 2020]. <URL: <https://www.youtube.com/watch?v=QAz-91-RzcQ>> (Year: 2011).*

10 Best Windshield Wipers for Any Weather Conditions, CarCareTotal.com, Updated Sep. 27, 2018, Written by Edward Miller, [online], [site visited Jul. 2, 2020]. <URL: <https://carcaretotal.com/best-windshield-wipers/>> (Year: 2018).*

Reflex Platinum Wiper Blades, Installation Instructions (2 pages). Reflex Platinum Wiper Blade, Canadian Tire, Canada; retrieved from the Internet Feb. 11, 2020; <<https://www.canadiantire.ca/en/pdp/reflex-platinum-wiper-blade-0211866p.html>>(5 pages).

Rain X Silicone AdvantEdge; retrieved from the Internet Feb. 19, 2020; <<https://www.rainx.com/silicone-advantedge/>> (5 pages).

How to Install Rain-X Silicone AdvantEdge Wiper Blades; retrieved from the Internet Feb. 19, 2020; <<https://www.rainx.com/installation-instructions/how-to-install-rain-x-silicone-advantedge-wiper-blades/>> (2 pages).

Wiper Blade Removal Instructions; retrieved from the Internet Feb. 19, 2020; <<https://www.rainx.com/instructions/wiper-blade-removal-instructions/>> (1 page).

Rain X Silicone AdvantEdge Premium Wiper Blade; retrieved from the Internet Feb. 19, 2020; <<https://shop.advanceautoparts.com/p/rain-x-silicone-advantedge-premium-beam-wiper-blade-22-inch-830022/11920347-P>> (2 pages).

* cited by examiner

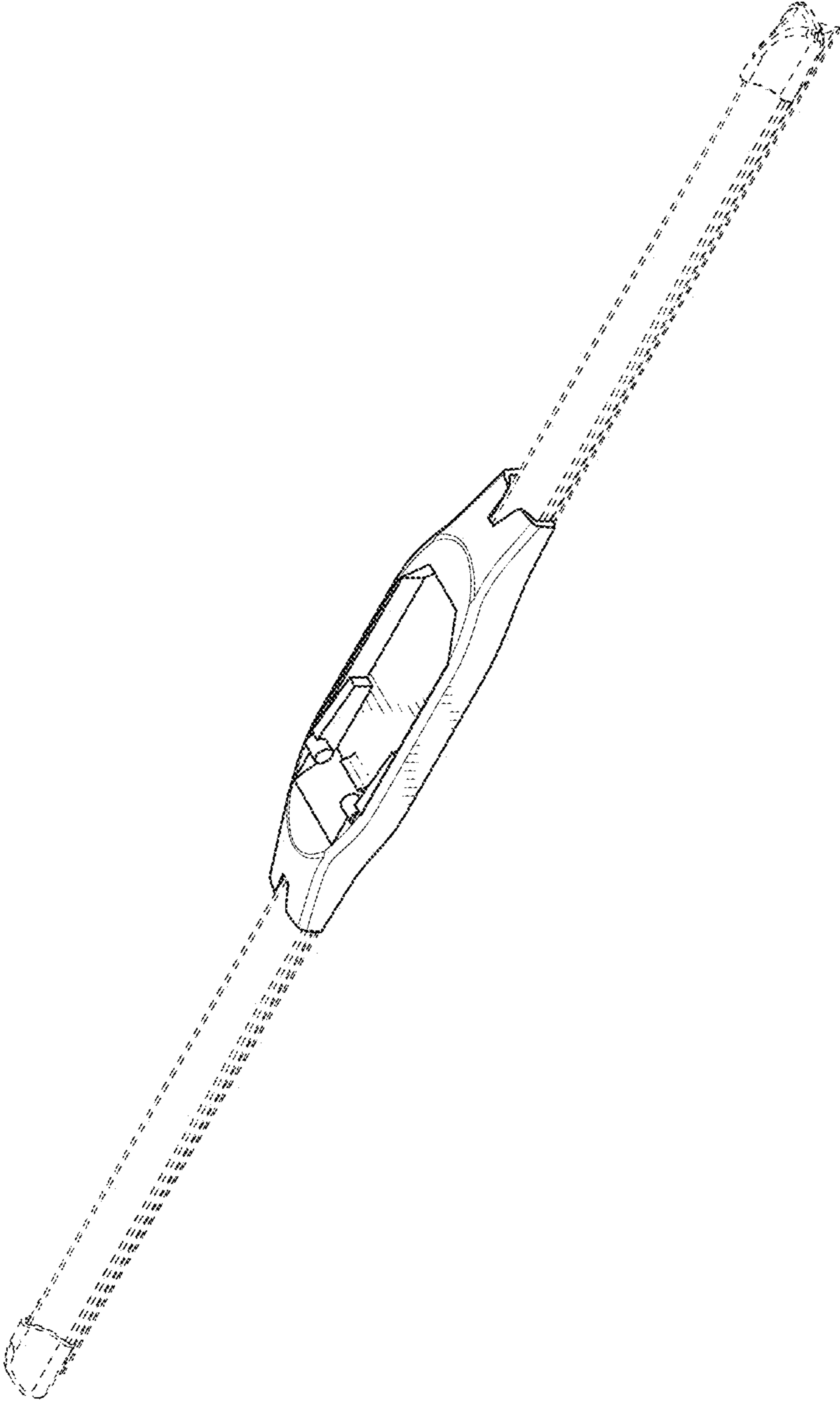


FIG. 1

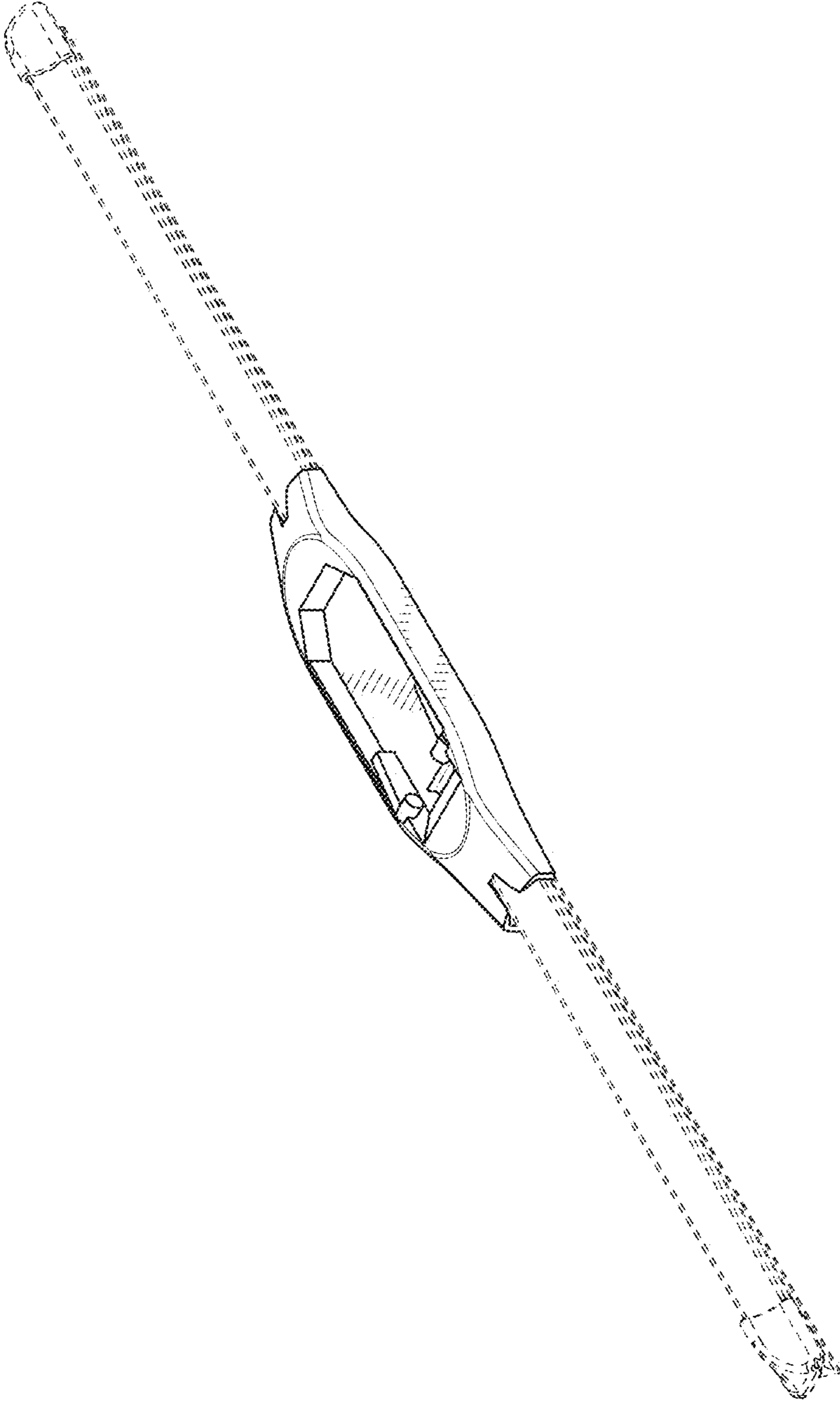


FIG. 2

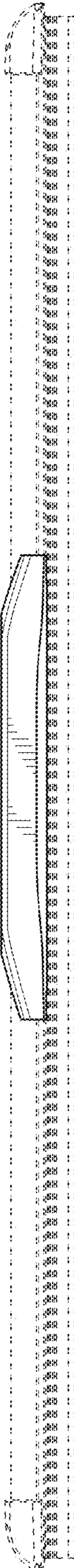


FIG. 3

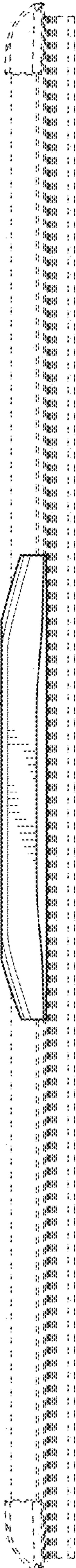


FIG.4



FIG. 5

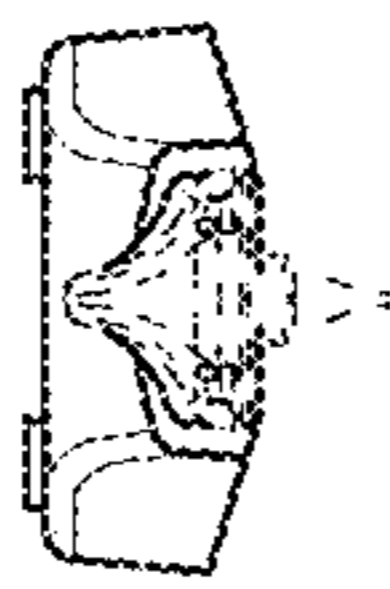


FIG. 6

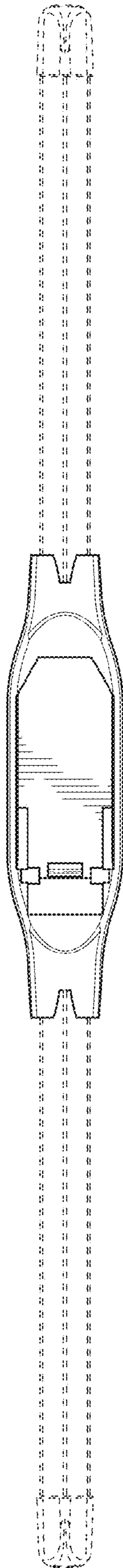


FIG. 7

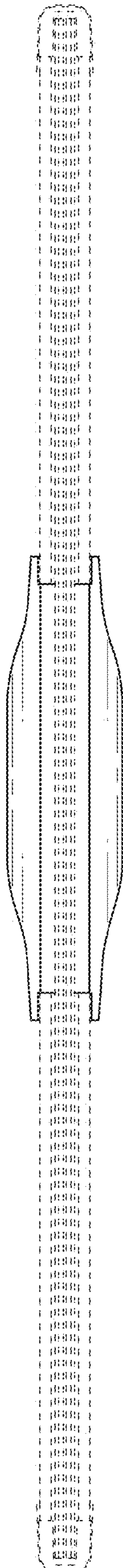


FIG. 8