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(12) **United States Design Patent** (10) **Patent No.:** **US D924,044 S**
Vandenberg et al. (45) **Date of Patent:** **** Jul. 6, 2021**

(54) **FASTENER POSITIONING DEVICE**

1,714,738 A 5/1929 Smith
1,879,459 A 9/1932 Pelton
1,888,611 A 11/1932 Wolfson
(Continued)

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FOREIGN PATENT DOCUMENTS

CA 1242601 10/1988
CH 695482 6/2006
(Continued)

(73) Assignee: **National Nail Corp.**, Grand Rapids, MI (US)

OTHER PUBLICATIONS

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

DeckLock Limited Universal Decking Spacers, downloaded from <http://www.hellotrade.com/decklock/universal-decking-spacers.html> (viewed Jun. 8, 2017).

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(52) **U.S. Cl.**
USPC **D8/382**

(58) **Field of Classification Search**
USPC D8/382, 349, 354, 373, 374, 380, 394, D8/395, 398, 399

CPC E04F 15/02; E04F 15/04; E04F 15/02183; E04F 2015/02088; E04F 2015/02094; E04F 2201/05; E04F 2015/02116; E04F 2015/02122; E04F 2015/02077; Y10T 403/4602; Y10T 403/553; Y10T 403/75; F16B 5/002

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a fastener positioning device, as shown and described.

DESCRIPTION

FIG. 1 is an upper perspective view of the fastener positioning device embodying the new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a right side view thereof, the left side being a mirror view thereof; FIG. 5 is a top view thereof; and, FIG. 6 is a bottom view thereof.

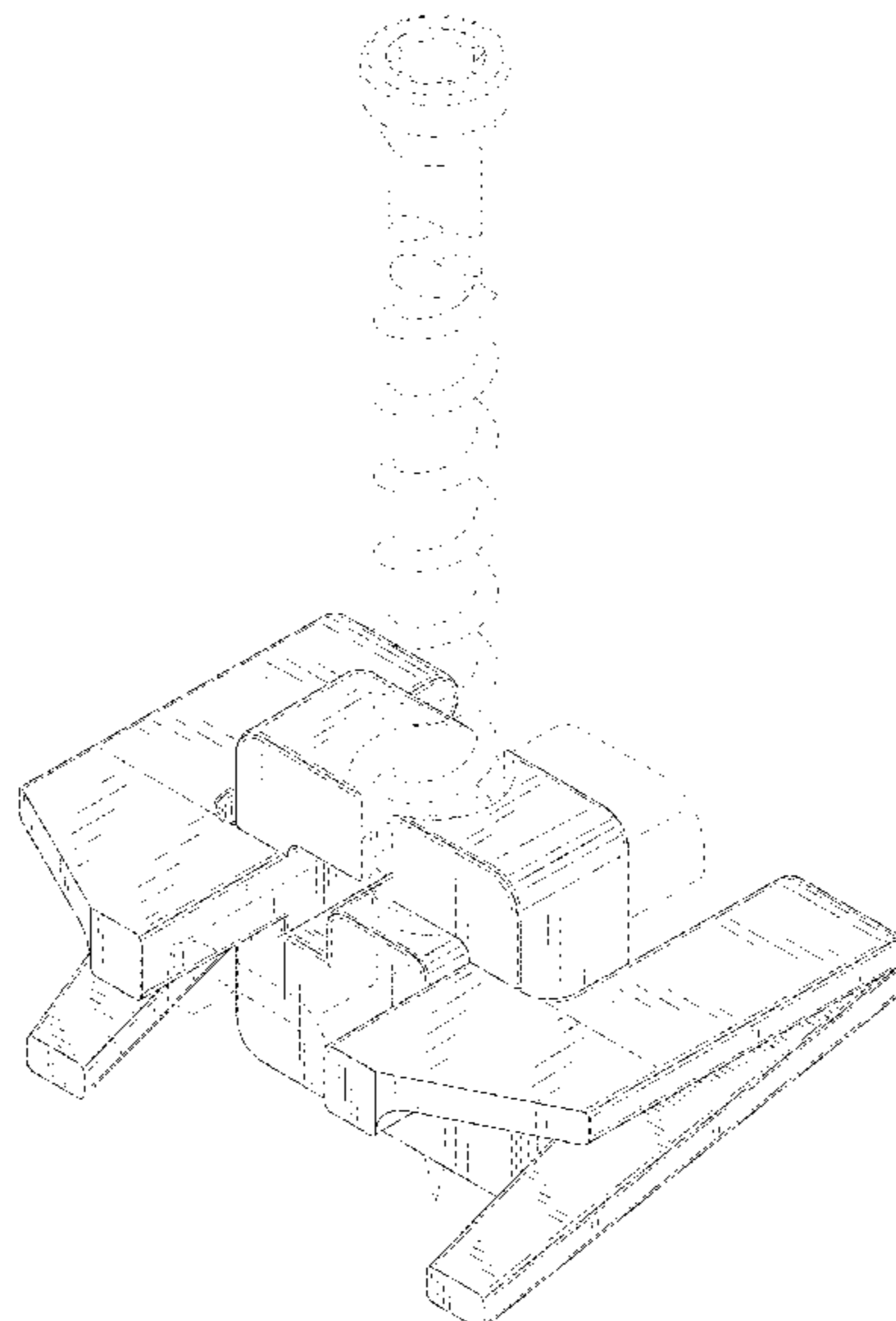
The evenly spaced broken lines rendered in FIG. 1 illustrates the environment of the claimed design and forms no part thereof. The dot-dot-dash broken lines in the drawings define the bounds of the claim and form no part thereof.

1 Claim, 5 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

126,366 A 4/1872 Wills
137,414 A 4/1873 Burdick
138,784 A 5/1873 Bourn
186,463 A 1/1877 Dickinson
411,202 A 9/1889 Rose
876,399 A 1/1908 Robinson
877,831 A 1/1908 Creedon
984,323 A 2/1911 Vauclain



(56)

References Cited

U.S. PATENT DOCUMENTS

2,065,525 A	12/1936	Hamilton	5,337,635 A	8/1994	Habermehl
2,066,813 A	1/1937	Williams	5,341,706 A	8/1994	Takagi
2,116,737 A	5/1938	Urbain	5,351,586 A	10/1994	Habermehl et al.
2,129,975 A	9/1938	Urbain	5,394,667 A	3/1995	Nystrom
2,129,976 A	9/1938	Urbain et al.	5,452,630 A	9/1995	Haas et al.
2,325,766 A	8/1943	Gisondi	5,469,767 A	11/1995	Habermehl
2,338,870 A	1/1944	Praeger	5,531,142 A	7/1996	Adamo
2,620,705 A	12/1952	Podvinecz et al.	5,531,143 A	7/1996	Habermehl et al.
2,774,969 A	12/1956	Samples	5,568,753 A	10/1996	Habermehl et al.
2,994,878 A	8/1961	Abrahamsen	5,570,618 A	11/1996	Habermehl et al.
3,010,496 A	11/1961	Bruce	5,660,016 A	8/1997	Erwin et al.
3,012,247 A	12/1961	Sillars	5,687,624 A	11/1997	Tsuge et al.
3,020,602 A	2/1962	Siering	D391,135 S	2/1998	Habermehl et al.
3,147,484 A	9/1964	Nelson	5,839,332 A	11/1998	Fujiyama et al.
3,177,755 A	4/1965	Kahn	5,842,319 A	12/1998	Ravetto
3,207,023 A	9/1965	Knohl	5,871,486 A	2/1999	Huebner et al.
3,237,360 A	3/1966	Mills	5,884,541 A	3/1999	Habermehl et al.
3,267,630 A	8/1966	Olmholt	5,904,079 A	5/1999	Tsuge et al.
3,284,117 A	11/1966	Meehan	5,918,512 A	7/1999	Habermehl et al.
3,316,949 A	5/1967	Canfield	5,927,163 A	7/1999	Habermehl et al.
3,331,180 A	7/1967	Vissing et al.	5,934,162 A	8/1999	Habermehl
3,357,295 A	12/1967	Smith	5,988,025 A	11/1999	Sasaki et al.
3,360,176 A	12/1967	Gehl	5,997,209 A	12/1999	Sachs
3,439,464 A	4/1969	Omholt	6,027,004 A	2/2000	Ramella et al.
3,553,919 A	1/1971	Omholt	6,036,398 A	3/2000	Theodorou
3,577,694 A	5/1971	Omholt	D427,050 S	6/2000	Bryan
3,619,963 A	11/1971	Omholt	6,089,132 A	7/2000	Habermehl
3,713,264 A	1/1973	Morgan, Jr.	6,098,442 A	8/2000	Walldorf et al.
3,738,218 A	6/1973	Gutshall	6,109,144 A	8/2000	Muro
3,760,547 A	9/1973	Brenneman	6,109,146 A	8/2000	Muro
3,942,405 A	3/1976	Wagner	6,158,939 A	12/2000	Grossberndt et al.
4,018,254 A	4/1977	DeCaro	6,230,385 B1	5/2001	Nelson
4,023,831 A	5/1977	Thompson	6,244,140 B1	6/2001	Habermehl
4,068,554 A	1/1978	Hirabayashi	6,296,433 B1	10/2001	Forsell et al.
4,117,644 A	10/1978	Weinar	D450,568 S	11/2001	Sachs
4,123,186 A	10/1978	Hoadley	6,314,699 B1	11/2001	West
4,125,006 A	11/1978	Lewis	6,322,307 B1	11/2001	Glover
4,125,972 A	11/1978	Pate	6,328,516 B1	12/2001	Hettich
4,146,071 A	3/1979	Mueller et al.	6,332,741 B1	12/2001	Janusz
4,154,172 A	5/1979	Curtis, Jr.	6,345,940 B2	2/2002	Anjanappa et al.
4,170,430 A	10/1979	Mrotzek	6,394,712 B1	5/2002	Weinstein et al.
4,209,275 A	6/1980	Kim	6,416,269 B1	7/2002	Martel et al.
4,241,638 A	12/1980	Shimizu et al.	6,418,681 B1	7/2002	Dunks
4,266,914 A	3/1981	Seipos	6,418,693 B2	7/2002	Ballard
4,281,494 A	8/1981	Weinar	6,425,306 B1	7/2002	Habermehl
4,296,580 A	10/1981	Weinar	6,439,085 B1	8/2002	Habermehl
4,323,326 A	4/1982	Okada et al.	6,453,780 B2	9/2002	Habermehl
4,329,099 A	5/1982	Shimizu et al.	6,470,641 B1	10/2002	Faure
4,333,286 A	6/1982	Weinar	6,481,937 B1	11/2002	Sommerfeld et al.
4,435,935 A	3/1984	Larrea	6,484,467 B2	11/2002	Crout
4,439,077 A	3/1984	Godsted	6,490,838 B2	12/2002	Summerford
4,448,007 A	5/1984	Adams	D469,007 S	1/2003	Chen et al.
4,467,579 A	8/1984	Weinar	6,514,026 B1	2/2003	Gerhard
4,498,272 A	2/1985	Adams	6,592,015 B1	7/2003	Gostylla et al.
4,572,720 A	2/1986	Rockenfeller et al.	6,594,961 B2	7/2003	Leines
4,586,862 A	5/1986	Yamasaki	6,601,480 B1	8/2003	Habermehl
4,616,462 A	10/1986	Abendroth	6,604,901 B1	8/2003	Grossberndt et al.
4,625,597 A	12/1986	Cast	6,623,228 B1	9/2003	Hettich et al.
4,653,244 A	3/1987	Farrell	6,647,638 B1	11/2003	Doyal
4,701,066 A	10/1987	Beam et al.	6,651,398 B2	11/2003	Gregori
4,703,601 A	11/1987	Abendroth	6,651,400 B1	11/2003	Murphy
4,776,144 A	10/1988	Pardo	6,666,638 B2	12/2003	Craven
4,831,808 A	5/1989	Wynar	6,675,545 B2	1/2004	Chen et al.
4,834,602 A	5/1989	Takasaki	6,711,864 B2	3/2004	Erwin
4,844,651 A	7/1989	Partridge	6,763,643 B1	7/2004	Martensson
4,925,141 A	5/1990	Classen	6,769,332 B2	8/2004	Muro
D315,668 S *	3/1991	Murphy D8/354	6,843,402 B2	1/2005	Sims et al.
5,015,134 A	5/1991	Gotoh	6,871,467 B2	3/2005	Hafner
5,064,324 A	11/1991	Ragaller	6,887,023 B1	5/2005	Lu et al.
5,083,483 A	1/1992	Takagi	6,915,724 B2	7/2005	Kigel et al.
5,184,497 A	2/1993	Hanlon et al.	6,941,635 B2	9/2005	Craven
5,188,496 A	2/1993	Giannuzzi	6,941,847 B2	9/2005	Habermehl et al.
5,271,670 A	12/1993	Grabher	6,986,934 B2	1/2006	Chen et al.
5,282,708 A	2/1994	Giannuzzi	6,993,875 B2	2/2006	Rudduck
5,322,396 A	6/1994	Blacker	7,037,059 B2	5/2006	Dicke
			7,044,460 B2	5/2006	Bolton
			7,052,200 B2	5/2006	Harris
			7,073,303 B2	7/2006	Baker
			7,090,453 B2	8/2006	Lin

(56)

References Cited

U.S. PATENT DOCUMENTS

7,156,600 B2	1/2007	Panasik et al.	9,260,870 B2	2/2016	Vermeulen et al.
7,165,481 B2	1/2007	Kikuchi	9,347,469 B2	5/2016	Pervan et al.
7,168,213 B2	1/2007	Rudduck et al.	9,347,470 B2	5/2016	Maertens et al.
7,231,854 B2	6/2007	Kikuchi	9,366,036 B2	6/2016	Pervan
D547,169 S *	7/2007	Harris D8/382	D762,106 S *	7/2016	Lo D8/349
D557,130 S	12/2007	Kashikura et al.	9,388,584 B2	7/2016	Pervan et al.
D557,131 S	12/2007	Liu	D762,456 S *	8/2016	Lo D8/349
D564,871 S *	3/2008	Pitcher D8/395	9,428,919 B2	8/2016	Pervan et al.
7,344,057 B2	3/2008	Dion et al.	9,458,634 B2	10/2016	Derelev
D567,644 S	4/2008	Liu	9,476,208 B2	10/2016	Vermeulen et al.
7,398,623 B2	7/2008	Martel et al.	9,822,809 B2	11/2017	Shadwell et al.
7,424,840 B1	9/2008	Huang	9,874,032 B1	1/2018	Chen
7,454,996 B2	11/2008	Hsu	9,976,312 B2	5/2018	Boschian
D581,776 S	12/2008	Yin-Feng	D821,853 S *	7/2018	Mikkelsen D8/354
7,487,699 B2	2/2009	Xu	10,113,306 B2	10/2018	Brigham et al.
D592,946 S *	5/2009	Johnson D8/386	10,214,896 B2	2/2019	Tebo
7,533,500 B2	5/2009	Morton et al.	D843,806 S *	3/2019	Brigham D8/71
7,546,717 B2	6/2009	Juan Puerta	D850,897 S *	6/2019	Vandenberg D8/382
7,578,105 B2	8/2009	Eberle, III	D850,898 S *	6/2019	Vandenberg D8/382
7,600,353 B2	10/2009	Hafner	10,378,218 B2 *	8/2019	Vandenberg F16B 5/0088
D604,153 S	11/2009	Wantz	D861,471 S *	10/2019	Lid D8/394
7,682,118 B2	3/2010	Gong et al.	10,494,820 B1 *	12/2019	Chen E04F 15/02005
7,682,119 B2	3/2010	Chen	10,605,288 B2 *	3/2020	Martel F16B 12/00
7,695,228 B2	4/2010	Craven	D880,285 S *	4/2020	Olenick D8/399
D614,942 S	5/2010	Gaudron	D904,861 S *	12/2020	McWilliams D8/354
7,721,503 B2	5/2010	Pervan et al.	2003/0019174 A1	1/2003	Bolduc
D619,880 S *	7/2010	MacDonald E04F 13/12 D8/354	2003/0121226 A1	7/2003	Bolduc
7,779,765 B2	8/2010	Donnell, Jr. et al.	2003/0154662 A1	8/2003	Bruchu et al.
7,805,902 B2	10/2010	Martel	2003/0235483 A1	12/2003	Chen
7,841,145 B2	11/2010	Pervan et al.	2004/0045244 A1	3/2004	Hafner
7,841,150 B2	11/2010	Pervan	2004/0141827 A1	7/2004	Dicke
7,866,236 B2	1/2011	Hsu	2004/0168382 A1	9/2004	Rudduck et al.
RE42,207 E	3/2011	Janusz	2004/0237460 A1	12/2004	Green
D634,186 S	3/2011	Kemper	2005/0003160 A1	1/2005	Chen et al.
7,908,816 B2	3/2011	Grafenauer et al.	2005/0257473 A1	11/2005	Shaw et al.
D637,071 S	5/2011	Gaudron et al.	2005/0265806 A1	12/2005	Craven
D637,896 S	5/2011	Dotsey	2005/0278934 A1	12/2005	Orchard
7,950,312 B2	5/2011	Matthiesen et al.	2006/0179757 A1	8/2006	Schulner
7,980,041 B2	7/2011	Pervan et al.	2006/0283122 A1	12/2006	Burgess et al.
7,992,469 B2	8/2011	Chang et al.	2007/0128001 A1	6/2007	Su
D647,393 S	10/2011	Carrillo et al.	2007/0196624 A1	8/2007	Chen et al.
8,042,311 B2	10/2011	Pervan et al.	2007/0217887 A1	9/2007	Lin
8,079,196 B2	12/2011	Pervan	2007/0289249 A1	12/2007	Martel
8,162,196 B2	4/2012	Gasser et al.	2008/0025816 A1	1/2008	Chen et al.
8,192,124 B2	6/2012	Wolpert et al.	2008/0080951 A1	4/2008	Lin
D662,808 S	7/2012	Vandenberg	2008/0222993 A1 *	9/2008	Prichard E04F 15/02005 52/702
8,245,478 B2	8/2012	Bergelin et al.	2008/0240886 A1	10/2008	Martel et al.
8,336,272 B2	12/2012	Prager et al.	2008/0264218 A1	10/2008	Wang et al.
8,348,571 B2	1/2013	Shih	2008/0276761 A1	11/2008	Hale et al.
8,359,805 B2	1/2013	Pervan et al.	2008/0279654 A1	11/2008	Deschamps
8,360,702 B2	1/2013	Yu	2008/0296341 A1	12/2008	Francescon
8,382,414 B2	2/2013	Vandenberg	2009/0108719 A1	4/2009	Lilly
D677,147 S	3/2013	Vandenberg	2009/0142159 A1	6/2009	Wolpert et al.
8,387,327 B2	3/2013	Pervan	2009/0173032 A1	7/2009	Prager et al.
8,480,343 B2	7/2013	Vandenberg	2009/0193741 A1	8/2009	Cappelle
8,499,521 B2	8/2013	Pervan et al.	2009/0217495 A1	9/2009	Tipps et al.
8,511,031 B2	8/2013	Bergelin et al.	2009/0249730 A1	10/2009	Vibiano
8,544,230 B2	10/2013	Pervan	2009/0314143 A1	12/2009	Chen
8,627,862 B2	1/2014	Pervan et al.	2010/0050556 A1	3/2010	Burns
8,650,826 B2	2/2014	Pervan et al.	2010/0083610 A1	4/2010	King
8,677,714 B2	3/2014	Pervan	2010/0107524 A1	5/2010	Moss
8,713,886 B2	5/2014	Pervan et al.	2010/0257806 A1 *	10/2010	Snell E04F 15/04 52/483.1
8,733,065 B2	5/2014	Pervan	2010/0260962 A1	10/2010	Chen et al.
8,763,341 B2	7/2014	Pervan	2010/0319290 A1	12/2010	Pervan et al.
8,769,905 B2	7/2014	Pervan et al.	2011/0167744 A1	7/2011	Whispell et al.
8,826,622 B2	9/2014	Cappelle et al.	2011/0167757 A1	7/2011	Vandenberg
8,887,468 B2	11/2014	Hakansson et al.	2011/0225922 A1	9/2011	Pervan et al.
8,925,274 B2	1/2015	Darko et al.	2011/0232430 A1	9/2011	Hale
8,991,055 B2	3/2015	Cappelle	2012/0000327 A1	1/2012	Park
9,145,691 B2	9/2015	Cappelle	2012/0048909 A1	3/2012	Gensmann et al.
9,212,493 B2	12/2015	Cappelle et al.	2012/0073410 A1	3/2012	Hoffman et al.
9,216,541 B2	12/2015	Boo et al.	2012/0255158 A1	10/2012	Kawasaki
9,222,267 B2	12/2015	Bergelin et al.	2013/0014465 A1 *	1/2013	Kilgore E04F 15/02183 52/650.3
9,238,917 B2	1/2016	Pervan et al.	2013/0025230 A1	1/2013	Turner
			2013/0051955 A1	2/2013	Su et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2013/0104493 A1* 5/2013 Orchard E04F 15/02044
52/704

2013/0287484 A1 10/2013 Phillips

2013/0340377 A1 12/2013 Shadwell

2014/0290173 A1 10/2014 Hamberger

2014/0305064 A1 10/2014 Baker et al.

2015/0211558 A1 7/2015 Garrison

2015/0275951 A1* 10/2015 Shadwell F16B 15/08
411/511

2017/0037643 A1 2/2017 Mitchell

2017/0114536 A1* 4/2017 Tebo E04B 5/12

2017/0138063 A1 5/2017 Boschian

2017/0314278 A1 11/2017 Lee et al.

2017/0321434 A1* 11/2017 Shadwell E04F 15/02183

2017/0362815 A1 12/2017 Brigham et al.

2018/0010627 A1* 1/2018 Shadwell E04B 1/003

2018/0135673 A1* 5/2018 Binkert F16B 37/02

2018/0141134 A1* 5/2018 Brigham B23B 47/28

2018/0238060 A1 8/2018 Doupe et al.

2019/0055738 A1* 2/2019 Vandenberg F16B 5/0088

2019/0055974 A1* 2/2019 Vandenberg E04F 15/02044

2019/0211856 A1* 7/2019 Getsiv F16B 2/245

2019/0360214 A1* 11/2019 Vandenberg E04F 15/02044

2020/0217084 A1* 7/2020 Ylikangas E04F 15/02005

2020/0340252 A1* 10/2020 Carlson E04F 15/02183

FOREIGN PATENT DOCUMENTS

DE 4228727 3/1994

DE 4331689 3/1994

EP 0482363 4/1992

EP 1187993 3/2002

EP 1595627 11/2005

EP 1920890 5/2008

EP 1932623 6/2008

EP 1938928 7/2008

EP 2258518 12/2010

EP 2397706 12/2011

EP 2076362 3/2012

EP 2995744 3/2016

EP 3150083 4/2017

FR 2968366 6/2012

GB 1009630 11/1965

JP 7217625 8/1995

JP 10329049 12/1998

JP 2000257616 9/2000

JP 2004308732 11/2004

WO 1997017505 5/1997

WO 1997042420 11/1997

WO 1999067541 12/1999

WO 2007091487 8/2007

OTHER PUBLICATIONS

Deck Spacers, downloaded from <http://www.contractortalk.com/f50/spacers-cleats-simpson-worth-anything-82833/> (viewed Jun. 8, 2017).

Fiberon DeckPilot Mar. 2009.

Fiberon DeckPilot Dec. 2009.

<http://www.woodworkersjournal.com/todays-wood-screw-technology-2/> downloaded Feb. 23, 2018.

<http://www.starbornindustries.com/cap-tor-xd-product> downloaded Feb. 26, 2018.

* cited by examiner

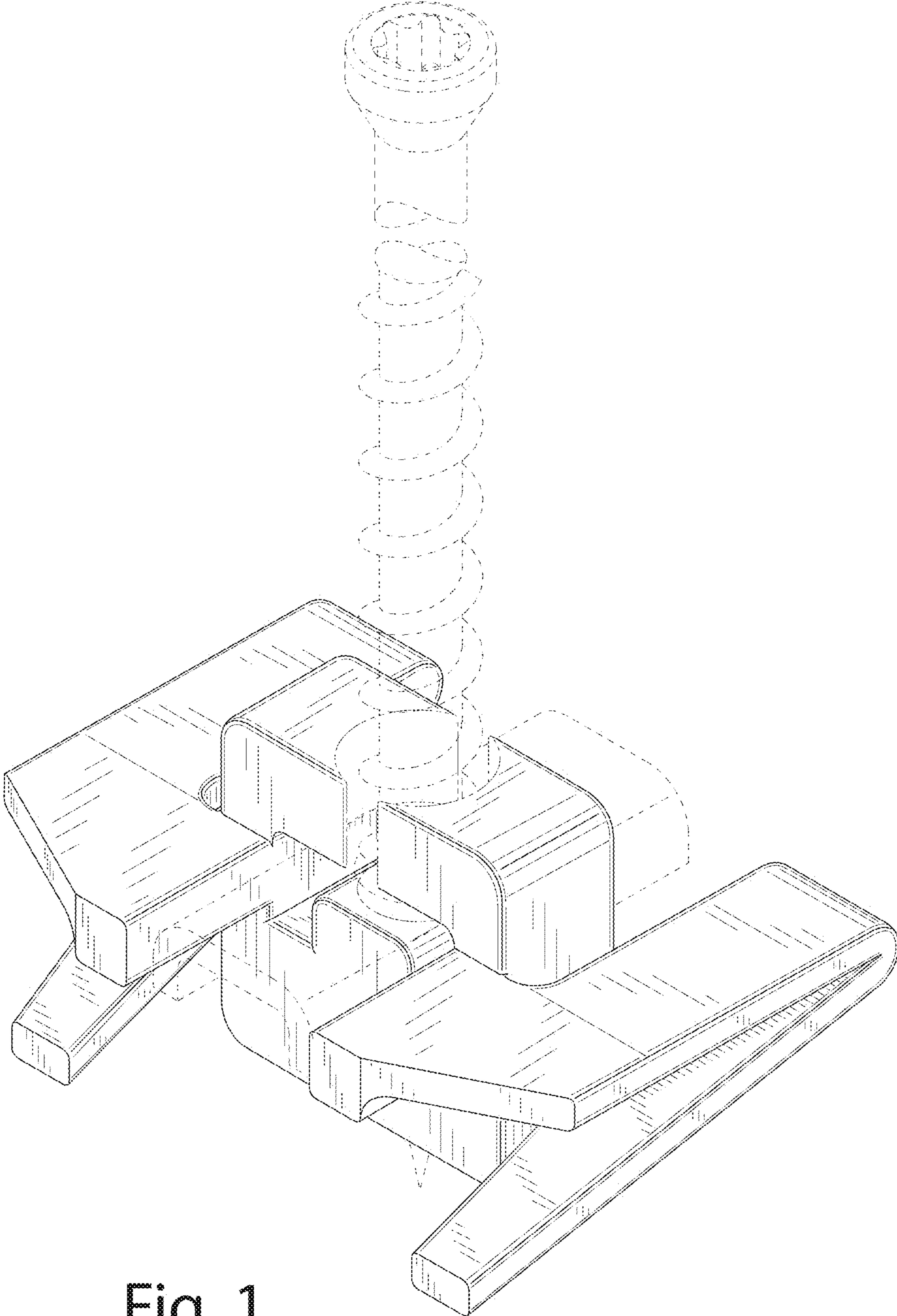


Fig. 1

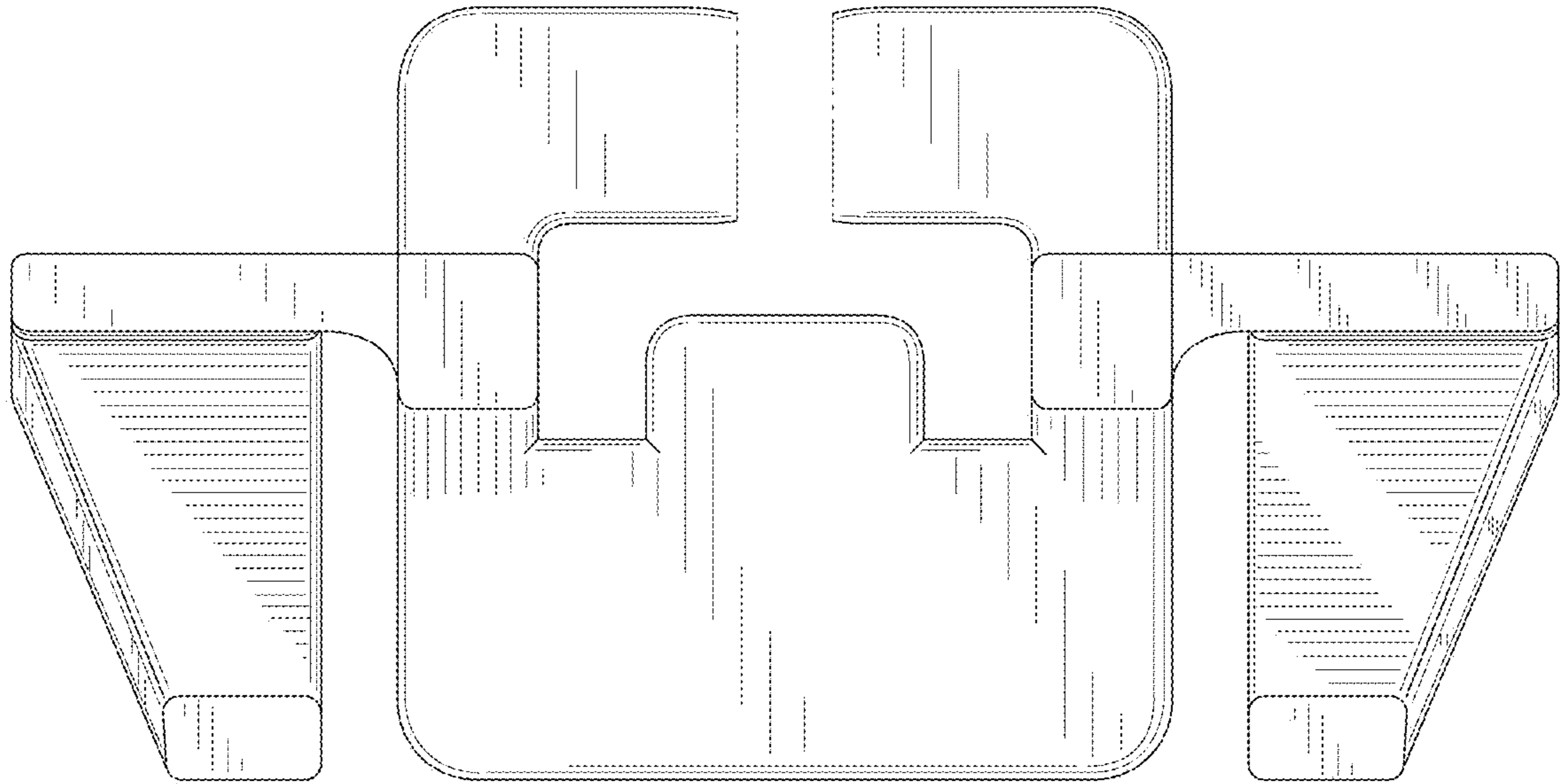


Fig. 2

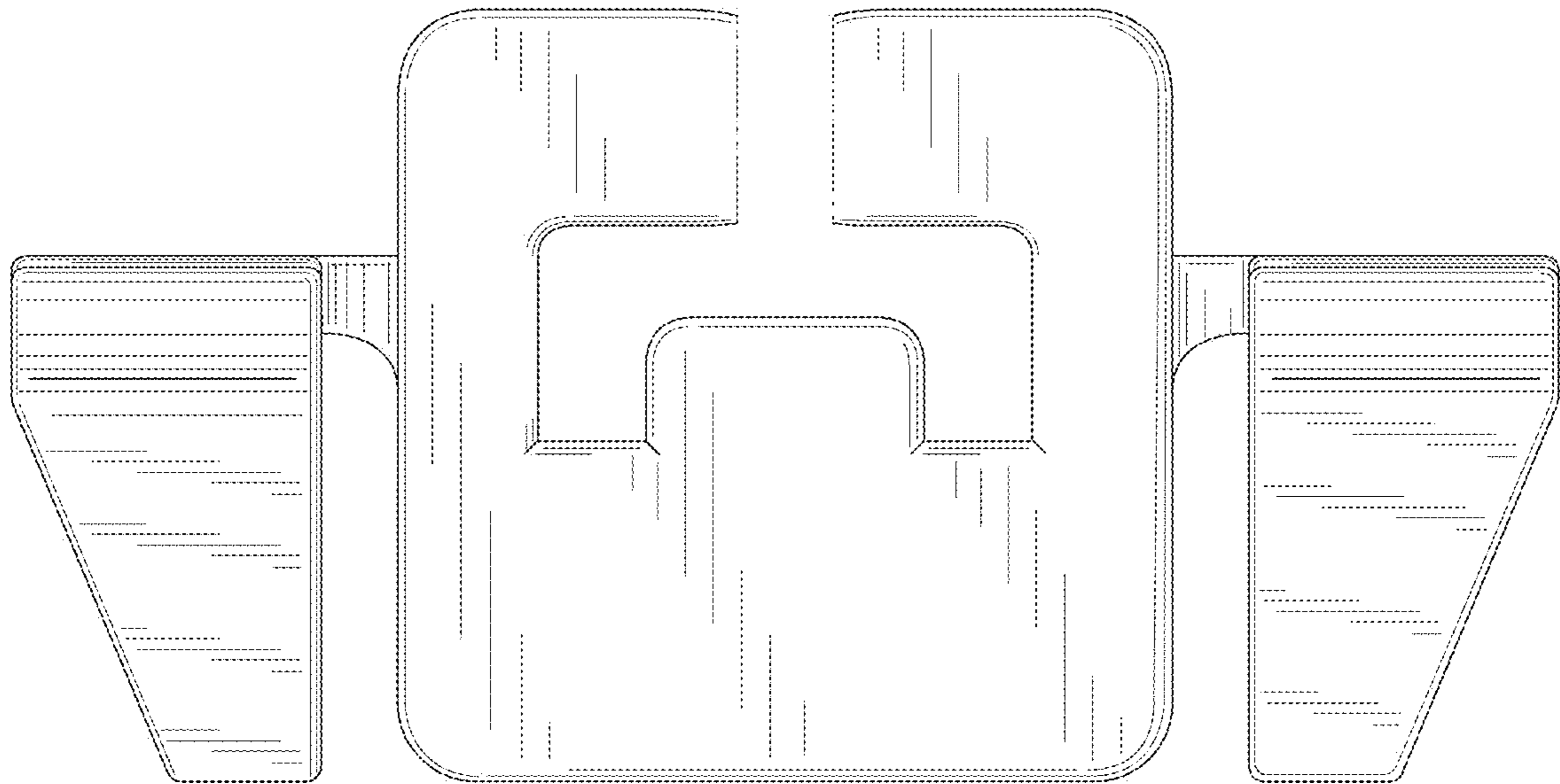


Fig. 3

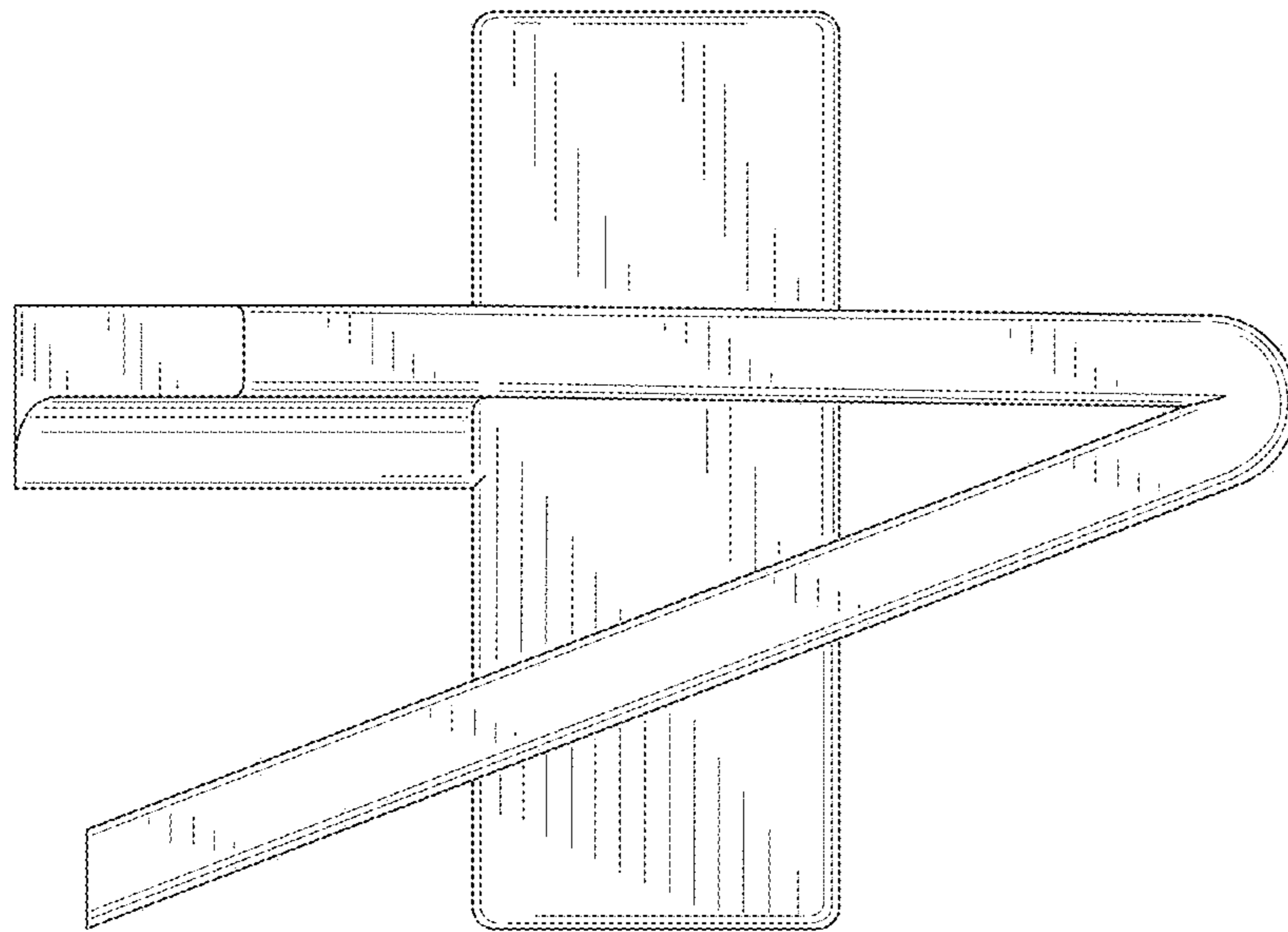


Fig. 4

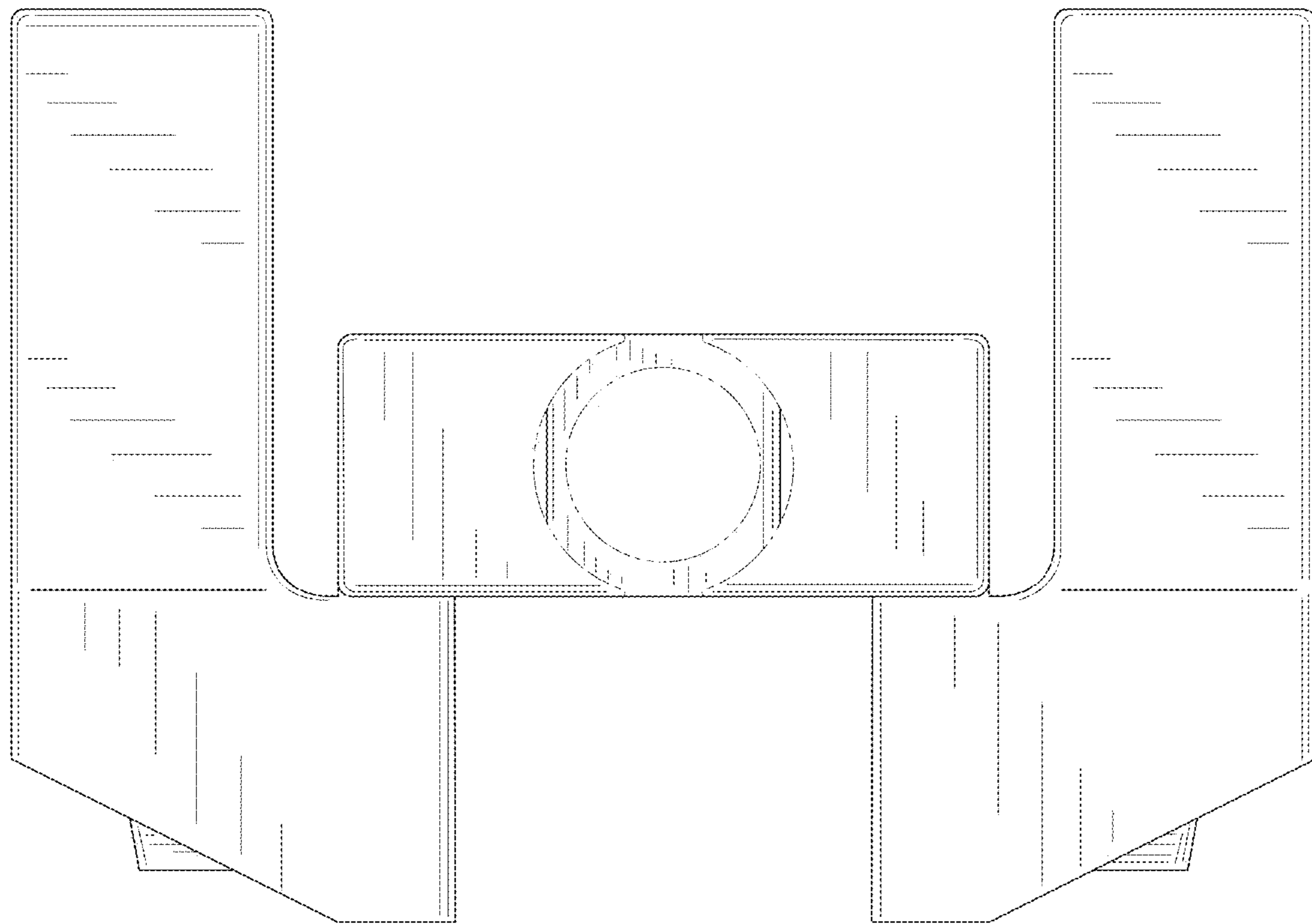


Fig. 5

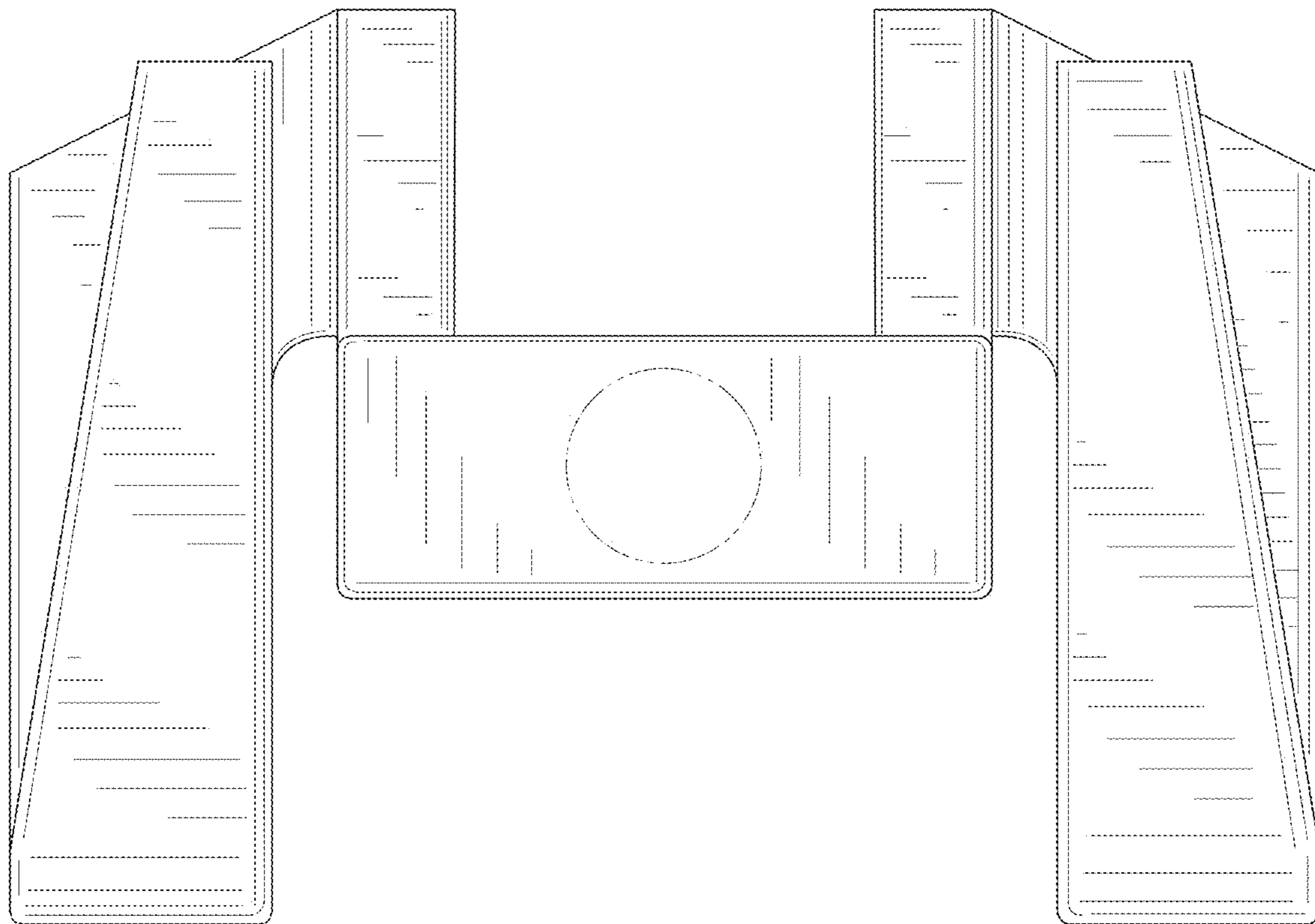


Fig. 6