



US00D880612S

(12) **United States Design Patent** (10) **Patent No.:** **US D880,612 S**
Bernard et al. (45) **Date of Patent:** **** Apr. 7, 2020**

(54) **GAMING MACHINE**

FOREIGN PATENT DOCUMENTS

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AU 201811904 4/2018
AU 201811905 4/2018

(Continued)

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OTHER PUBLICATIONS

AU Optronics Corp.; News Center. "AUO Announces Multiple Upcoming Innovations"; Oct. 27, 2008; retrieved from <<http://www.auo.com/?sn=107&lang=en-US&c=10&n=363>> on Mar. 3, 2017 (2 pages).

(Continued)

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

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(21) Appl. No.: **29/657,678**

(57) **CLAIM**

(22) Filed: **Jul. 24, 2018**

The ornamental design for a gaming machine, as shown and described.

(51) **LOC (12) Cl.** **21-03**

(52) **U.S. Cl.**

USPC **D21/369**

(58) **Field of Classification Search**

USPC D21/369, 370, 371, 385, 329, 325, 394;
D14/307, 172, 129, 325, 401, 371, 126,
D14/439, 432, 450, 128, 375, 248, 374,
D14/341, 138 G, 127; 463/28, 13, 11,
463/16, 20, 25, 31, 46, 23, 30, 17, 36, 29,
463/42, 34, 32, 35, 19, 21, 22; 273/292,
273/203, 138.2, 143 R, 142 R, 138.1;
D19/60; D16/226; D8/335, 331, 334;
D26/141; D7/641

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DESCRIPTION

FIG. 1 is a front perspective view of a gaming machine showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a top view thereof; and,
FIG. 6 is an enlarged detailed perspective view of FIG. 1 with environmental subject matter removed for clarity.
The broken lines immediately adjacent to a shaded area define the bounds of the claimed design and form no part thereof. The curved oblique line shading shows that the surface is a transparent, translucent, highly polished or reflective surface. The broken lines depicting the remainder of the gaming machine illustrate environmental structure and form no part of the claimed design.

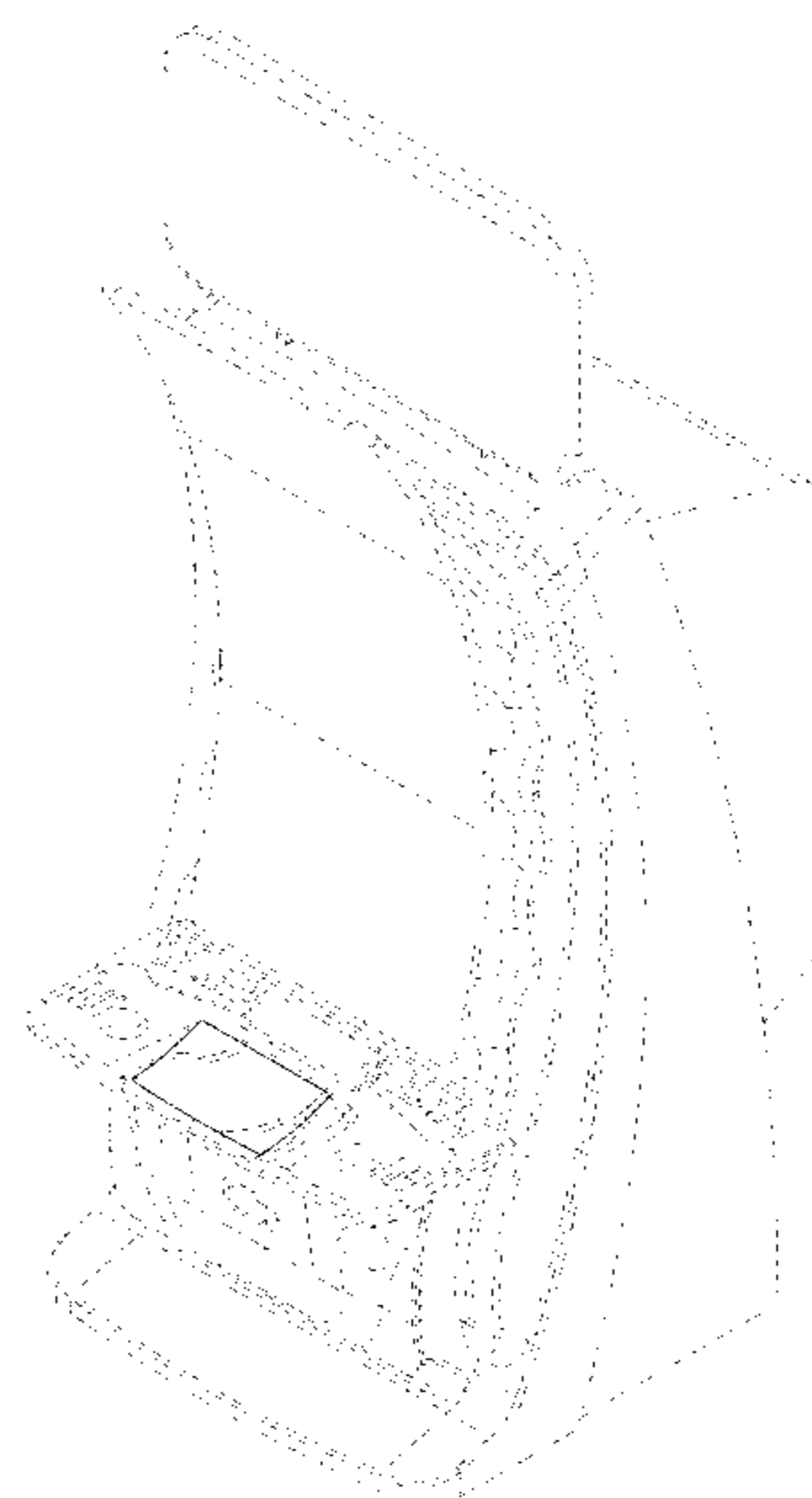
(56) **References Cited**

U.S. PATENT DOCUMENTS

2,661,954 A 12/1953 Koci
D236,720 S 9/1975 Baker

(Continued)

1 Claim, 6 Drawing Sheets



(58) **Field of Classification Search**
 CPC G07F 17/32; G07F 17/34; G07F 17/3211;
 G07F 17/3244; G07F 17/3267
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D238,379 S 1/1976 Miller
 4,046,419 A 9/1977 Schmitt
 D264,485 S 5/1982 Kitchen
 4,372,557 A 2/1983 Del Principe et al.
 4,373,725 A 2/1983 Ritchie
 D275,772 S 10/1984 Akopian et al.
 D280,835 S 10/1985 Berge et al.
 D280,836 S 10/1985 Ludzia et al.
 4,606,545 A 8/1986 Ritchie
 4,705,274 A 11/1987 Lubeck
 4,840,343 A 6/1989 Gasser
 4,861,037 A 8/1989 Oursler
 D307,771 S * 5/1990 Cesaroni D21/370
 4,930,117 A 5/1990 Huggins
 4,981,298 A 1/1991 Lawlor et al.
 D315,110 S 3/1991 Slater
 5,015,189 A 5/1991 Wenzinger
 D318,660 S 7/1991 Weber
 5,074,558 A 12/1991 Bleich et al.
 5,083,738 A 1/1992 Infanti
 5,091,677 A 2/1992 Bleich et al.
 5,102,192 A 4/1992 Barile, Sr.
 5,110,120 A 5/1992 Smolucha
 5,114,112 A 5/1992 Infanti
 5,120,058 A 6/1992 Trudeau et al.
 5,123,647 A 6/1992 Lawlor et al.
 5,143,055 A 9/1992 Eakin
 5,149,094 A 9/1992 Tastad
 D333,164 S 2/1993 Kraft et al.
 5,193,807 A 3/1993 Schilling et al.
 5,195,746 A 3/1993 Boyd et al.
 D335,150 S 4/1993 Biagi et al.
 5,226,653 A 7/1993 Bil et al.
 5,232,191 A 8/1993 Infanti
 5,290,034 A 3/1994 Hineman
 5,297,793 A 3/1994 DeMar et al.
 5,316,303 A 5/1994 Trudeau et al.
 5,322,283 A 6/1994 Ritchie et al.
 5,326,104 A 7/1994 Pease et al.
 5,350,174 A 9/1994 Ritchie et al.
 D351,869 S 10/1994 Rothschild et al.
 5,351,954 A 10/1994 Oursler et al.
 5,357,104 A 10/1994 Bleich
 5,358,241 A 10/1994 Anghelo et al.
 5,358,242 A 10/1994 Trudeau et al.
 5,358,243 A 10/1994 Eddy et al.
 D352,738 S 11/1994 Anghelo et al.
 5,383,663 A 1/1995 Anghelo et al.
 5,405,144 A 4/1995 Ritchie et al.
 5,409,296 A 4/1995 Barile
 5,411,257 A 5/1995 Fulton
 5,415,402 A 5/1995 Morrison et al.
 5,415,403 A 5/1995 Ritchie et al.
 5,417,423 A 5/1995 Oursler et al.
 5,417,425 A 5/1995 Blumberg et al.
 5,437,453 A 8/1995 Hineman
 5,465,963 A 11/1995 Patla, Sr.
 5,472,197 A 12/1995 Gwiasda et al.
 5,494,286 A 2/1996 DeMar et al.
 5,507,488 A 4/1996 Eddy et al.
 5,511,783 A 4/1996 Popadiuk et al.
 5,516,103 A 5/1996 Lawlor et al.
 5,522,641 A 6/1996 Infanti
 5,524,887 A 6/1996 Trudeau et al.
 5,533,726 A 7/1996 Nordman et al.
 5,542,748 A 8/1996 Barile
 D376,391 S 12/1996 Okumura
 5,580,052 A 12/1996 Popadiuk et al.
 D378,604 S * 3/1997 Brettschneider D21/370

5,632,482 A 5/1997 Anghelo
 D380,014 S 6/1997 Yang
 D381,700 S * 7/1997 Brettschneider D21/370
 5,655,965 A 8/1997 Takemoto et al.
 5,664,777 A 9/1997 Nordman et al.
 5,669,818 A 9/1997 Thorner et al.
 5,678,886 A 10/1997 Infanti
 D388,469 S * 12/1997 Dickenson D21/325
 5,697,612 A 12/1997 Piotrowski et al.
 5,704,835 A 1/1998 Dietz, II
 5,707,059 A 1/1998 Sullivan et al.
 5,720,480 A 2/1998 Lawlor et al.
 D395,463 S 6/1998 Scott et al.
 5,762,617 A 6/1998 Infanti
 5,791,731 A 8/1998 Infanti
 5,806,851 A 9/1998 Gomez et al.
 5,820,460 A 10/1998 Fulton
 5,833,236 A 11/1998 Oursler et al.
 D405,473 S 2/1999 Tikhonski et al.
 D406,612 S * 3/1999 Johnson D21/327
 D407,759 S 4/1999 Isetani et al.
 D408,366 S 4/1999 Popadiuk
 5,890,715 A 4/1999 Gomez et al.
 5,899,454 A 5/1999 Eddy et al.
 5,924,690 A 7/1999 Kopera et al.
 5,934,672 A 8/1999 Sines et al.
 5,938,195 A 8/1999 Anghelo et al.
 5,944,309 A 8/1999 Popadiuk et al.
 D417,145 S 11/1999 McLaughlin
 5,984,782 A 11/1999 Inoue
 6,000,697 A 12/1999 Popadiuk et al.
 D419,201 S 1/2000 de Haas
 D419,606 S 1/2000 Toriyama
 6,036,188 A 3/2000 Gomez et al.
 6,047,962 A 4/2000 Popadiuk
 6,047,963 A 4/2000 Pierce et al.
 D424,122 S * 5/2000 Dickenson D21/325
 6,071,190 A 6/2000 Weiss et al.
 D428,062 S 7/2000 Hayashi
 6,089,663 A 7/2000 Hill
 D428,864 S * 8/2000 Rooyackers D14/306
 6,102,394 A 8/2000 Wurz et al.
 6,113,097 A 9/2000 Krutsch et al.
 6,117,010 A 9/2000 Canterbury et al.
 6,120,021 A 9/2000 Piotrowski et al.
 6,129,353 A 10/2000 DeMar et al.
 6,129,355 A 10/2000 Hahn et al.
 6,135,449 A 10/2000 Cornell et al.
 6,135,562 A 10/2000 Infanti
 6,149,153 A 11/2000 Sheats, Jr.
 6,155,565 A 12/2000 Gomez et al.
 6,155,925 A 12/2000 Giobbi et al.
 6,158,737 A 12/2000 Cornell et al.
 6,159,098 A 12/2000 Slomiany et al.
 6,164,644 A 12/2000 Cornell et al.
 6,173,955 B1 1/2001 Perrie et al.
 6,199,861 B1 3/2001 Hume et al.
 D439,931 S 4/2001 Yamaguchi
 6,210,279 B1 4/2001 Dickinson
 6,224,482 B1 5/2001 Bennett
 6,227,614 B1 5/2001 Rubin
 6,227,970 B1 5/2001 Shimizu et al.
 D443,313 S 6/2001 Brettschneider
 D446,252 S 8/2001 Yamaguchi
 6,283,546 B1 9/2001 Hill
 6,290,229 B1 9/2001 Perez
 D450,094 S 11/2001 Hedrick et al.
 6,334,612 B1 1/2002 Wurz et al.
 6,354,660 B1 3/2002 Friedrich
 D459,402 S 6/2002 Wurz et al.
 D460,915 S * 7/2002 Lynch D21/329
 6,422,670 B1 7/2002 Hedrick et al.
 6,422,941 B1 7/2002 Thorner et al.
 6,439,993 B1 8/2002 O'Halloran
 D463,504 S 9/2002 Stephan
 D464,377 S 10/2002 Wurz et al.
 D465,813 S 11/2002 Randall
 D466,160 S 11/2002 Hirato et al.
 D467,977 S 12/2002 Gatto et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D468,364 S	1/2003	Beadell et al.	
6,530,842 B1	3/2003	Wells et al.	
6,530,872 B2	3/2003	Frehland et al.	
6,572,187 B2	6/2003	Laufer	
6,589,114 B2	7/2003	Rose	
6,609,972 B2	8/2003	Seelig et al.	
6,616,142 B2	9/2003	Adams	
6,620,047 B1	9/2003	Alcorn et al.	
D481,078 S	10/2003	Stephan	
6,646,695 B1	11/2003	Gauselmann	
6,652,378 B2	11/2003	Cannon et al.	
D483,075 S	12/2003	Kang	
D484,548 S	12/2003	Franco Munoz et al.	
D485,583 S	1/2004	Porto	
6,695,697 B1 *	2/2004	Okada	G07F 17/32 273/143 R
6,715,756 B2	4/2004	Inoue	
6,729,618 B1	5/2004	Koenig et al.	
D492,363 S	6/2004	Seelig et al.	
D492,364 S	6/2004	Seelig et al.	
D492,365 S	6/2004	Munoz et al.	
D492,676 S *	7/2004	Monson	D14/306
D493,843 S	8/2004	Jackson, Sr. et al.	
D493,846 S	8/2004	Seelig et al.	
D495,754 S	9/2004	Wurz et al.	
D495,755 S *	9/2004	Wurz	D21/325
D496,407 S *	9/2004	Gadda	D21/325
D498,267 S	11/2004	Crouch	
D500,098 S	12/2004	Doi	
6,880,825 B2	4/2005	Seelig et al.	
D505,162 S	5/2005	Bristol et al.	
D508,268 S	8/2005	Hanchar et al.	
D508,269 S	8/2005	Wichinsky	
D508,719 S	8/2005	de Haas	
D508,961 S	8/2005	Gatto et al.	
D509,254 S	9/2005	Rasmussen et al.	
D509,255 S	9/2005	Bristol et al.	
D512,105 S	11/2005	Chitrapongse et al.	
D513,511 S	1/2006	Decombe	
D515,144 S	2/2006	Boyd	
6,997,810 B2	2/2006	Cole	
D520,504 S *	5/2006	Martin	D14/305
7,063,615 B2	6/2006	Alcorn et al.	
7,108,237 B2	9/2006	Gauselmann	
D531,677 S	11/2006	Mallory et al.	
7,184,277 B2	2/2007	Beime	
D537,885 S	3/2007	Gadda et al.	
D539,854 S	4/2007	Luciano et al.	
D540,398 S	4/2007	Gadda et al.	
D546,893 S	7/2007	Yamashita	
7,247,098 B1	7/2007	Bradford et al.	
D548,801 S	8/2007	Groswirt	
D549,785 S	8/2007	Luciano, Jr. et al.	
7,267,612 B2	9/2007	Alcorn et al.	
D554,710 S	11/2007	Malone et al.	
D556,765 S	12/2007	Evans et al.	
D557,348 S *	12/2007	Gutknecht	D21/370
D557,748 S	12/2007	Jumper	
7,311,597 B2	12/2007	Thomas	
D559,328 S	1/2008	Rasmussen et al.	
D559,917 S	1/2008	Cole	
D560,724 S	1/2008	Johnson	
D560,725 S	1/2008	Johnson	
D563,326 S	3/2008	Patel et al.	
D563,481 S	3/2008	Looks et al.	
D564,600 S	3/2008	Greenberg et al.	
D564,601 S	3/2008	Strahinic et al.	
D566,197 S	4/2008	Greenberg et al.	
D569,863 S	5/2008	Feldstein et al.	
D572,314 S	7/2008	Vallejo et al.	
D578,168 S	10/2008	Looks et al.	
D581,983 S	12/2008	Bergstrom	
RE40,625 E	1/2009	Wurz et al.	
7,479,066 B2	1/2009	Emori	
D586,866 S *	2/2009	Hsu	D21/370
D587,272 S	2/2009	Morrow et al.	
D587,319 S	2/2009	Moises Deiab	
RE40,671 E	3/2009	Wurz et al.	
7,503,849 B2	3/2009	Hornik et al.	
D590,025 S	4/2009	Fiore	
D592,709 S *	5/2009	McComb	D21/370
D594,068 S	6/2009	Hsu	
D596,678 S *	7/2009	Myers	D21/370
D599,365 S	9/2009	Brown et al.	
D599,858 S	9/2009	Lesley et al.	
D599,859 S *	9/2009	Lesley	D21/370
D599,860 S	9/2009	Lesley et al.	
D601,637 S	10/2009	Myers et al.	
D601,638 S	10/2009	Palmisano	
D604,368 S	11/2009	Lesley et al.	
D605,189 S *	12/2009	Kuroda	D14/307
D605,231 S *	12/2009	Hashimoto	D21/325
7,628,693 B2	12/2009	Thomas	
7,666,085 B2	2/2010	Vorias et al.	
D612,432 S *	3/2010	De Viveiros Ortiz	D21/325
7,686,689 B2	3/2010	Thomas	
D613,802 S *	4/2010	Meyers	D21/370
7,690,976 B2	4/2010	Edidin et al.	
D615,598 S	5/2010	McComb et al.	
D616,036 S *	5/2010	Cha	D21/325
D616,039 S *	5/2010	Bruzzese	D21/370
7,713,119 B2	5/2010	Pacey et al.	
D619,177 S *	7/2010	Lee	D21/325
D622,780 S	8/2010	Lesley et al.	
D622,781 S	8/2010	Lesley et al.	
D622,782 S	8/2010	Chudek et al.	
D623,621 S *	9/2010	Roed	D14/127
D624,604 S	9/2010	Wudtke	
D625,368 S	10/2010	Nelson et al.	
D626,182 S	10/2010	Cole et al.	
D626,183 S	10/2010	Cole et al.	
7,811,167 B2	10/2010	Giobbi et al.	
D631,060 S	1/2011	Flik et al.	
D631,100 S	1/2011	Palmisano	
D633,950 S	3/2011	Terpstra et al.	
D637,238 S	5/2011	O'Keene et al.	
D637,652 S	5/2011	Tahara et al.	
7,938,728 B2	5/2011	Vetter et al.	
7,955,176 B2	6/2011	Tastad et al.	
D641,047 S	7/2011	Tahara et al.	
7,976,393 B2	7/2011	Haga et al.	
7,985,139 B2	7/2011	Lind et al.	
8,002,424 B2	8/2011	Hwang et al.	
8,002,626 B2	8/2011	Englman	
D646,336 S	10/2011	Kelly et al.	
D646,337 S	10/2011	Kelly et al.	
D646,691 S	10/2011	Thai et al.	
D649,605 S	11/2011	Terpstra et al.	
8,070,610 B2	12/2011	Vetter et al.	
D651,608 S	1/2012	Allen et al.	
8,113,933 B2	2/2012	Thomas	
8,137,192 B2	3/2012	Thomas	
8,152,623 B2	4/2012	Fiden	
8,162,740 B2	4/2012	Aoki	
8,216,061 B2	7/2012	Pacey	
8,226,459 B2	7/2012	Barrett et al.	
8,267,764 B1	9/2012	Aoki et al.	
8,272,952 B2	9/2012	Manning et al.	
D669,076 S	10/2012	Haller	
8,292,451 B2	10/2012	Hwang et al.	
8,303,420 B2	11/2012	Chudek et al.	
8,305,743 B2	11/2012	Wu et al.	
8,323,114 B2	12/2012	Burak et al.	
D673,620 S	1/2013	Johnson et al.	
D673,621 S *	1/2013	Johnson	D21/369
D673,622 S	1/2013	Wudtke	
8,353,755 B2	1/2013	Vann et al.	
8,371,920 B2	2/2013	Gomez et al.	
8,371,927 B2	2/2013	Englman	
8,371,928 B2	2/2013	Englman et al.	
8,376,832 B2	2/2013	O'Connor et al.	
8,376,842 B2	2/2013	Rasmussen et al.	
D677,736 S *	3/2013	Dorn	D21/370
D678,270 S *	3/2013	Song	D14/341

(56)

References Cited

U.S. PATENT DOCUMENTS

- D678,955 S 3/2013 Lesley et al.
D678,956 S 3/2013 Lesley et al.
D678,957 S 3/2013 Cesaroni et al.
D678,958 S 3/2013 Cesaroni et al.
D681,130 S 4/2013 Lesley et al.
8,430,756 B2 4/2013 McComb et al.
D682,948 S 5/2013 Cesaroni et al.
D684,637 S * 6/2013 Shelley D21/370
D684,639 S * 6/2013 Shelley D21/370
D685,033 S 6/2013 Wudtke
D691,665 S 10/2013 Chudek
D691,666 S 10/2013 Lesley et al.
8,556,706 B2 10/2013 Barney et al.
D693,343 S 11/2013 Haller
D697,558 S * 1/2014 Myers D21/325
D704,273 S 5/2014 Chudek
D704,275 S * 5/2014 Lesley D21/370
D705,872 S * 5/2014 Ortiz D21/370
8,721,419 B2 5/2014 Aoki et al.
D706,359 S 6/2014 Wudtke
D706,741 S 6/2014 Myers
D707,646 S * 6/2014 Kim D14/138 G
D708,676 S * 7/2014 Ballman D14/307
D712,975 S * 9/2014 Lesley D21/369
D713,447 S * 9/2014 Balar D18/4.6
D713,811 S * 9/2014 Isaacs D14/138 AA
D714,269 S * 9/2014 Lee D14/248
D714,270 S * 9/2014 Lee D14/248
D714,271 S * 9/2014 Lee D14/248
D714,392 S * 9/2014 Arabian D21/369
D714,875 S 10/2014 Wudtke et al.
D715,279 S * 10/2014 Lee D14/248
D715,364 S 10/2014 Wudtke et al.
D716,246 S * 10/2014 Yun D14/138 R
D718,818 S * 12/2014 Sumii D14/401
D719,615 S * 12/2014 Inoue D21/370
D719,616 S * 12/2014 Inoue D21/370
D721,767 S * 1/2015 Ferrazoli D21/370
8,982,545 B2 3/2015 Kim et al.
8,986,092 B2 3/2015 Thomas et al.
D726,139 S * 4/2015 Park D14/138 R
D726,140 S * 4/2015 Park D14/138 R
D726,678 S * 4/2015 Park D14/138 R
D727,431 S * 4/2015 Themann D21/370
D730,993 S * 6/2015 Castro D21/370
D732,520 S * 6/2015 Themann D14/307
D733,088 S * 6/2015 Garneau D14/172
9,058,717 B2 6/2015 Aoki et al.
D736,751 S * 8/2015 Lee D14/248
D736,752 S * 8/2015 Lee D14/248
D740,887 S * 10/2015 Randazzo D21/370
D740,888 S 10/2015 DePalma et al.
D742,974 S * 11/2015 Lesley D21/369
D742,975 S * 11/2015 Myers D21/370
D747,763 S * 1/2016 Haller D18/4.5
9,269,233 B2 2/2016 Aoki et al.
D752,573 S * 3/2016 Ballman D14/307
D760,846 S * 7/2016 Castro D21/370
D762,613 S * 8/2016 Garneau D14/172
RE46,169 E 10/2016 Kelly et al.
D770,449 S * 11/2016 Bae D14/341
D770,450 S * 11/2016 Bae D14/341
D770,998 S * 11/2016 Kwak D14/138 AB
D771,628 S * 11/2016 Bae D14/341
D776,112 S * 1/2017 Bae D14/374
9,542,814 B2 1/2017 Daniels
9,547,958 B2 1/2017 Cole et al.
D786,859 S * 5/2017 Kim D14/341
9,679,435 B2 * 6/2017 Schrementi G07F 17/3213
D792,384 S * 7/2017 Kim D14/248
D795,855 S * 8/2017 Kim D14/248
D797,713 S * 9/2017 Kim D14/248
D801,435 S * 10/2017 Themann D21/369
D801,945 S * 11/2017 Cho D14/138 G
D802,590 S * 11/2017 Bae D14/374
D802,591 S * 11/2017 Bae D14/374
D803,323 S * 11/2017 Bussey D21/369
D803,324 S * 11/2017 Bussey D21/370
D803,818 S * 11/2017 Kim D14/248
D805,065 S * 12/2017 Taylor D14/307
D806,159 S * 12/2017 Haller D18/4.5
D808,354 S * 1/2018 Castro D14/127
D808,467 S * 1/2018 Huang D21/369
D809,068 S * 1/2018 Ballman D21/369
D809,069 S * 1/2018 Ballman D21/369
D811,384 S * 2/2018 Diasabeygunawardena
D812,145 S * 3/2018 Huang D21/369
D812,146 S * 3/2018 Castro D21/369
D812,147 S 3/2018 Castro et al.
D812,148 S * 3/2018 Castro D21/369
D812,149 S 3/2018 Castro et al.
D818,048 S * 5/2018 Calhoun D21/369
D818,524 S * 5/2018 Dong D18/4.4
D819,747 S * 6/2018 Castro D21/369
D832,355 S * 10/2018 Castro D21/369
D832,356 S * 10/2018 Castro D21/369
D832,357 S * 10/2018 Castro D21/369
D836,164 S * 12/2018 Castro D21/369
D836,720 S * 12/2018 Kang D19/113
10,181,236 B2 * 1/2019 Goldstein G07F 17/3216
D842,929 S * 3/2019 Hung D21/325
D842,930 S * 3/2019 Johnson D21/369
D842,933 S * 3/2019 Castro D21/396
D843,458 S * 3/2019 Castro D21/369
D843,459 S * 3/2019 Castro D21/369
D843,460 S * 3/2019 Castro D21/369
D843,461 S * 3/2019 Castro D21/369
D843,465 S * 3/2019 Castro D21/369
D843,467 S * 3/2019 Johnson D21/369
D843,468 S * 3/2019 Johnson D21/369
D843,474 S * 3/2019 Lesley D21/369
D843,475 S * 3/2019 Lesley D21/369
D843,476 S * 3/2019 Lesley D21/369
D843,477 S * 3/2019 Lesley D21/369
D843,478 S * 3/2019 Lesley D21/369
D843,479 S * 3/2019 Castro D21/369
D843,480 S * 3/2019 Castro D21/369
D843,482 S * 3/2019 Holland D21/396
D843,866 S * 3/2019 Mutch D10/87
D844,062 S * 3/2019 Lesley D21/369
D849,149 S * 5/2019 Bussey D21/369
D849,150 S * 5/2019 Gallagher D21/369
D850,537 S * 6/2019 Urban D21/370
10,325,446 B2 * 6/2019 Castro G07F 17/322
D852,890 S * 7/2019 Ross D21/370
D854,620 S * 7/2019 Yeh D21/369
D854,621 S * 7/2019 Calhoun D21/369
D858,641 S * 9/2019 Legras D21/370
D858,642 S * 9/2019 Legras D21/370
2002/0041069 A1 4/2002 Steelman
2003/0122973 A1 7/2003 Huang
2004/0018877 A1 1/2004 Tastad et al.
2004/0029631 A1 2/2004 Duhamel
2004/0053662 A1 3/2004 Pacey
2005/0014547 A1 1/2005 Gomez et al.
2006/0009284 A1 1/2006 Schwartz et al.
2006/0028159 A1 2/2006 Otomo et al.
2006/0034042 A1 2/2006 Hisano et al.
2006/0079316 A1 4/2006 Flemming et al.
2006/0131810 A1 6/2006 Nicely
2006/0183553 A1 8/2006 Kiriya et al.
2006/0199638 A1 9/2006 Walker et al.
2006/0287111 A1 12/2006 Mitchell et al.
2008/0039213 A1 2/2008 Cornell et al.
2008/0051202 A1 2/2008 Lube
2009/0174996 A1 7/2009 Park
2009/0221375 A1 9/2009 Luciano, Jr. et al.
2010/0053231 A1 3/2010 Park
2012/0122569 A1 5/2012 Kowolik et al.
2012/0168058 A1 7/2012 Kim et al.
2013/0180653 A1 7/2013 Kim et al.
2013/0278875 A1 10/2013 Kim et al.
2014/0055696 A1 2/2014 Lee et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0092356	A1	4/2014	Ahn et al.	
2014/0176856	A1	6/2014	Lee et al.	
2014/0226111	A1	8/2014	Kim	
2014/0226112	A1	8/2014	Kim	
2014/0354938	A1	12/2014	Kim	
2014/0368782	A1	12/2014	Kim et al.	
2014/0375963	A1	12/2014	Bishop	
2015/0000823	A1	1/2015	Kim et al.	
2015/0001291	A1*	1/2015	Govindarajan G06Q 20/208 235/380
2015/0036073	A1	2/2015	Im et al.	
2015/0087403	A1*	3/2015	Castro G07F 17/3209 463/25
2015/0116621	A1	4/2015	Park et al.	
2015/0116625	A1	4/2015	Hwang et al.	
2015/0301390	A1	10/2015	Kim	
2016/0070964	A1*	3/2016	Conrad G07G 1/0018 348/150
2018/0078854	A1*	3/2018	Achmueller A63F 13/20
2019/0080547	A1*	3/2019	Urban G07F 17/322

FOREIGN PATENT DOCUMENTS

AU	201811906	4/2018
AU	201811186	5/2018
EP	649 671 A1	4/1995
JP	03210172 B2	9/2001
KR	10-1113734 B1	2/2012
KR	10-2012-0051630	5/2012
KR	10-1268471 B1	6/2013
KR	10-1278904 B1	6/2013
KR	10-1336677 B1	12/2013
KR	10-1381609 B1	4/2014
KR	10-1381610 B1	4/2014
KR	10-2015-0013987	2/2015
KR	10-1539221 B1	7/2015
TW	200949775 A	12/2009

OTHER PUBLICATIONS

Brochure for “Virtual Pinball,” Tab-Austria, 2007 (8 pages).
 Cabinet Brochure for Hydako Co., date estimated as early as 2009 (1 page).
 Catalog for “Your Partner Innovation,” Bally Technologies, date estimated as early as 2011 (4 pages).
 Catalog for Atronic®-Spiel®®, date estimated as early as 2008 (2 pages).
 Cochran; “Why Samsung’s curved-screen TV might be a ‘game changer,’” CBS News; Aug. 14, 2013; retrieved from <http://www.cbsnews.com/news/why-samsungs-curved-screen-tv-might-be-a-game-changer/> (3 pages).
 DailyTech; “AUO Shows Off Curved Display and Touch Screen”; May 23, 2008; retrieved from <http://www.dailytech.com/AUO+Shows+Off+Curved+Display+and+Touch+Screen+Tech/article11845.htm> on Mar. 3, 2017 (2 pages).
 Daniel; “Curved Monitors—Overview”; Curved Monitor Test; Aug. 28, 2015; retrieved from <http://www.curved-monitor-test.de/> (5 pages).
 Denison; “Why can’t you buy a flat OLED yet? The curve isn’t just about viewing experience”; Digital Trends; Aug. 18, 2013; retrieved from <http://www.digitaltrends.com/home-theater-why-did-the-us-get-stuck-with-curved-oled/#!zXypT> (8 pages).
 DigiTimes Inc.; “FPD China 2009: AUO 8.9-inch convex display panel”; Mar. 12, 2009; retrieved from <http://www.digitimes.com/photogallery/showphoto.asp?ID=3376> on Mar. 3, 2017 (3 pages).
 Fall & Winter Catalog for Aristocrat, date estimated as early as 2010-2011 (7 pages).
 Gizmodo.com; “AUO Curved Displays, Ultra Thin LCDs on the Way”; May 20, 2008; retrieved from <http://gizmodo.com/392248/auo-curved-displays-ultra-thin-lcds-on-the-way> on Mar. 3, 2017 (2 pages).

Immersaview; “Why choose a Curved Screen for your Multi-Projector Setup”; Jan. 28, 2016; retrieved from <https://www.immersaview.com/resources/why-curved/> (7 pages).
 Kelly; “TV trends at CES: 4K, curves and smart TVs”; CNN; Jan. 8, 2014; retrieved from <http://www.cnn.com/2014/01/07/tech/gaming-gadgets/ces-television-trends/> (5 pages).
 Ljt216; “Flat Screen vs Curved CRTs for Retro Games”; Reddit; Jul. 29, 2015; retrieved from <https://www.reddit.com/r/gamecollecting/comments/3f25r0/flat_screen_vs_curved_crts_for_retro_games/> (4 pages).
 Manjoo; “TV Makers Are Out of Ideas”; Wall Street Journal; Jan. 8, 2014; retrieved from <https://www.wsj.com/news/articles/SB100014240527023033938045790308801012230792> (4 pages).
 Matthias; “Curved TV—Overview”; Curved TV Test; Apr. 20, 2016; retrieved from <http://technikblog.net/fernseher-test/curved-tv/> (16 pages, in German).
 Morrison; “Curved OLED HDTV screens are a bad idea (for now)”; CNET; Jun. 18, 2013; retrieved from <https://www.cnet.com/news/curved-oled-hdtv-screens-are-a-bad-idea-for-now/> (9 pages).
 NewLaunches.com; “LG Phillips LCD develops world’s highest resolution 14.3-inch flexible color E-paper display!”; Jan. 3, 2008; retrieved from <http://newlaunches.com/archives/lgphillips_lcd_develops_worlds_highest_resolution_143inch_flexible_color_epaper_display.php> (4 pages).
 OLED-Info; “LG Phillips LCD Develops 14.3-Inch Color E-Paper Display”; Jan. 4, 2008; retrieved from <http://www.oled-info.com/lg/lg_phillips_lcd_develops_14_3_inch_color_e_paper_display>; (2 pages).
 PC World; “AU Optronics Shows off Curved LCD Screen”; May 20, 2008; retrieved from <http://www.pcworld.com/article/146083/article.amp.html> on Mar. 3, 2017 (3 pages).
 Photonics industry and Technology Development Association (PIDA); “E-Paper Shows Potential at Creating a Paperless Haven”; OptoLink Magazine, 3 Quarter 2008; pp. 8-11 (4 pages).
 Product Catalog for “Alpha Elite™,” Bally Technologies, date estimated as early as 2008-2009 (2 pages).
 Product Catalog for Ainsworth Game Technology Ltd, date estimated as early as 2007 (6 pages).
 Product Catalog for Bally Technologies, date estimated as early as 2010 (2 pages).
 Product Sheet for “3RV™,” WMS Gaming In., 2002 or earlier (2 pages).
 Product Sheet for “American Eagle,” Eagle Co. Ltd., 1997 (2 pages).
 Product Sheet for “American Eagle,” Eagle Co., Ltd., 2000 (2 pages).
 Product Sheet for “EVO™ Hybrid,” Bally Gaming Systems, 2002 (4 pages).
 Product Sheet for “Miss America,” AC Coin & Slot, 2002 or earlier (2 pages).
 Product Sheet for “Monopoly Chairman of the Board™,” WMS Gaming Inc., 1999 (2 pages).
 Product Sheet for “ProSLOT®6000,” Bally Gaming Systems, 2002 (4 pages).
 Product Sheet for “Survivor,” WMS Gaming Inc., 2001 (4 pages).
 Product Sheet for “Ultrapin™,” Global VR, 2007 (1 pages).
 Snider; “Sony tosses latest pitch for curved TV displays”; USA Today; Oct. 15, 2013; retrieved from <http://www.usatoday.com/story/tech/personal/2013/10/15/new-curved-sony-led-hdtv/2982051/> (2 pages).
 Wilcox; “LG, Samsung, and Sony throw TV buyers a curve”; Consumer Reports; Sep. 10, 2013; retrieved from <http://www.consumerreports.org/cro/news/2013/09/curved-tv-screens/index.htm#> (1 page).
 Wood, M., Major, C., Carr, V. eds.; “Curved Screens: Worth It?” video found at <http://www.nytimes.com/video/technology/personaltech/100000002788325/curved-screens-worth-it.html>; New York Times; Mar. 26, 2014.

* cited by examiner

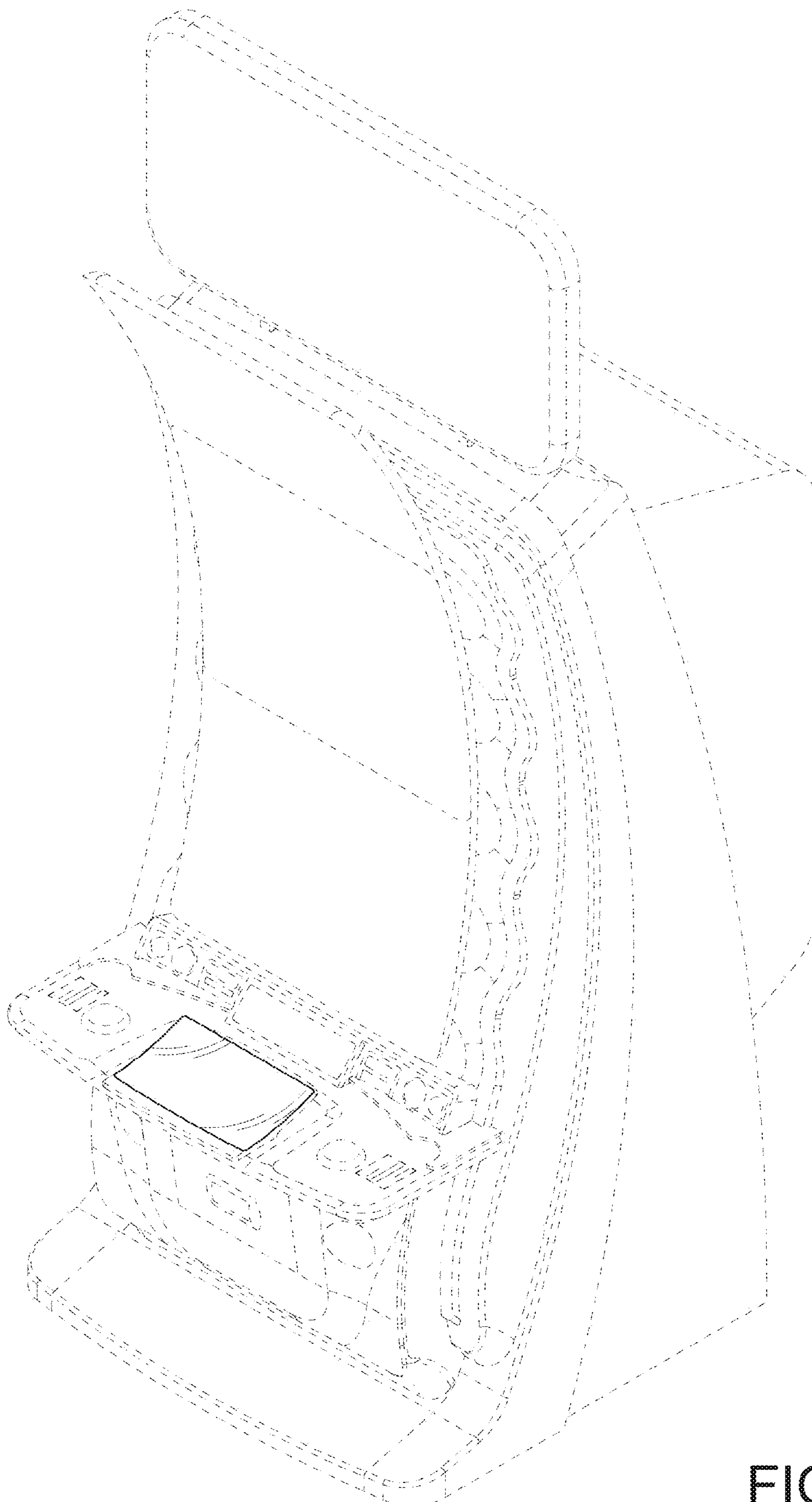


FIG. 1

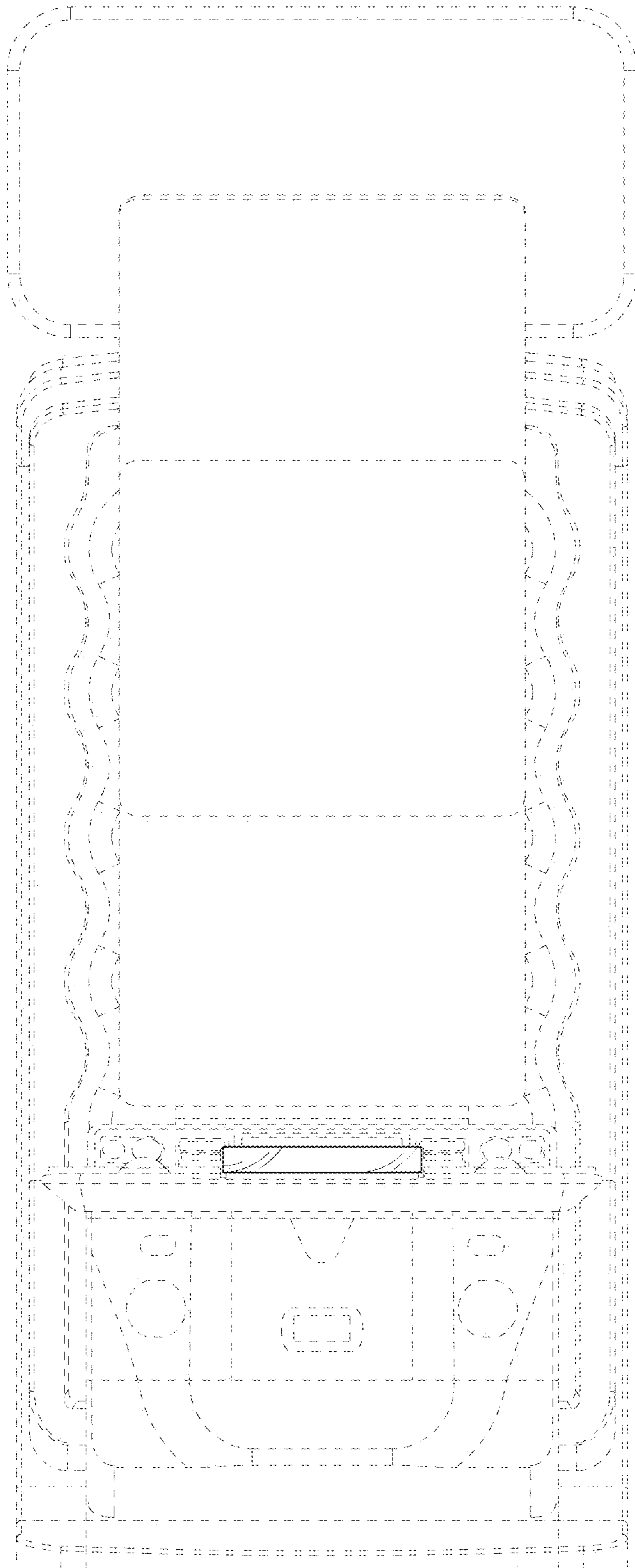


FIG. 2



FIG. 3

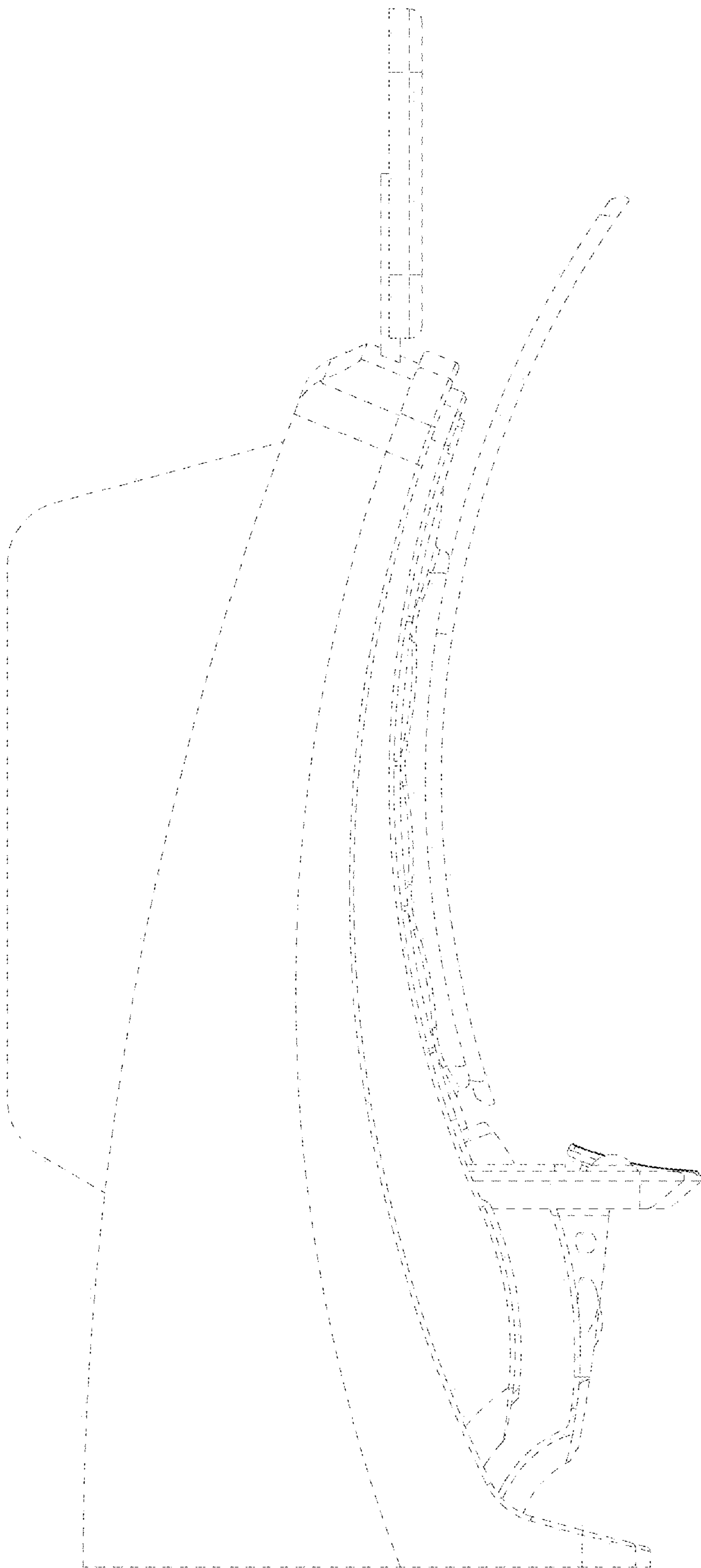


FIG. 4

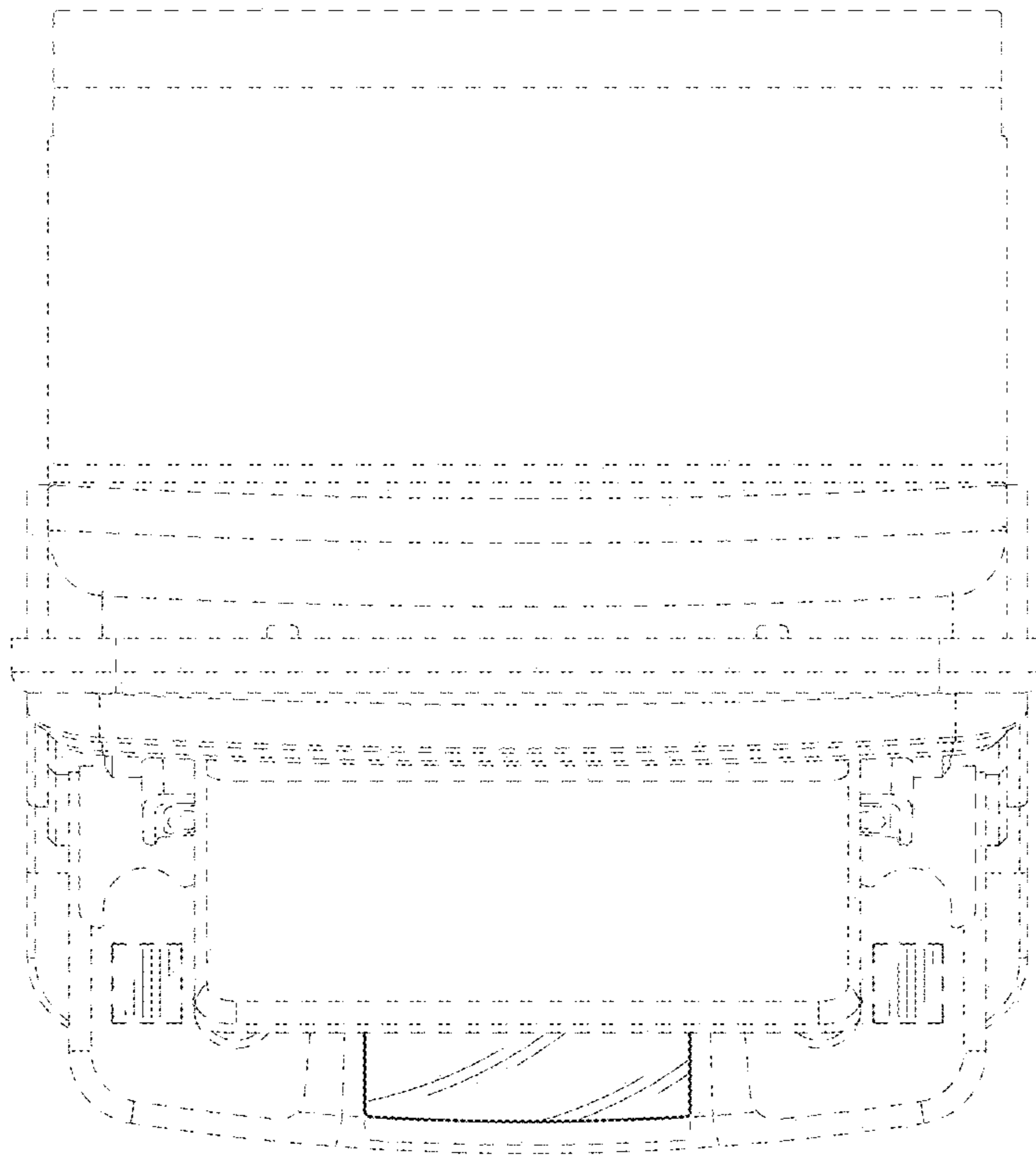


FIG. 5

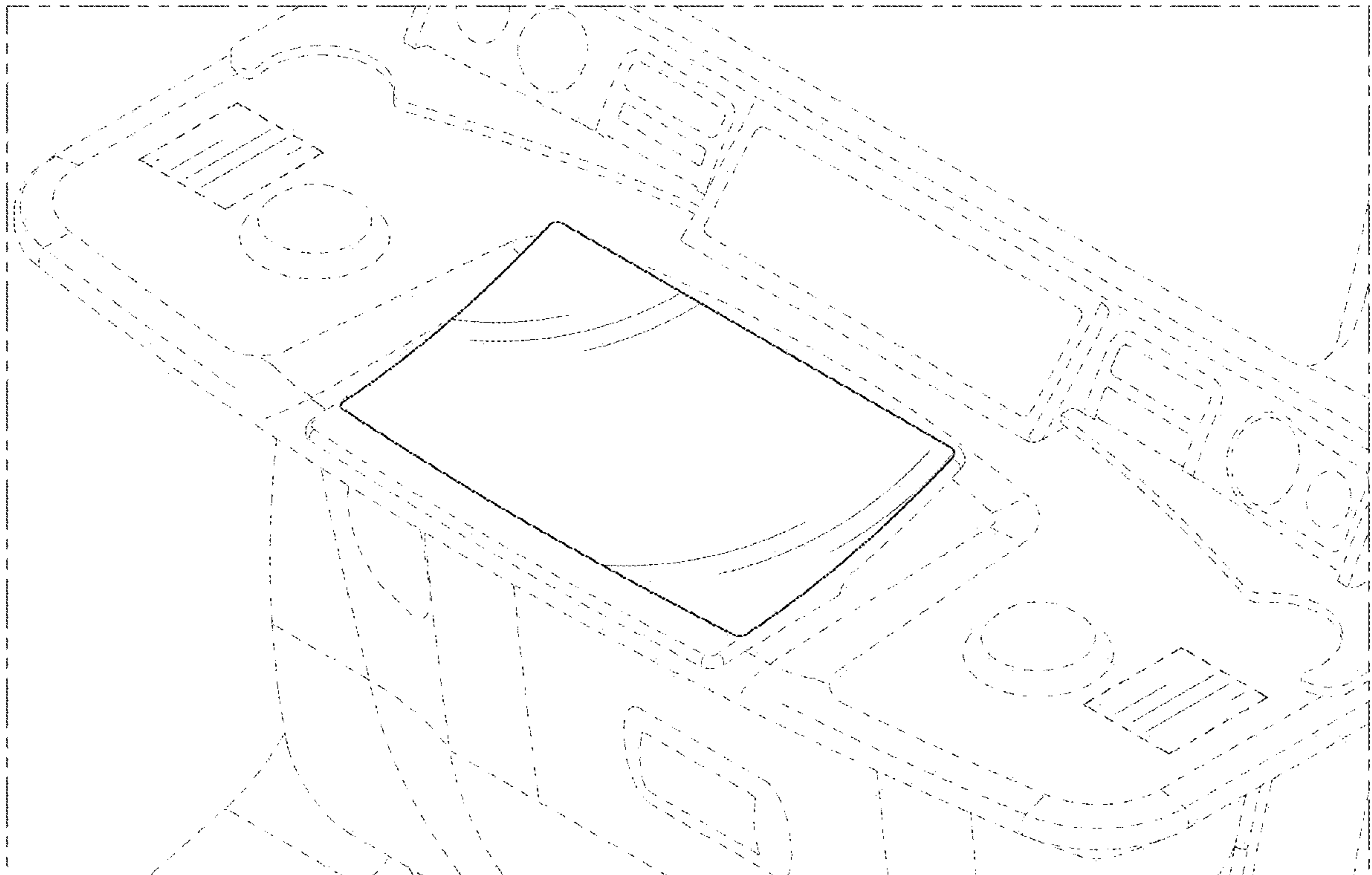


FIG. 6