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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
61/356,108	06/18/2010		110	0114757		

CONFIRMATION NO. 7364

45191

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FILING RECEIPT



OC000000042307461

Date Mailed: 06/29/2010

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Applicant(s)

Marcus Edward Gurley, Lake Mary, FL;

Power of Attorney:

Justin Sauer--56920

If Required, Foreign Filing License Granted: 06/25/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/356,108**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

TRAMPOLINE ARENA

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page 1 of 3

CIRCUSTRIX EXHIBIT 1003-0001
IPR2019-00263

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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Doc Code: **TR.PROV**

Document Description: Provisional Cover Sheet (SB16)

PTO/SB/16 (04-07)

Approved for use through 06/30/2010 OMB 0651-0032

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Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

Remove

Given Name	Middle Name	Family Name	City	State	Country i
Marcus	Edward	Gurley	Lake Mary	FL	US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Title of Invention

TRAMPOLINE ARENA

Attorney Docket Number (if applicable)

0114757

Correspondence Address

Direct all correspondence to (select one):

☒ The address corresponding to Customer Number

☐ Firm or Individual Name

Customer Number

45191

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are:

Entity Status

Applicant claims small entity status under 37 CFR 1.27

☒ Yes, applicant qualifies for small entity status under 37 CFR 1.27☐ No**Warning**

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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Justin R. Sauer/			Date (YYYY-MM-DD)	2010-06-18
First Name	JUSTIN	Last Name	SAUER	Registration Number (If appropriate)	56920

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TRAMPOLINE ARENA

Field of the Invention

[0001] The present invention relates to trampolines, and more particularly, to arenas formed from a plurality of trampolines.

Background of the Invention

[0002] Trampolines have long been recognized as a source of fun and exercise for young and old, alike. However, trampolines, and particularly large trampolines, have also been viewed as a considerable safety risk. As a result, trampolines have been underutilized in group and commercial recreation applications.

Summary of the Invention

[0003] In view of the foregoing, it is an object of the present invention to provide an improved trampoline arena. These and other objects, aspects and advantages of the present invention will be better appreciated in view of the drawings and following detailed description of preferred embodiments.

Brief Description of the Drawings

[0004] Figure 1 is a partially exploded view of a trampoline arena, including a framework assembly and a padding assembly, according to an embodiment of the present invention;

[0005] Figures 2-5 are views of components of the framework assembly of Figure 1; and

[0006] Figures 6-18 are views of components of the padding assembly of Figure 1.

Detailed Description of Preferred Embodiments

[0007] According to an embodiment of the present invention, referring to Figure 1, a trampoline arena 10 includes a framework assembly 12 supporting a plurality of trampolines (not shown) across voids 14 thereof, and a padding assembly 16 overlying the framework assembly 10 and peripheries of the trampolines. The trampolines preferably connect to the framework assembly 12 via hooks at the end of trampoline springs inserted into respective eyes on members the framework. Connection points are advantageously close enough to eliminate the risk of appendages slipping between adjacent springs. The padding assembly 16 attaches to the framework assembly 12 via a plurality of hook and loop fasteners, or other fasteners.

[0008] Referring to Figures 1-5, the framework assembly 16 defines an outwardly sloping outer wall 20, a deck 22 and a plurality of pyramids 24 extending upwardly from the deck 22. An access opening 26 is formed through at least one side of the wall 20 by not placing a trampoline from the corresponding void 14. Advantageously, the framework assembly is adapted to bear the stresses of arena 10 usage while being completely free standing. However, if desired, the framework assembly 16 can be anchored at one or more points to structural members of a building in which the area 10 is located.

[0009] Sides of the wall 20 are supported by a plurality of substantially parallel, spaced apart, K-frames 30. Upper frame members 32 connect to brackets 34 at the top of each K-frame 30, tying the K-frames 30 together and forming a top margin of the wall 20. Brackets 36 tie a knee of each K-frame 30 into longitudinal and transverse frame elements 40, 42 of the deck 22. Bracing 44 extends between midpoints of the K-frames and the frame elements 40, 42 to add further rigidity and strength.

[0010] At corners 46 of the wall 20, adjacent K-frames 30 are arranged substantially perpendicular and upper and lower corner brackets 48, 50 are angled to tie into diagonal upper and lower corner members 52, 54. The design of corners 46 more evenly distributes stresses throughout the corner than a unitary member underlying the corner would, and increases available void space for trampolines at the corners 46.

[0011] The deck 22 is formed by the longitudinal and transverse frame elements 40, 42. Midpoints of the longitudinal frame elements 40 are supported by tripods 60 and midpoints of the transverse frame elements 42 are supported by angled legs 62. Deck brackets 64 and corresponding support legs 66 are located where longitudinal and transverse frame elements 40, 42 meet away from the outer wall 20 or pyramids 24.

[0012] The pyramids 24 are interspersed throughout the deck 22, and offer additional visual interest and more gaming options to the arena 10. The pyramids 24 can also be arranged and used to help route existing building structures, such as pillars, through the arena 10, while protecting users therefrom. Alternately, the pyramids 24 could be omitted.

[0013] Each pyramid 24 includes four central vertical members 70 connected by a common top member 72, and four perimeter horizontal members 74 connected by a

plurality of brackets 76 that also tie into the longitudinal and transverse frame elements 40, 42 of the deck 22. The perimeter horizontal members 74 are supported by perimeter legs 80 extending from the brackets 76. Additionally, a diagonal member 82 extends from each corner of the top member 72 to a corresponding one of the brackets 76. Dual bracing 84 connected to each vertical member 70 extends to respective corners and midpoints of the horizontal members 74.

[0014] Referring to Figures 1 and 6-18, the padding assembly 16 covers the framework assembly 12 cushioning any contact therewith, and inhibiting entanglement in trampoline springs. The padding assembly 16 is preferably formed from a plurality of foam pads sheathed in vinyl. The particular padding material can be chosen based on needs and preferences for a given application. However, a higher density foam, permitting a lower profile pad, is generally advantageous. Also, where pads abut a trampoline 14, the edges of the pad are preferably tapered or chamfered toward the trampoline 14. This arrangement reduces the likelihood of tripping over the edge of a pad while using the arena 10.

[0015] The K-frames 40 forming sides of the wall 20 and most of the longitudinal and transverse members 40, 42 of the deck 22 are covered by generally flat pads 90. Longitudinal and transverse members 40, 42 forming an outside edge of the deck 22 are covered by side base pads 92 having a wedge-shaped profile with angularly offset flat edges to allow a smooth transition between the flat pads 90 on the deck 22 and the wall 20. The upper frame members 32 are covered by side top pads 94.

[0016] At the corners 46, a triangular base pad 96 is arranged between opposite ends of adjacent base pads 92, covering the lower corner member 54. The K-frames

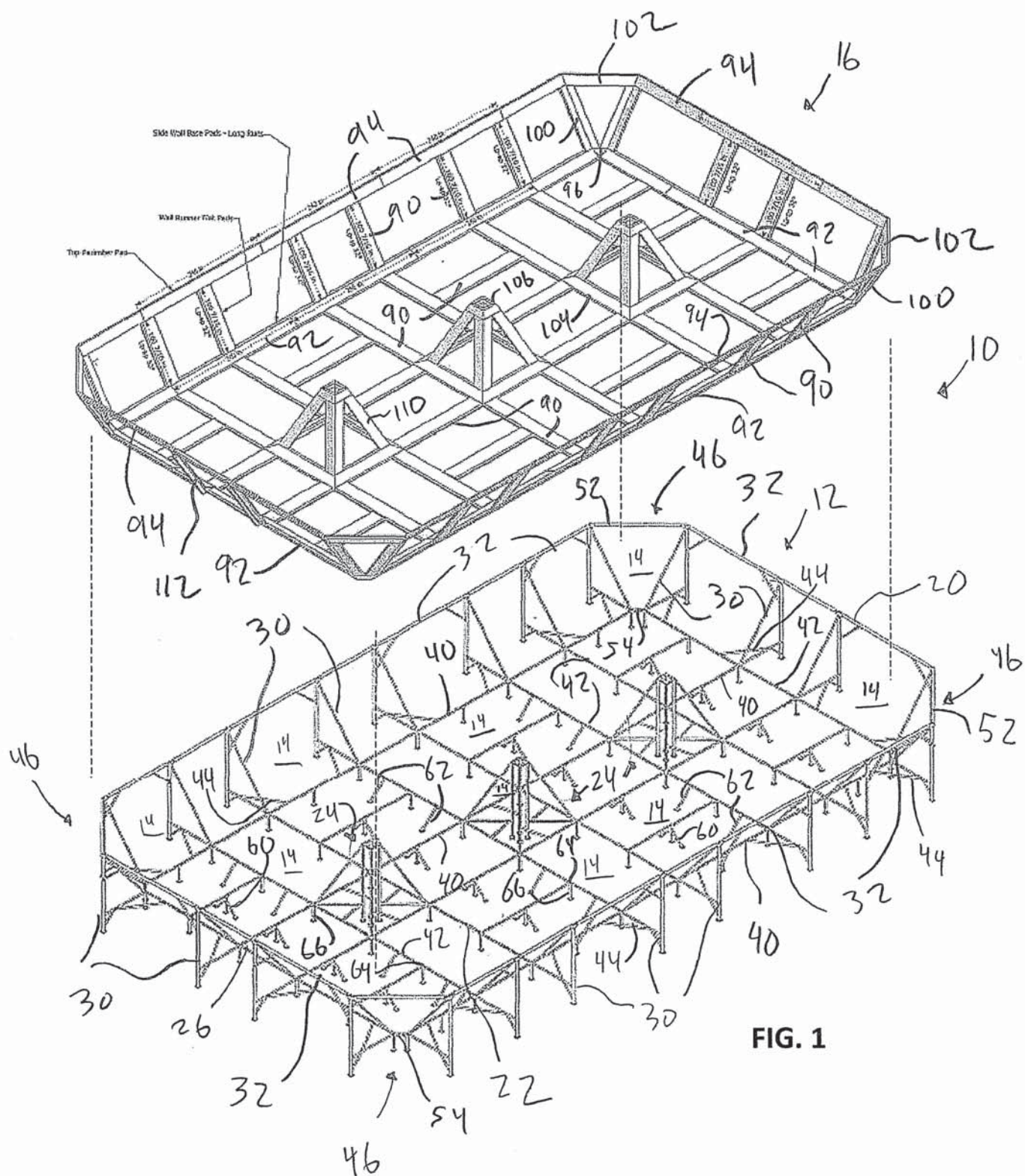
40 in the corners 46 are covered by two-piece corner pads 100 extending upwardly from the junction of the base pads 92, 96. The upper corner member 52 is covered by a corner top pad 102, similar to the side top pads 94, but mitered at respective ends thereof to closely fit between the ends of adjacent side top pads 94.

[0017] The pyramids 24 have pyramid base pads 104 similar to the side base pads 92, but mitered to closely fit at respective ends thereof. Likewise, the pyramids have pyramid top pads 106 similar to the side top pads 94, but again mitered to fit closely at ends thereof. Two-piece pyramid side pads 110 extend between the base pads 104 and top pads 106 covering the diagonal members 82.

[0018] Adjacent the opening 26, additional vertical padding 112 is included to offer extra protection for users entering and exiting the arena 10.

[0019] It will be appreciated from the foregoing, that aspects of the present invention provide an improved trampoline arena that can be freestanding, in which stresses from the use of the trampolines are very evenly distributed throughout the framework assembly, even in corners thereof. Moreover, the padding assembly closely conforms to the framework assembly, offering excellent protection while minimizing the likelihood of tripping.

[0020] The foregoing embodiment is provided for illustrative and exemplary purposes, the present invention is not necessarily limited thereto. Those skilled in the art will appreciate that various modifications, as well adaptations for particular circumstances, will fall within the scope of the invention as herein shown and described.



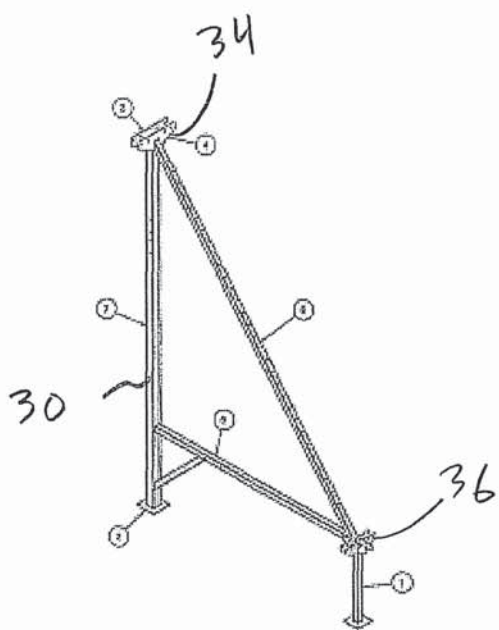


FIG. 2

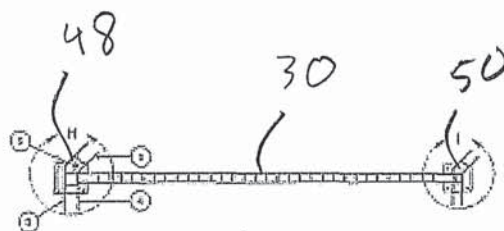


FIG. 3

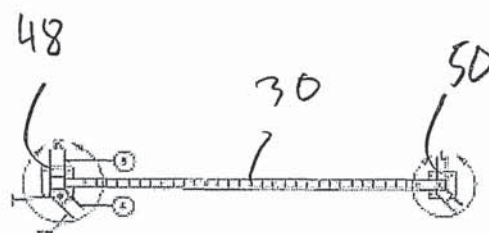


FIG. 4

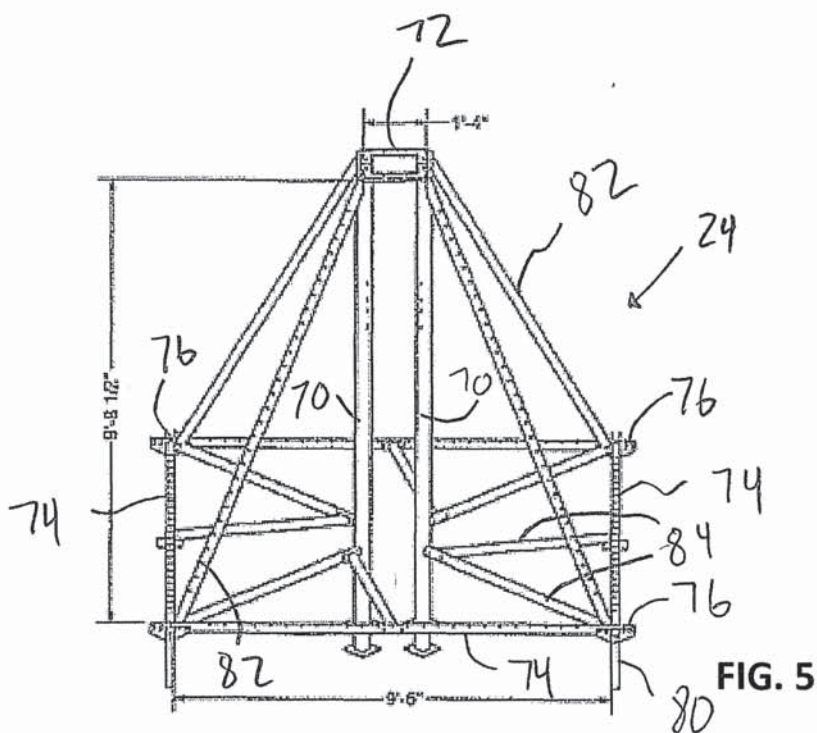


FIG. 5



FIG. 6



FIG. 7

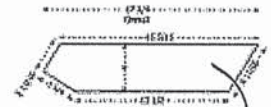


FIG. 8

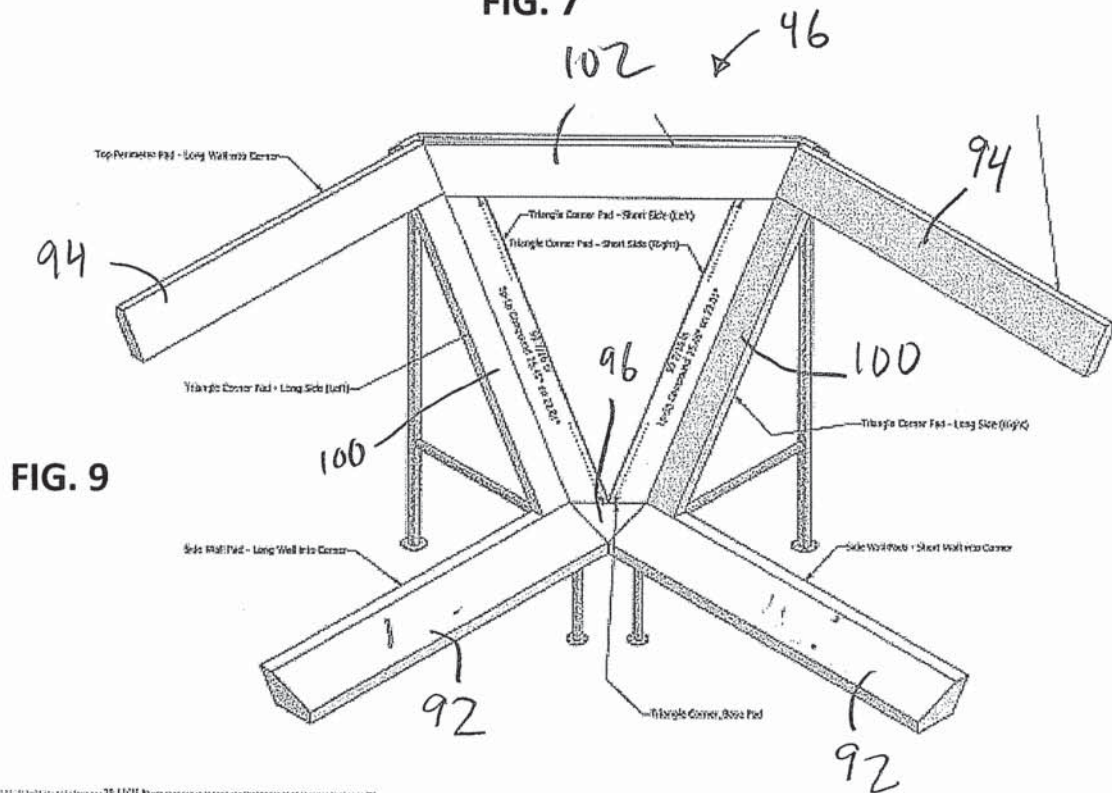


FIG. 9

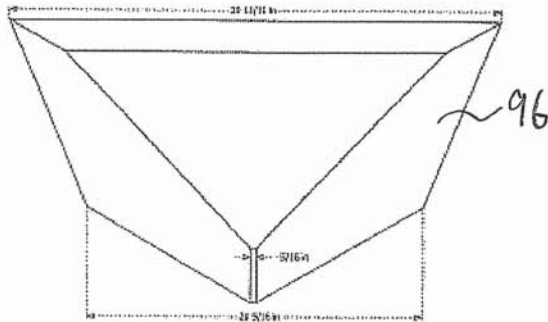


FIG. 10

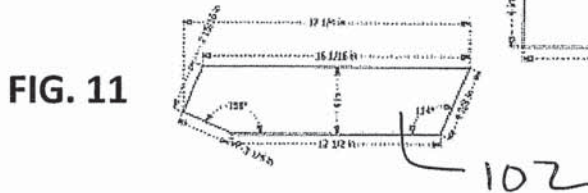


FIG. 11

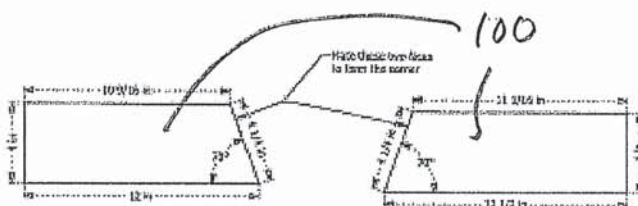


FIG. 12

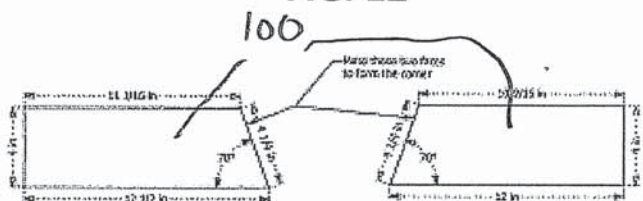


FIG. 13

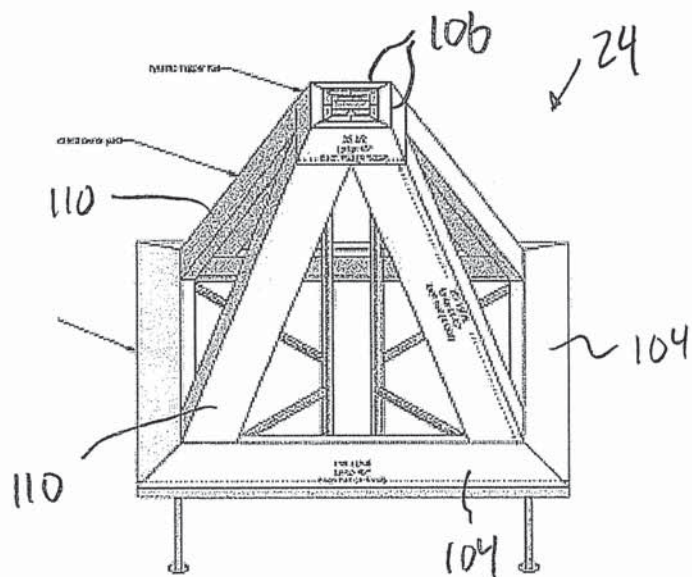


FIG. 14



FIG. 15



FIG. 16

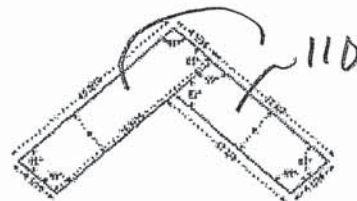


FIG. 17

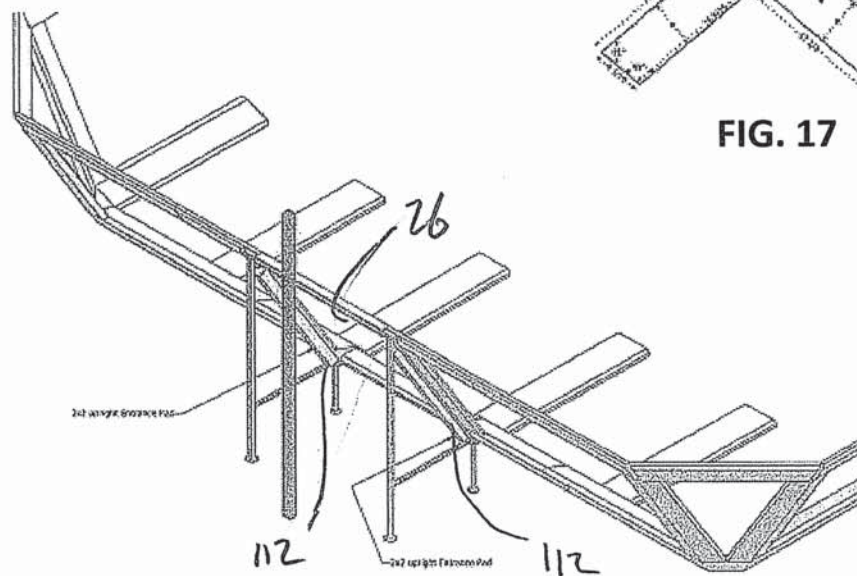


FIG. 18

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Trampoline Arena		
First Named Inventor/Applicant Name:		Marcus Edward Gurley		
Filer:		Justin Robinson Sauer/Sandra Kemraj		
Attorney Docket Number:		0114757		
Filed as Small Entity				
Provisional Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional Application filing fee	2005	1	110	110
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				110

Electronic Acknowledgement Receipt	
EFS ID:	7842505
Application Number:	61356108
International Application Number:	
Confirmation Number:	7364
Title of Invention:	Trampoline Arena
First Named Inventor/Applicant Name:	Marcus Edward Gurley
Customer Number:	45191
Filer:	Justin Robinson Sauer/Sandra Kemraj
Filer Authorized By:	Justin Robinson Sauer
Attorney Docket Number:	0114757
Receipt Date:	18-JUN-2010
Filing Date:	
Time Stamp:	11:10:20
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$110
RAM confirmation Number	7598
Deposit Account	
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	29064 885054879932818b66a54b65e44fe20a0fe 2ed07	no	2
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