STATE OF NEW MEXICO
SOLE SOURCE REQUEST AND DETERMINATION FORM

A sole source ***determination*** is not effective until the ***sole source request for determination*** has been posted for thirty (30) calendar days without challenge, and subsequently approved in writing by the State Purchasing Agent or, for Professional Services Agreements, the Secretary of the General Services Department. The foregoing requirement is regardless of whether the ***sole source request for determination*** has been signed by the Agency and/or the Contractor.

I. Name of Agency: City of Sunland Park

Agency Chief Procurement Officer: Claudia Carrillo
Telephone Number: (575) 589-7565 Ext 1320

Agency Contact for this request: Claudia Carrillo
Telephone Number & Email Address: (575) 589-7565 Ext 1320
claudia.carrillo@sunlandpark-nm.gov

II. Name of prospective Contractor: Urban Soccer Park
SHARE Vendor Number (must be active):
Address of prospective Contractor: 6663 S. Eisenman Road #130, Boise, ID 83716

Contact Name, Telephone Number and Email Address: Michael Scotto D'Abbusco, 208-219-7664, michael@urbansoccerpark.com

Amount of prospective contract before tax: Field $606,676.21, Logistics and Installation $69,477
Estimated tax amount (tax is subject to change): $49,686.78

Term of prospective contract: Upon completion of installation

Note: For terms longer than one year, Request for Policy Exemption from DFA MUST be included.

III. Agency is required to state purpose/need of purchase and thoroughly list the services (scope of work), construction or items of tangible personal property of the prospective contract (if this is an amendment request to an existing contract, include current contract number issued by SPD):

(See attachment)

IV. Provide a detailed explanation of the criteria developed and specified by the agency as necessary to perform and/or fulfill the contract and upon which the state agency reviewed available sources. (Do not use "technical jargon;" use plain English. Do not tailor the criteria simply to exclude other contractors if it is not rationally related to the purpose of the contract.)

(See attachment)

V. Provide a detailed, sufficient explanation of the reasons, qualifications, proprietary rights or unique capabilities of the prospective contractor that makes the prospective contractor ***the one source*** capable of providing the required professional service, service, construction or item(s) of tangible personal property. (Please do not state the source is the "best" source or the "least costly" source. Those factors do not justify a "sole source.")

(See attachment)

VI. Provide a detailed, sufficient explanation of how the professional service, service, construction or item(s) of tangible personal property is/are ***unique and how this uniqueness is substantially related to the intended purpose of the contract.***

(See attachment)

VII. Explain why other similar professional services, services, construction, or item(s) of tangible personal property ***cannot*** meet the intended purpose of the contract.

(See attachment)

VIII. Provide a narrative description of the agency's due diligence in determining the basis for the procurement, including procedures used by the agency to conduct a review of available sources such as researching trade publications, industry newsletters and the internet; contacting similar service providers; and reviewing the State Purchasing Divisions' Statewide Price Agreements. Include a list of businesses contacted (***do not state that no other businesses were contacted***), date of contact, method of contact (telephone, mail, e-mail, other), and documentation demonstrating an explanation of why those businesses could not or would not, under any circumstances, perform the contract; or an explanation of why the agency has determined that no businesses other than the prospective contractor can perform the contract.

(See attachment)

Certified by: Date: 8/18/25

Agency Chief Procurement Officer

Agency Approval by: Date: 8/20/25

City Manager

To Whom It May Concern,

Urban Soccer Park is the only company in the United States exclusively dedicated to the design, manufacturing, and installation of a fully integrated, modular, turfed mini-pitch system with several US patents and patents pending regarding this proprietary system. With more than 15 years of industry experience in this highly specialized field, USP is uniquely positioned to deliver a solution that meets the technical, recreational, and community needs of public agencies, youth programs, and neighborhood organizations.

Furthermore, Urban Soccer Park is the only mini-pitch provider globally that has also operated multiple small-sided soccer facilities. This operational expertise gives USP unmatched insight into user experience, long-term durability, and system performance - ensuring that its product offerings are optimized for real-world public use.

Urban Soccer Park's proprietary system is not available through any other vendor. Based on the differentiators outlined below and in the accompanying appendix, Urban Soccer Park has consistently been approved as a sole source solution for mini-pitch projects throughout North America.

Patents

To reinforce it's position as an unmatched provider, Urban Soccer Park has applied for and been granted numerous patents and patents pending regarding the proprietary nature of our modular, turfed mini-pitch system, including:

- Patent No: US 12,064,678 B2 - Modular Field

    - Patented design for a modular soccer field with proprietary 10' modular sections that can be combined to create custom mini-pitch solutions of varying sizes
- Patent No: US 12,065,787 B2 - Apparatus, Systems, and Methods for Turf Trim Strip
    - Patented proprietary designed nailer board for the securing of artificial turf within a contained mini-pitch system to ensure the long-term durability of turf installations
- Patent No: US D995,670 S - Sideline Soccer Goal
    - Patented design of a street soccer goal integrated directly into the wall panels of a modular mini-pitch system
- Patent Pending: Publication No: US 2024/0299827 A1 - Backstop Net System
    - Patent pending for a proprietary designed backstop net system for the increased endline containment of a soccer ball on a walled mini-pitch system
- Patent Pending: Publication No: US 2024/0117652 A1 - Net Securing System, Apparatus, and Methods

Patent pending for a proprietary designed system of securing containment netting to the wall panels of a modular mini-pitch system

Intentional, Soccer-Specific Design

The USP Pro Mini-Pitch System offers a comprehensive, purpose-built solution specifically engineered for small-sided soccer. Unlike general sports infrastructure providers or partial mini-pitch vendors, Urban Soccer Park designs and manufactures every component - including walls, access doors, turf, goals, containment netting, spectator seating, LED lighting, and field accessories - as part of an integrated and interdependent system.

This turnkey approach eliminates the need for subcontracted trades or third-party component matching, thereby ensuring optimal system cohesion, simplified project coordination, and consistently high performance. The result is the only fully turfed, soccer-specific mini-pitch system on the market that functions as a unified whole. No other known contractor or vendor offers a comparable product that replicates the engineering, modularity, or integration of the USP Pro system.

Turnkey Services

Urban Soccer Park is the only provider offering a full-suite of turnkey services to ensure your project's long-term success. No other turfed mini-pitch manufacturer offers a comprehensive service package that includes:

- An in-house team of full-time Installation Specialists that specialize in the turnkey installation of USP mini-pitch systems and small-sided turf
- 50-point Inspection Checklist at Installation Sign-Off
- Free Wellness Check visit and fresh 50-point inspection within six months of installation
- The industry's only Annual Maintenance Plan with a dedicated USP Wellness Manager conducting annual Wellness Checks on your field to perform routine and preventative maintenance on your system and surface

Installation and Engineering Advantages

Urban Soccer Park set out with a mission to bring soccer to every neighborhood in the country. To accomplish this, USP has engineered a proprietary mini-pitch system that can be installed in as many places as possible without the need for concrete. Anchoring details are included in the appendix.

This concrete-free design provides municipalities a distinct advantage over any other mini-pitch on the market. By requiring only a compacted crushed rock pad, Urban Soccer Park eliminates the need for costly excavation, concrete pouring, permitting delays, and specialized contractors. The simplified site preparation enables the city to reduce construction costs by thousands of dollars, have the peace of mind of spending less money buried in the ground, and avoid the long-term environmental impacts associated with concrete.

Furthermore, crushed rock pads allow for better drainage and greater adaptability to terrain, making the system more flexible for public spaces with irregular topographies or sensitive surfaces. USP's fully permeable components - including the mini-pitch structure, turf, and padding - ensure that the USP mini-pitch system is the only pitch solution that integrates

seamlessly into the environment without introducing impervious materials that disrupt natural water flow and drainage.

Finally, the modular design of the USP system means it can be uninstalled and relocated as community needs evolve. Without a permanent concrete base, cities retain flexibility and avoid the future costs and complications of removing or repurposing hardened infrastructure. A crushed rock pad offers a sustainable, adaptable, and economically responsible foundation for growing the game of soccer in every community.

Proprietary Turf System

The nature of small-sided soccer and it's smaller footprint puts additional strain on your artificial turf surfaces. While many people consider turf a commodity, the truth is much more complex. It's important to consider the composition of your turf and it's alignment with the programming you will offer. The turf used for a full-sized soccer field is designed for 22 players playing in a space that's between 45,000 and 80,000 square feet, or between 2,045 and 3,636 square feet per player. When you shift to 5v5 small-sided soccer, the playing space drops to an average of 4,500 square feet and 450 square feet per player. This means between 4.5x-8x more footprints, stress, and wear on your turf. Even a turf of the highest quality, if not explicitly designed for this use, will deteriorate quicker, require more maintenance, and cost more to replace.

For all these reasons, Urban Soccer Park has worked with turf suppliers across the globe to design and engineer a turf specification specifically tailored to the rigors of small-sided soccer. This turf features a taller pile height, thicker thatch, a bolstered underweave, and sufficient infill to allow for high-intensity play with cleats in a small-sided setting.

Environmental and Safety Considerations

Urban Soccer Park's system is design with player safety and environmental sustainability in mind. This includes a list of safety and sustainability components unmatched by any other mini-pitch provider:

- Fully recyclable field components
- Recyclable turf and drainage pad

- Organic, hypoallergenic, and recyclable infill (free from crumb rubber or forever plastics)
- Turf engineered to meet GMAX safety ratings for impact attenuation
- System design compliant with IPEMA F1487-17 safety standards

If further documentation or clarification is required, please do not hesitate to contact us directly.

Sincerely,

Josh Frazier

Josh Frazier
Founder & Head of Product Design
Urban Soccer Park

US012064678B2

(12) United States Patent
Frazier

(10) Patent No.: US 12,064,678 B2
(45) Date of Patent: Aug. 20, 2024

(54) **MODULAR FIELD**

(71) Applicant: **Soccer Park, LLC**, Boise, ID (US)

(72) Inventor: **Joshua Leland Frazier**, Boise, ID (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 810 days.

(21) Appl. No.: **16/540,843**

(22) Filed: **Aug. 14, 2019**

(65) **Prior Publication Data**

US 2021/0046372 A1 Feb. 18, 2021

(51) **Int. Cl.**
A63B 71/02 (2006.01)
A63B 63/00 (2006.01)

(52) **U.S. Cl.**
CPC ***A63B 71/022*** (2013.01); ***A63B 63/004*** (2013.01); ***A63B 71/023*** (2013.01); *A63B 2225/09* (2013.01); *A63B 2243/0025* (2013.01)

(58) **Field of Classification Search**
CPC ... A63B 71/022; A63B 63/004; A63B 71/023; A63B 2225/09; A63B 2243/0025; E04B 2/00; E05G 1/024
USPC 473/415
See application file for complete search history.

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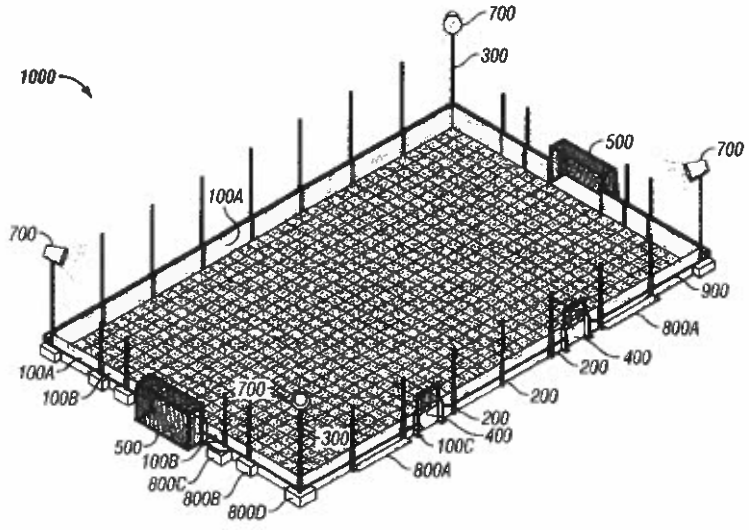
Primary Examiner — Melba Bumgarner
Assistant Examiner — Rayshun K Peng
(74) *Attorney, Agent, or Firm* — Parsons Behle & Latimer

(57) **ABSTRACT**

A modular field that includes a plurality of coplanar wall segments connected together by a plurality of stanchions and a plurality of corner stanchions to connect together wall segments oriented perpendicular to each other. The size of the modular field may be varied by the number and/or size of wall segments. Lights may be connected to the corner stanchions. One or more doors to allow ingress into the modular field may be connected to adjacent wall segments by the stanchions. Goals may be connected to wall segments at opposite sides of the modular field by the stanchions. The stanchions may include a base plate, a main support pole connected to the base plate, a channel receptacle connected to the base plate, a rear plate connected to the main support pole, a frame connected to the rear plate, a front plate, and a clamp connected to the main support pole.

30 Claims, 7 Drawing Sheets



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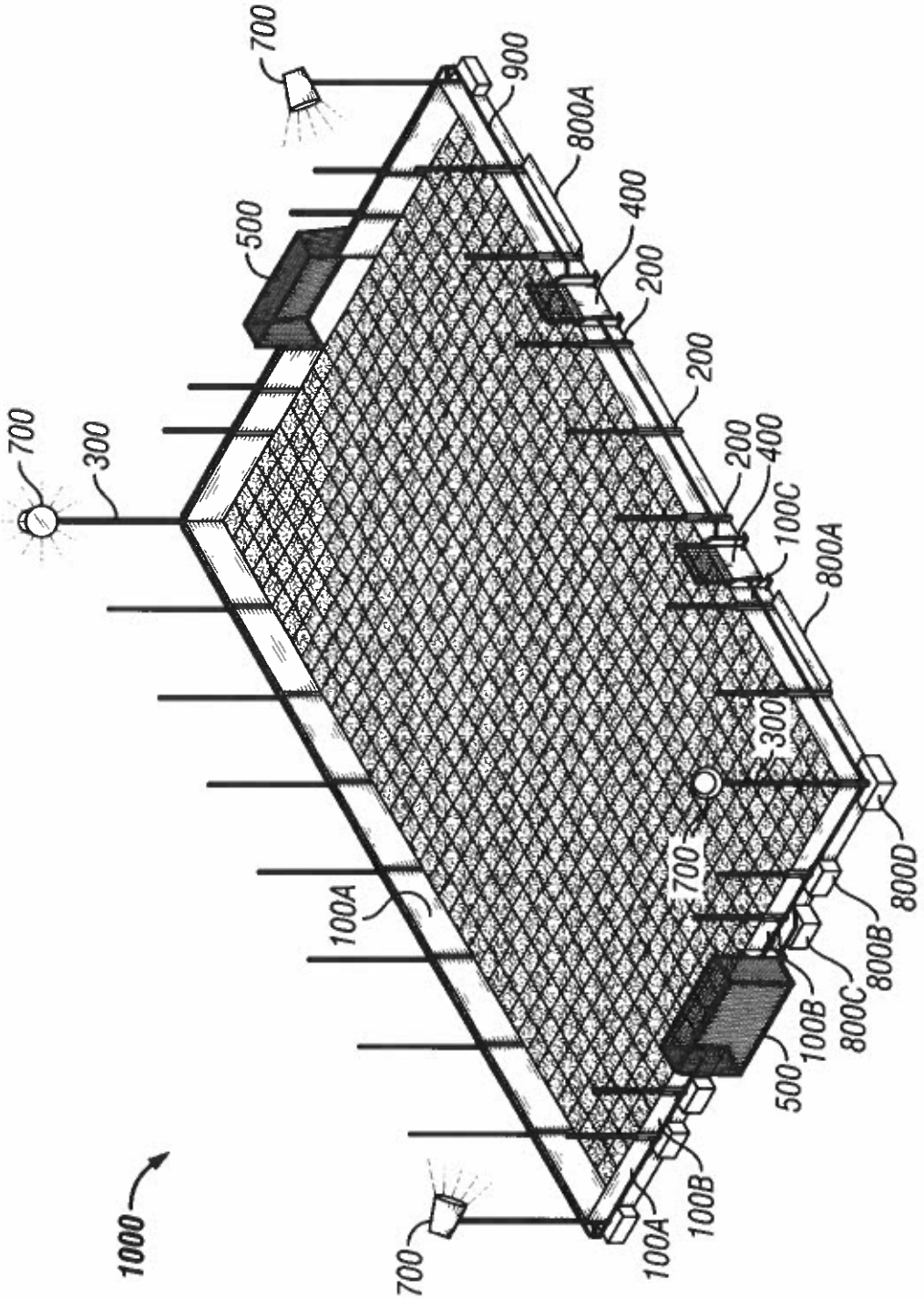
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FIG. 1

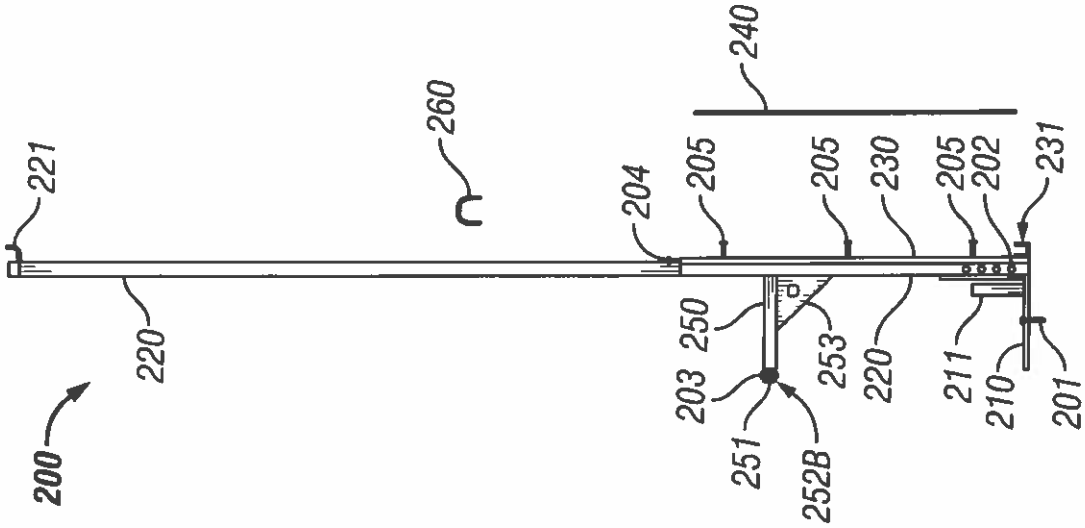


FIG. 4

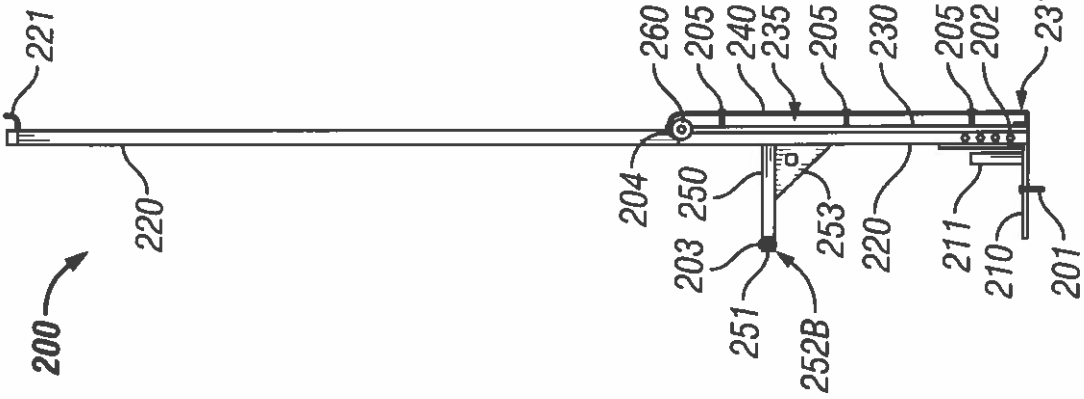


FIG. 3

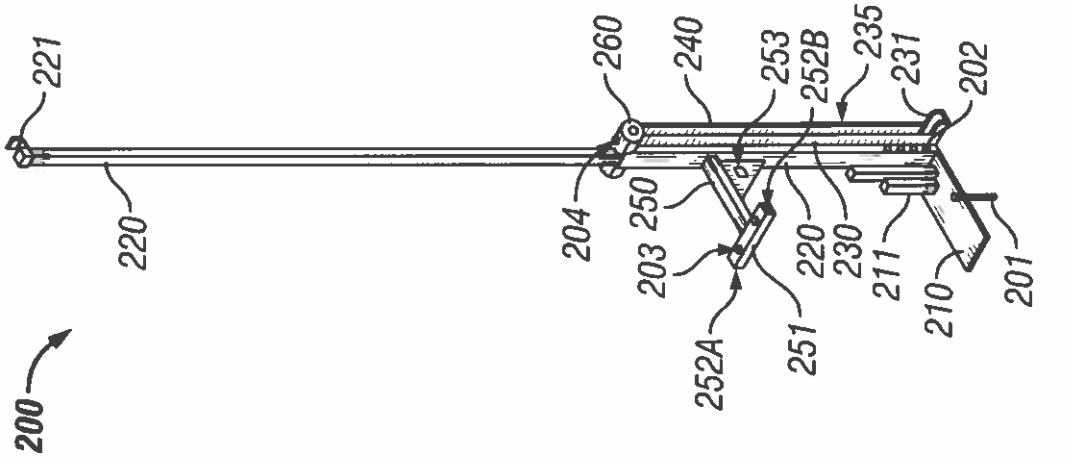


FIG. 2

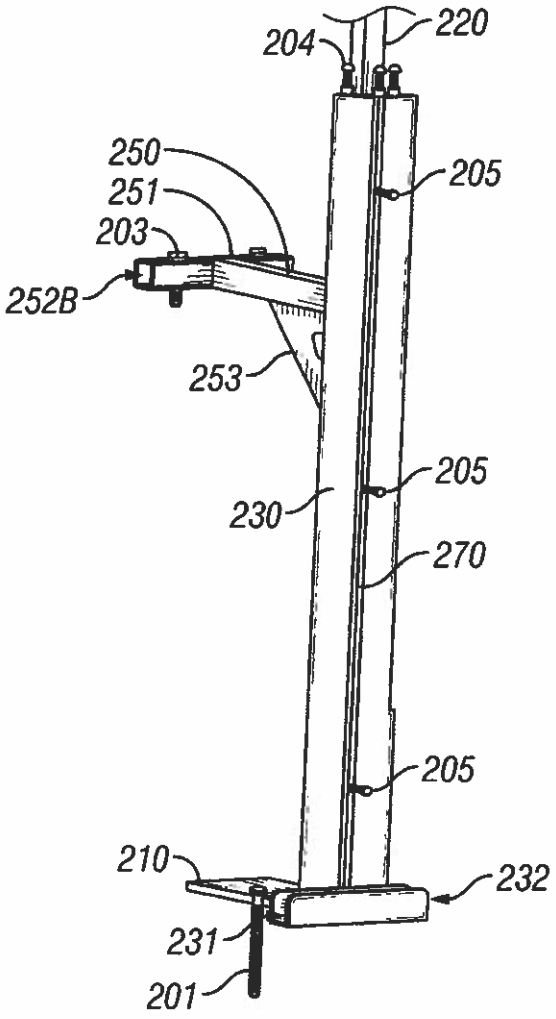
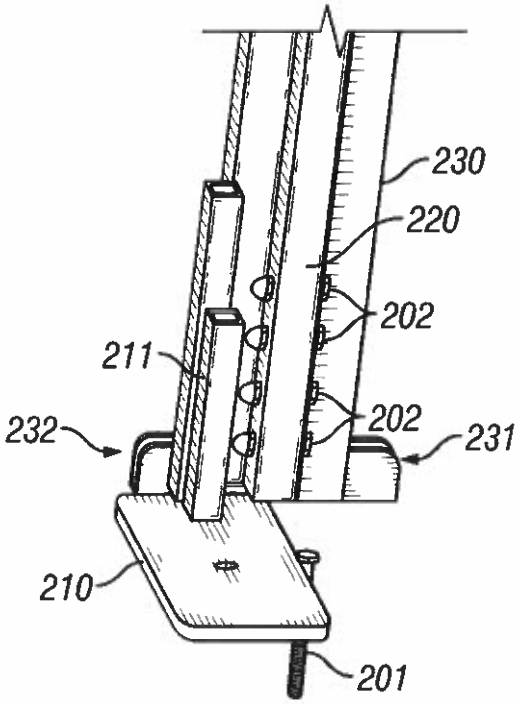


FIG. 5



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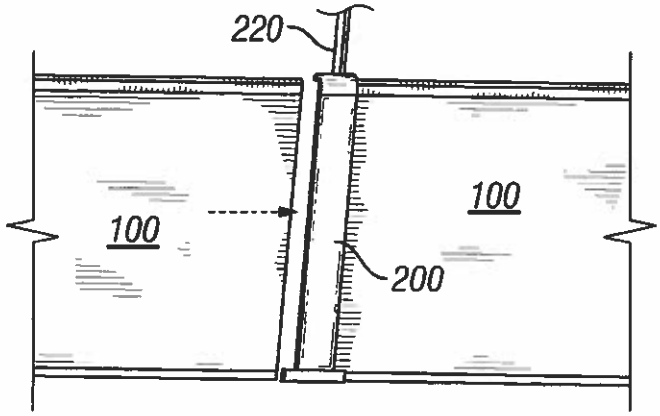

FIG. 7

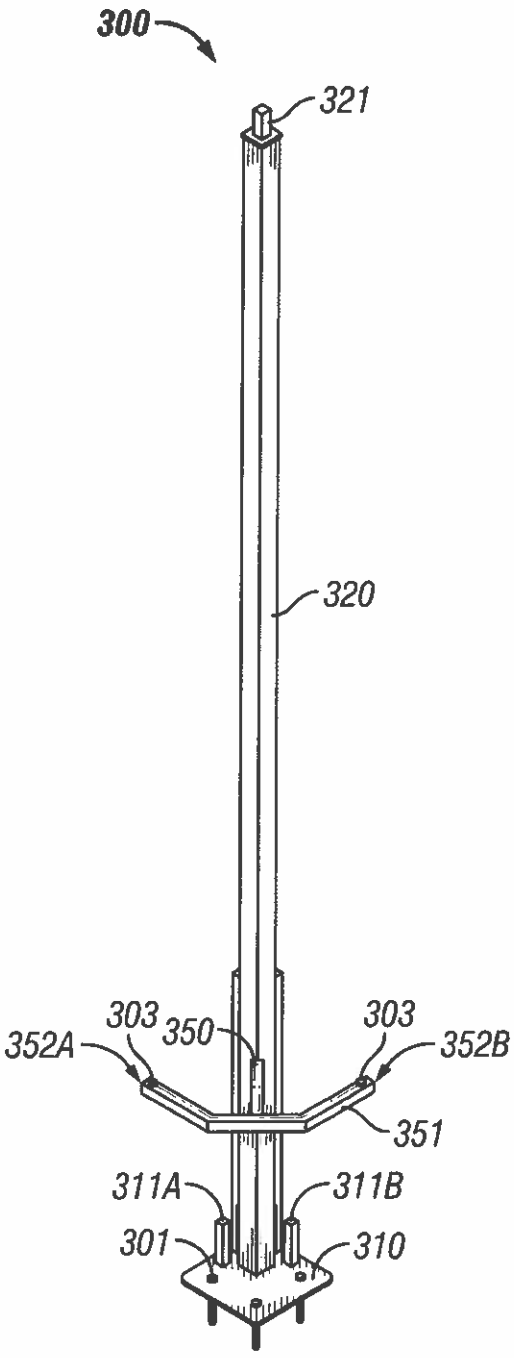
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FIG. 8

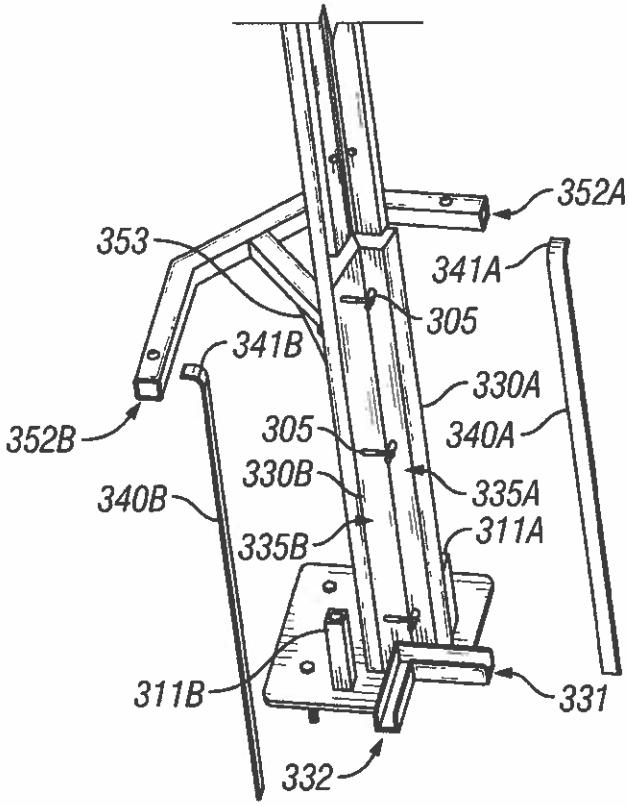
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FIG. 9

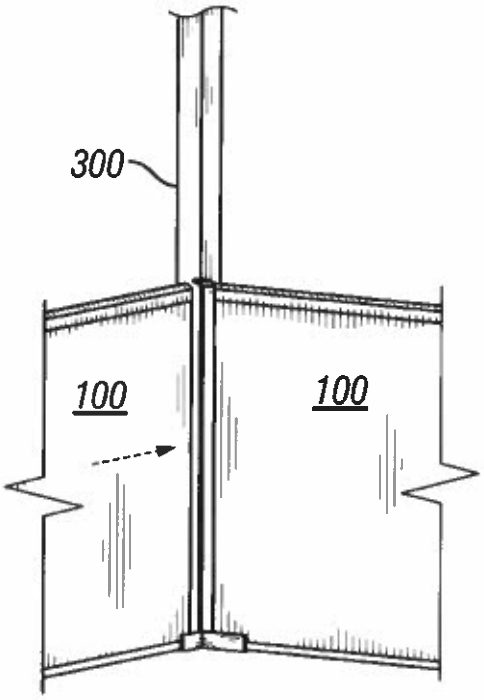

FIG. 10

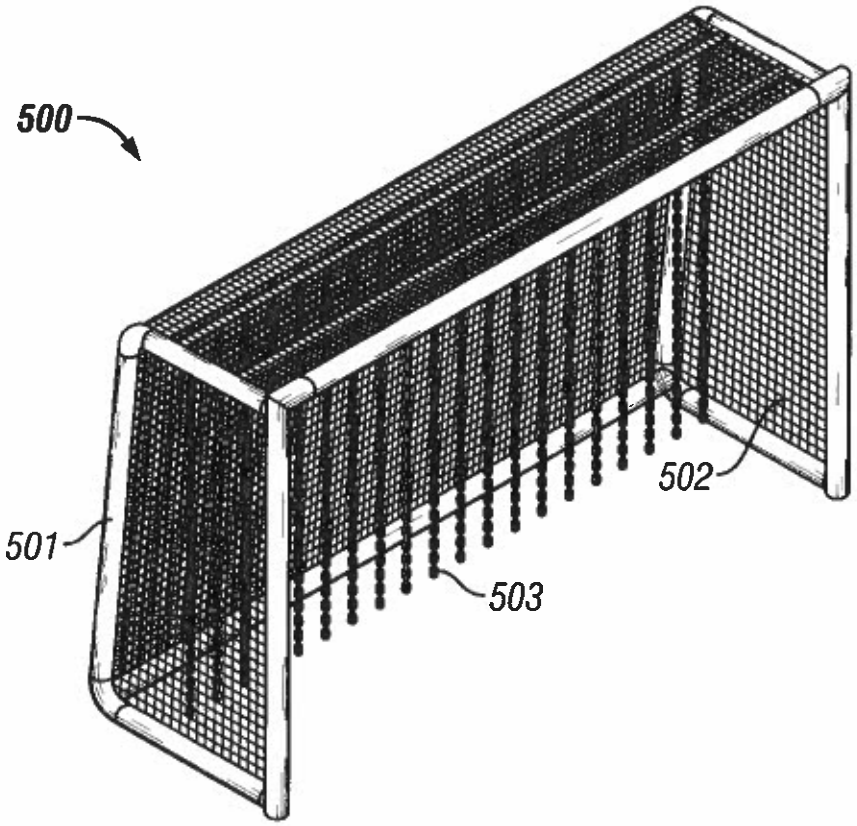

FIG. 11

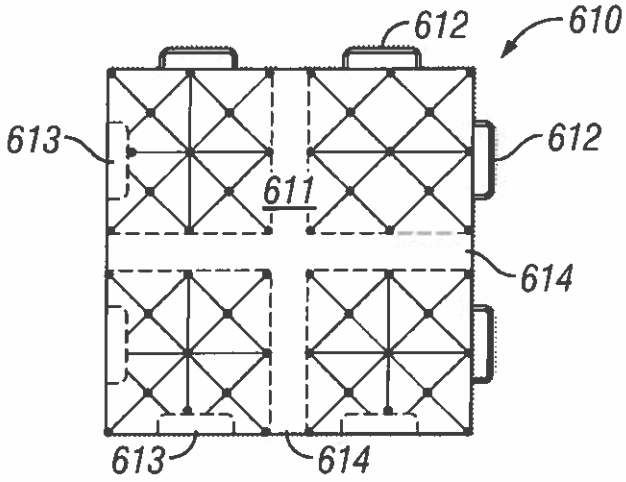

FIG. 12

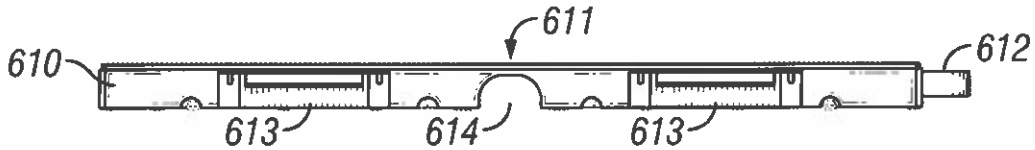

FIG. 13

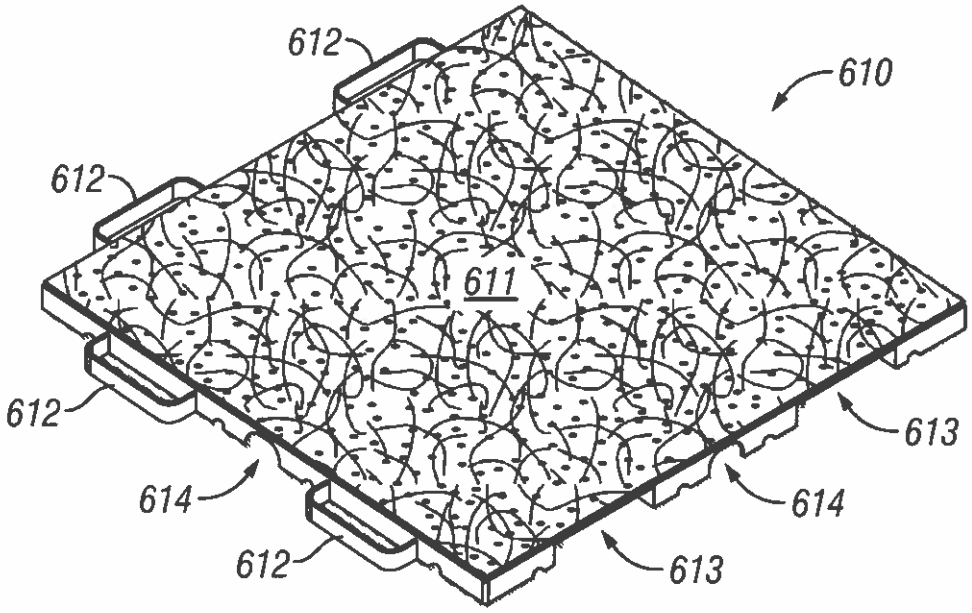

FIG. 14

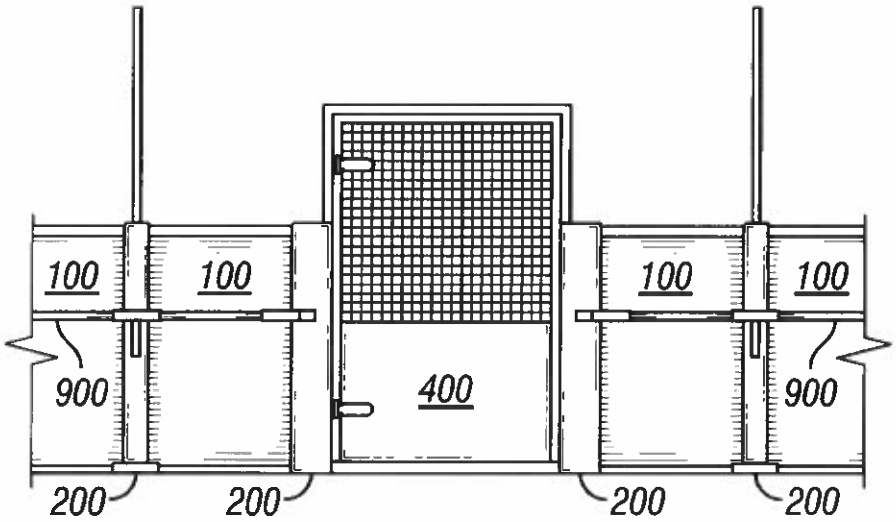
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FIG. 15

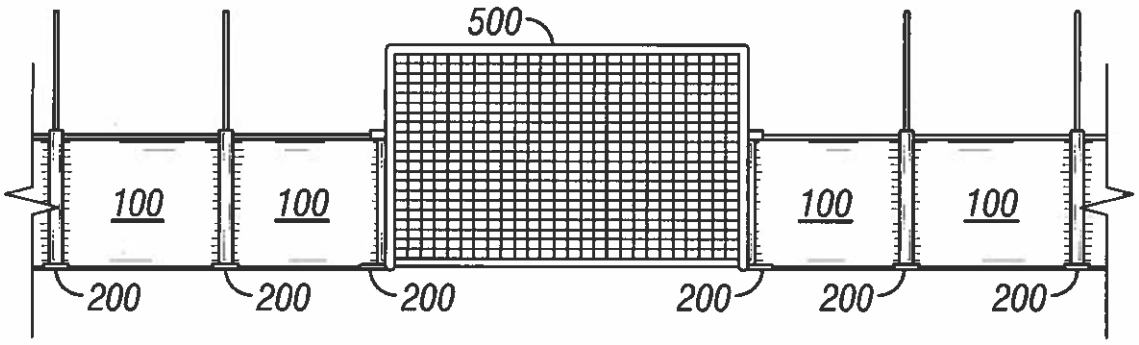
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FIG. 16

MODULAR FIELD

FIELD OF THE DISCLOSURE

The embodiments described herein relate to apparatuses, systems, and methods for a modular field. The field may be, but is not limited to, a soccer field.

BACKGROUND

Description of the Related Art

It may be important to have local sporting fields to permit individuals to exercise, engage in sporting contests, and/or engage in various outdoor activities. In some locales, adequate space may not be available for a sporting field. In other areas, there may not be the resources to take care of a grass field. Some areas may have a space available that is smaller than a standard size for a typical sporting fields, such as a soccer field. In some urban areas, the only available spaces may only be on the roof tops of buildings. Other disadvantages may exist.

SUMMARY

The present disclosure is directed to apparatuses, systems, and methods for a modular field that overcomes at least one of the disadvantages discussed above. The field may be, but is not limited to, a soccer field. The modular nature of the modular field disclosed herein may enable the field to be located on top of a building or modified to fit an available space.

An embodiment of the present disclosure is a modular field comprising a plurality of wall segments and a plurality of stanchions. Each stanchion having a base plate, a main support pole connected to the base plate, a channel receptacle connected to the base plate, a rear plate connected to the main support pole, a frame connected to the rear plate, a front plate, and a clamp connected to the main support pole. The main support pole of the stanchion extends substantially perpendicular from the base plate. The modular field includes at least one corner stanchion having a base plate, the base plate having a first channel receptacle and a second channel receptacle, a main support pole connected to the base plate, a first rear plate connected to the main support pole, a second rear plate connected to the main support pole, a first front plate, and a second front plate. The main support pole of the corner stanchion extends substantially perpendicular from the base plate. Each of the plurality of stanchions connects together two adjacent wall segments that are coplanar. The at least one corner stanchion connects together two adjacent wall segments that are oriented perpendicular to each other.

The modular field may include a first goal and a first door, wherein the first goal and first door are each positioned between two wall segments of the plurality of wall segments. The modular field may include a second goal positioned between two wall segments of the plurality of wall segments and a plurality of corner stanchions, wherein each corner stanchion of the plurality of corner stanchions connects together two adjacent wall segments that are oriented perpendicular to each other. The front plate, rear plate, frame, and clamp of each stanchion of the plurality of stanchions may capture a portion of two adjacent wall segments. The channel receptacle may be configured to receive two adjacent wall segments of the plurality of wall segments.

The frame of each stanchion of the plurality of stanchions may be positioned between a gap formed between ends of two adjacent wall segments. The frame may have a rectangular cross-section. One or more fasteners may connect the front plate of each of the plurality of stanchions to the frame of the stanchion. One or more of the stanchions of the plurality of stanchions may include an accessory rod that extends perpendicular from the base plate. An accessory may be connected to the accessory rod. The accessory may be a planter, storage bin, bench, or the like.

Each of the plurality of stanchions may include a secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole. A handrail may be connected to the secondary poles of each stanchions of the plurality of stanchions. The first channel receptacle and the second channel receptacle of each corner stanchion of the plurality of corner stanchions may be configured to receive one wall of the plurality of wall segments. The first front plate, first rear plate, second front plate, and second rear plate of each corner stanchion of the plurality of corner stanchions may capture a portion of two adjacent wall segments that are oriented perpendicular to each other.

Each corner stanchion of the plurality of corner stanchions may include a secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole. A handrail may be connected to the secondary poles of each of the corner stanchions of the plurality of corner stanchions. A light may be connected to each support pole of each corner stanchion of the plurality of corner stanchions. The modular field may include a second door positioned between two wall segments of the plurality of wall segments. The plurality of wall segments, the first goal, the second goal, the first door, and the second door may form a perimeter. A plurality of connected tiles may be positioned within the perimeter to form a field.

An embodiment of the present disclosure is a stanchion comprising a base plate and a main support pole connected to the base plate. The main support port extends substantially perpendicular to the base plate. The stanchion includes a channel receptacle connected to the base plate and a rear plate connected to the main support pole. The stanchion includes a frame connected to the rear plate and a front plate connected to the frame. The stanchion includes a clamp connected to the main support pole and connected to the frame, wherein the front plate, rear plate, clamp, frame, and channel receptacle from a cavity.

The stanchion may include an accessory rod that extends substantially perpendicular from the base plate. An accessory such as a bench, planter, storage bin, or the like may be connected to the accessory rod. The stanchion may include a secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole.

An embodiment of the present disclosure is a stanchion comprising a base plate having a first channel and a second channel, the first channel being substantially perpendicular to the second channel. The stanchion includes a main support pole connected to the base plate, the main support pole extends substantially perpendicular to the base plate. The stanchion includes a first rear plate connected to the main support pole and a second rear plate connected to the main support pole. The stanchion includes a first front plate connected to the first rear plate and a second front plate connected to the second rear plate. The first channel, first rear plate, and first front plate form a first cavity and the

second channel, second rear plate, and second front plate form a second cavity that is substantially perpendicular to the first cavity.

The stanchion may include a first accessory rod that extends perpendicular from the base plate and a second accessory rod that extends perpendicular from the base plate. An accessory such as a bench, planter, storage bin, or the like may be connected to the first and second accessory rods. The stanchion may include a secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole. The stanchion may include a light connected to the main support pole.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** shows a perspective view schematic of an embodiment of a modular field.

FIG. **2** shows a perspective view schematic of an embodiment of a stanchion.

FIG. **3** shows a sideview schematic of the stanchion of FIG. **2**.

FIG. **4** shows a partially-exploded schematic of the stanchion of FIG. **2**.

FIG. **5** shows a close-up schematic of a portion of the stanchion of FIG. **2**.

FIG. **6** shows a close-up schematic of a portion of the stanchion of FIG. **2**.

FIG. **7** shows a schematic of two wall segments being connected by an embodiment of a stanchion.

FIG. **8** shows a perspective view of a schematic of an embodiment of a corner stanchion.

FIG. **9** shows a close-up partially-exploded schematic of a portion of the stanchion of FIG. **8**.

FIG. **10** shows a schematic of two perpendicularly oriented wall segments being connected by an embodiment of a corner stanchion.

FIG. **11** shows a schematic of an embodiment of a goal.

FIG. **12** shows a top view schematic of an embodiment of a field tile.

FIG. **13** shows a side view schematic of an embodiment of a field tile.

FIG. **14** shows a perspective view schematic of an embodiment of a field tile.

FIG. **15** shows a schematic of a door positioned adjacent wall segments for an embodiment of a modular field.

FIG. **16** shows a schematic of a goal positioned adjacent wall segments for an embodiment of a modular field.

While the disclosure is susceptible to various modifications and alternative forms, specific embodiments have been shown by way of example in the drawings and will be described in detail herein. However, it should be understood that the disclosure is not intended to be limited to the particular forms disclosed. Rather, the intention is to cover all modifications, equivalents and alternatives falling within the scope of the invention as defined by the appended claims.

DETAILED DESCRIPTION

FIG. **1** shows a perspective view of an embodiment of a modular field **1000**. The modular field **1000** includes a plurality of wall segments **100**A, **100**B, **100**C that enable the modular nature of the modular field **1000**. The wall segments **100**A, **100**B, **100**C, collectively referred to as wall segments **100**, (best shown in FIGS. **7**, **10**, **15**, and **16**), are connected together by a plurality of stanchions **200** and corner stanchions **300** as discussed herein. The modular field **1000** may include wall segments **100**A having a first length, wall segments **100**B having a second length, and wall segments **100**C having a third length.

Various lengths of wall segments **100**A, **100**B, **100**C may be used to change the size, shape, and/or perimeter of the modular field **1000** as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure. For example, the modular field **1000** may include first wall segments **100**A having a length of approximately 10 feet, second wall segments **100**B having a length of approximately 5 feet, and third wall segments **100**C having a different length. First wall segments **100**A may have a first length with the length of the second wall segments **100**B being one half of the length of the first wall segments **100**A to provide that the configuration of the modular field **1000** may be modified, i.e. be modular in nature. The length of the third wall segments **100**C may be adapted to adjust that the length of a door **400** or a goal **500** along with the lengths of adjacent third wall segments **100**C equal the length of two wall segments **100**A.

The modular field **1000** may include goals **500** located at opposite ends of the modular field **1000** and may include one or more doors **400** to allow egress onto the modular field **1000**. A tile field **600** may be provided within the perimeter formed by the wall segments **100**, doors **400**, and goals **500**. Interconnecting tiles **610** (shown in FIGS. **12-14**) may be connected to form the tile field **600** as discussed herein. The modular field **1000** may include various accessories such as benches **800**A, planter **800**B, storage bins **800**C, or the like positioned on the outside of the plurality of wall segments **100**. The accessories may be connected to the stanchions **200** and corner stanchions **300** as discussed herein. A handrail **800** may be connected to some of the stanchions **200** and corner stanchions **300**. The modular field **1000** may include lights **700** connected to the corner stanchions **300**. Additional lights may be connected to select stanchions **200**, if necessary. The modular field **1000** is shown in FIG. **1** in a soccer configuration for illustrative purposes and may be varied for other sports and/or activities as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure.

FIG. **2** shows a perspective view schematic of an embodiment of a stanchion **200**. The stanchion **200** includes a base plate **210** that is used to support the stanchion **200** on the ground or other supporting surface. One or more fasteners **201** may optionally fasten the base plate **210** to the ground or other support surface. A main support pole **220** is connected to the base plate **210** and extends substantially perpendicular, or vertical, with respect to the base plate **210**.

The main support pole **220** may be connected to the base plate **210** via various mechanisms as would be appreciated by one of ordinary skill in the art. For example, the main support pole **220** may be connected to a projection on the base plate **210** by a plurality of fasteners **202**, which enable the height of the main support pole **220** in reference to the base plate **210** to be adjusted. In other words, the main support pole **220** may include a telescopic height adjustment with reference to the base plate **210**. The main support pole **220** and corresponding portion of the base plate **210** may include national pipe thread (NPT) taper holes. The NPT holes may be tapered so that they get tighter and tighter the deeper a fastener is threaded into the hole. The use of tapered threaded holes may be able to be used to adjust the height of the main support pole **220** of the stanchion **200** in case the ground or support surface is not perfectly level. Various other types of fasteners may be used, such as, but not limited to, spring buttons, thumb knobs, a threaded rod, or the like.

The base plate **210** of the stanchion **200** includes an accessory rod **211** that extends substantially perpendicular, or vertical from, the base plate **210**. The accessory rod **211** enables the connection of various accessories to the base plate **210** of the stanchion **200**. For example, the accessory may be, but is not limited to, a bench **800**A (shown in FIG. **1**), a planter **800**B (shown in FIG. **1**), a storage bin **800**C (shown in FIG. **1**), a corner planter **800**D, or the like.

The stanchion **200** includes a secondary pole **250** that extends substantially perpendicular, or horizontal, from the main support pole **220**. A connector **251** is connected to the end of the secondary pole **250** and the connector **251** includes a first opening **252**A and a second opening **252**B configured to connect the secondary pole **250** to a handrail **900** (shown in FIG. **1**). Fasteners **203** may be used to secure a handrail **900** to the connector **251**. The stanchion **200** may include a support **253** connected between the main support pole **220** and the secondary pole **250**. The main support pole **220** may include a hook **221**, or other connector, located at or near the top of the main support pole **220**. The hook **221**, or the like, may be used to support electrical wires, support wires, a net, or the like as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure.

The stanchion **200** includes a back plate **230** connected to the main support pole **220**. The stanchion **200** also include a wall receptacles **231**, **232**, a front plate **240**, and a clamp **260**. The stanchion **200** is configured to capture two adjacent wall segments **100** that are aligned with each other. The stanchion **200** includes a gap **235** (best shown in FIG. **3**) between the back plate **230** and the front plate **240**. The gap **235** is configured to receive the edges of two adjacent wall segments **100**. The adjacent wall segments are captured between the back plate **230** and the front plate **240** and the between the wall receptacles **231**, **232** and the clamp **260**. The stanchion **200** includes a frame **270** (shown in FIG. **5**) connected to the main support pole **220** between the back plate **230** and the front plate **240**. The frame **270** is configured to close the gap between two adjacent wall segments **100** captured by the components of the stanchion **200**. The frame **270** may have a rectangular cross-section. Stanchions **200** may also be used to connect a door **400** to adjacent wall segments **100** as shown in FIG. **15**.

FIG. **3** shows a sideview schematic of the stanchion **200** of FIG. **2**. Receptacle **231** is configured to engage the bottom edge of a wall segment **100** that is positioned within the gap **235** between the rear plate **230** and the front plate **240**. The front plate **240** is removable, as is shown in FIG. **4**, and may be secured to the frame **270** via a plurality of fasteners **205**. The clamp **260** is also removable, as shown in FIG. **4**, and may be secured to the main support pole **220** and the frame **270** via a plurality of fasteners **204**. FIGS. **5** and **6** are close-up schematic views of the stanchion **200** showing the wall receptacles **231**, **232**. FIG. **5** also shows the frame **270**. The front plate **240** and clamp **260** may be removed to enable two wall segments **100** to be positioned within the receptacles **231**, **232** to abut against frame **270**. The clamp **260** and front plate **240** may then be secured to the frame **270** and main support pole **220** to capture the two adjacent wall segments **100** to form a wall of the modular field **1000** as shown in FIG. **7**.

FIG. **8** shows a perspective view of a schematic of an embodiment of a corner stanchion **300**. Corner stanchions **300** are used to connected together two adjacent wall segments **100** that are oriented perpendicular to each other. The corner stanchion **300** includes a base plate **310** that is used to support the corner stanchion **300** on the ground or other supporting surface. One or more fasteners **301** may optionally fasten the base plate **310** to the ground or other support surface. A main support pole **320** is connected to the base plate **310** and extends substantially perpendicular, or vertical, with respect to the base plate **310**. The main support pole **320** may be connected to the base plate **310** via various mechanisms as would be appreciated by one of ordinary skill in the art.

The base plate **310** of the corner stanchion **300** includes one or more accessory rods **311**A, **311**B that extend substantially perpendicular, or vertical from, the base plate **310**. The accessory rods **311**A, **311**B enable the connection of various accessories to the base plate **310** of the corner stanchion **300**. For example, the accessory may be, but is not limited to, a corner planter **800**D. The accessory could be a bench **800**A, a planter **800**B, a storage bin **800**C, or the like.

The corner stanchion **300** includes a secondary pole **350** that extends substantially perpendicular, or horizontal, from the main support pole **320**. A connector **351** is connected to the end of the secondary pole **350** and the connector **351** includes a first opening **352**A and a second opening **352**B configured to connect the secondary pole **350** to a handrail **900** (shown in FIG. **1**). Fasteners **303** may be used to secure a handrail **900** to the connector **351**. The stanchion **300** may include a support **353** connected between the main support pole **320** and the secondary pole **350**. The main support pole **320** may include a connector **321** located at the top of the main support pole **320** to connected various accessories to the main support pole **320** of the corner stanchion **300**. For example, a light **700** may be connected to the top of the main support pole **320** as shown in FIG. **1**.

The corner stanchion **300** includes a first back plate **330**A connected to the main support pole **320** and a second back plate **330**B connected to the main support pole **320**. The corner stanchion **300** also include a wall receptacles **331**, **332**, which are oriented perpendicular to each other. The corner stanchion **300** includes a first front plate **340**A and a second front plate **340**B. The first front plate **340**A includes a curved portion **341**A (best shown in FIG. **9**) configured to capture the upper edge of a wall segment **100**. Likewise, the second front plate **340**B includes a curved portion **341**B (best shown in FIG. **9**) configured to capture the upper edge of a wall segment **100**

FIG. **9** shows a close-up partially-exploded schematic of a portion of the corner stanchion **300**. The corner stanchion **300** is configured to capture two adjacent wall segments **100** that are oriented perpendicular to each other. The corner stanchion **300** includes a first gap **335**A between the first back plate **330**A and the first front plate **340**A and a second gap **335**B between the second back plate **330**B and the second front plate **330**B. The gaps **335**A, **335** are each configured to receive the edge of two adjacent wall segments **100** oriented perpendicular to each other. One wall segment **100** is captured between the first back plate **330**A and the first front plate **340**A and the between the first wall receptacle **331** and the curved portion **341**A of the first front plate **340**A. A perpendicular wall segment **100** is captured between the second back plate **330**B and the second front plate **340**B and the between the second wall receptacle **332** and the curved portion **341**B of the second front plate **340**B. A plurality of fasteners **305** may connect the first front plate **340**A to the first back plate **330**A and may connect the second front plate **340**B to the second back plate **330**B. The corner stanchion **300** may be used to capture two adjacent perpendicularly oriented wall segments **100** to form a corner of a modular field **1000** as shown in FIG. **10**.

FIG. **11** shows an embodiment of a goal **500**. The goal includes a frame **501** that may be disassembled for ease of

shipping. A net **502** is connected to the frame **501** to capture a ball that enters the goal **500**. The goal **500** may include a plurality of chain lengths **503** vertically suspended within the goal **500**. The chain lengths **503** may make an audible noise when struck by a ball or object entering the goal **500**. Stanchions **200** may be used to connect a goal **500** to adjacent wall segments **100** as shown in FIG. **16**.

FIG. **12** shows a top view schematic of an embodiment of a field tile **610**. The field tile **610** includes a top surface **611** with one or more projections **612** that project beyond the edge of the top surface **611**. The field tile **610** includes one or more recesses **613** below the top surface **611** of the field tile **610**. Each of the one or more recesses **613** are configured to receive a projection **612** from an adjacent field tile **610**. In this way, a field **600** may be comprised by a plurality of field tiles **610** connected together. The field tile **610** includes passages **614** through the field tile **610**. The passage **614** may enable electrical lines, hydraulic conduits, or the like to pass across a modular field **1000** undeath the tile field **600**. FIG. **13** shows a side view schematic of a field tile **610** and FIG. **14** shows a perspective view schematic of a field tile **610**. As discuss herein, the field tile **610** includes passages **614** that enable cables, wires, hoses, or the like to pass underneath the field tile **610**. Field tile **610** also includes one or more projections **612** and recesses **613** that enable adjacent field tiles **610** to be connected together to form a field **600** for a modular field **1000**.

Although this disclosure has been described in terms of certain preferred embodiments, other embodiments that are apparent to those of ordinary skill in the art, including embodiments that do not provide all of the features and advantages set forth herein, are also within the scope of this disclosure. Accordingly, the scope of the present disclosure is defined only by reference to the appended claims and equivalents thereof.

What is claimed is:

1. A modular field comprising:

a plurality of wall segments;

a plurality of stanchions, each stanchion of the plurality of stanchions having a base plate. a main support pole connected to the base plate, a channel receptacle connected to the base plate, a rear plate connected to the main support pole, a frame connected to the rear plate, the frame connected to a front plate, and a clamp, the clamp connected to the main support pole and to the frame; wherein the main support pole extends substantially perpendicular from the base plate;

at least one corner stanchion having a base plate, the base plate having a first channel receptacle and a second channel receptacle, a main support pole connected to the base plate of the at least one corner stanchion, a first rear plate of the at least one corner stanchion connected to the main support pole of the at least one corner stanchion, a second rear plate of the at least one corner stanchion connected to the main support pole of the at least one corner stanchion, a first front plate of the at least one corner stanchion, and a second front plate of the at least one corner stanchion, wherein the main support pole extends substantially perpendicular from the base plate of the at least one corner stanchion;

wherein each of the plurality of stanchions connects together two adjacent wall segments that are coplanar;

wherein the at least one corner stanchion connects together two adjacent wall segments that are oriented perpendicular to each other;

wherein the main support pole of each stanchion of the plurality of stanchions extends above a top edge of adjacent wall segments of the plurality of wall segments and wherein the clamp is positioned adjacent the top edge of the adjacent wall segments; and

wherein the main support pole is directly connected to the base plate of each stanchion of the plurality of stanchions.

2. The modular field of claim **1**, wherein a height of the main support pole may be varied with respect to the base plate.

3. The modular field of claim **1**, comprising a first goal and a first door, wherein the first goal and first door are each positioned between two adjacent wall segments of the plurality of wall segments.

4. The modular field of claim **3**, comprising a second goal positioned between two wall segments of the plurality of wall segments and a plurality of corner stanchions, wherein each corner stanchion of the plurality of corner stanchions connects together two adjacent wall segments that are oriented perpendicular to each other.

5. The modular field of claim **4**, wherein the front plate, rear plate, frame, and clamp of each stanchion of the plurality of stanchions captures a portion of two adjacent wall segments.

6. The modular field of claim **5**, wherein the channel receptacle is configured to receive two adjacent wall segments of the plurality of wall segments.

7. The modular field of claim **6**, wherein the frame of each stanchion of the plurality of stanchions is positioned between a gap formed between ends of two adjacent wall segments.

8. The modular field of claim **7**, wherein the frame has a rectangular cross-section.

9. The modular field of claim **7**, wherein one or more fasteners connect the front plate of each of the plurality of stanchions to the frame of the stanchion.

10. The modular field of claim **9**, wherein one or more of the stanchions of the plurality of stanchions includes an accessory rod that extends perpendicular from the base plate.

11. The modular field of claim **10**, further comprising an accessory connected to the accessory rod.

12. The modular field of claim **11**, wherein the accessory is a planter, storage bin, or bench.

13. The modular field of claim **10**, wherein each of the plurality of stanchions includes a secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole.

14. The modular field of claim **13**, further comprising a handrail connected to the secondary poles of each stanchions of the plurality of stanchions.

15. The modular field of claim **14**, wherein the first channel receptacle and the second channel receptacle of each corner stanchion of the plurality of corner stanchions is configured to receive one wall of the plurality of wall segments.

16. The modular field of claim **15**, wherein the first front plate, first rear plate, second front plate, and second rear plate of each corner stanchion of the plurality of corner stanchions captures a portion of two adjacent wall segments that are oriented perpendicular to each other.

17. The modular field of claim **16**, wherein each corner stanchion of the plurality of corner stanchions includes a first accessory rod that extends perpendicular from the base plate and a second accessory rod that extends perpendicular from the base plate.

18. The modular field of claim **17**, wherein each corner stanchion of the plurality of corner stanchions includes a

secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole.

19. The modular field of claim **18**, further comprising a handrail connected to the secondary poles of each of the corner stanchions of the plurality of corner stanchions.

20. The modular field of claim **19**, further comprising a light connected to each support pole of each corner stanchion of the plurality of corner stanchions.

21. The modular field of claim **20**, further comprising a second door, wherein the second door is positioned between two wall segments of the plurality of wall segments.

22. The modular field of claim **21**, wherein the plurality of wall segments, the first goal, the second goal, the first door, and the second door form a perimeter.

23. The modular field of claim **22**, further comprising a plurality of connected tiles positioned within the perimeter to form a field.

24. The modular field of claim **1**, wherein the channel receptacle of each stanchion of the plurality of stanchions is positioned between the front plate and the rear plate and wherein the rear plate is between the channel receptacle and the main support pole.

25. The modular field of claim **4**, further comprising a second door, wherein the second door is positioned between two wall segments of the plurality of wall segments.

26. The modular field of claim **25**, wherein the plurality of wall segments, the first goal, the second goal, the first door, and the second door form a perimeter.

27. The modular field of claim **26**, further comprising a plurality of connected tiles positioned within the perimeter to form a field.

28. A modular field comprising:

a plurality of wall segments;

a plurality of stanchions, each stanchion of the plurality of stanchions having a base plate, a main support pole connected to the base plate, a channel receptacle connected to the base plate, a rear plate connected to the main support pole, a frame connected to the rear plate, the frame connect to a front plate, and a clamp, the clamp connected to the main support pole and the frame; wherein the main support pole extends substantially perpendicular from the base plate;

at least one corner stanchion having a base plate, the base plate having a first channel receptacle and a second channel receptacle, a main support pole connected to the base plate of the at least one corner stanchion, a first rear plate of the at least one corner stanchion connected to the main support pole of the at least one corner stanchion, a second rear plate of the at least one corner stanchion connected to the main support pole of the at least one corner stanchion, a first front plate of the at least one corner stanchion, and a second front plate of the at least one corner stanchion, wherein the main support pole extends substantially perpendicular from the base plate of the at least one corner stanchion;

wherein each of the plurality of stanchions connects together two adjacent wall segments that are coplanar;

wherein the at least one corner stanchion connects together two adjacent wall segments that are oriented perpendicular to each other;

wherein one or more of the stanchions of the plurality of stanchions includes an accessory rod that extends perpendicular from the base plate;

an accessory connected to the accessory rod;

wherein the accessory is a planter, storage bin, or bench;

wherein the main support pole of each stanchion of the plurality of stanchions extends above top edges of adjacent wall segments of the plurality of wall segments and wherein the clamp is positioned adjacent the top edges of adjacent wall segments; and

wherein the main support pole is directly connected to the base plate of each stanchion of the plurality of stanchions.

29. The modular field of claim **28**, wherein each of the plurality of stanchions includes a secondary pole connected to the main support pole, the secondary pole being substantially perpendicular to the main support pole and further comprising a handrail connected to the secondary poles of each stanchions of the plurality of stanchions.

30. The modular field of claim **29**, further comprising a light connected to each support pole of each corner stanchion of the plurality of corner stanchions.

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(12) **United States Patent**
Frazier et al.

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(45) **Date of Patent: Aug. 20, 2024**

(54) **APPARATUS, SYSTEMS, AND METHODS FOR TURF TRIM STRIP**

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(73) Assignee: **Soccer Park, LLC**, Boise, ID (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 28 days.

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A47G 27/04 (2006.01)
E01C 13/08 (2006.01)

(52) **U.S. Cl.**
CPC ***E01C 13/08*** (2013.01)

(58) **Field of Classification Search**
CPC A47G 27/00; A47G 27/04; A47G 27/0406; A47G 27/0418; A47G 27/0462; A47G 27/0437; A47G 27/045; E01C 13/08; E01C 16/16; E01C 16/04; E01C 16/05; E01C 16/07–10
See application file for complete search history.

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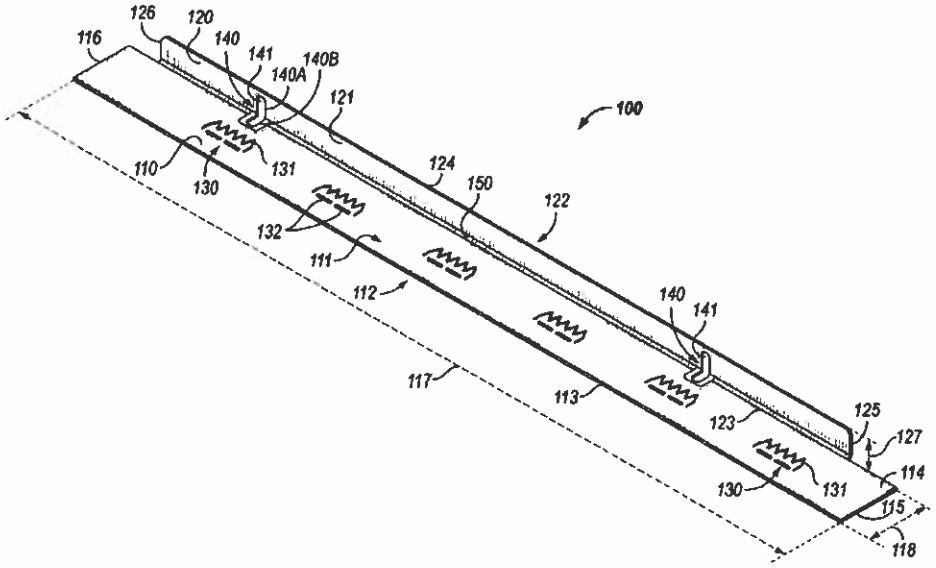
Primary Examiner — Chuck Y Mah
(74) *Attorney, Agent, or Firm* — Parsons Behle & Latimer

(57) **ABSTRACT**

Apparatuses, systems, and methods for a turf trim strip. The apparatus includes a first panel having first top and bottom surfaces, first and second edges, and first and second ends and a second panel having a second top and bottom surfaces, third and fourth edges, and third and fourth ends. The second top surface is oriented substantially perpendicular to the first top surface and the second edge is adjacent to the third edge. The apparatus includes a plurality of turf tabs that have a first position substantially parallel to the first top surface and a second position that is at an acute angle with respect to the first top surface. In the second position, the plurality of turf tabs extends towards the second top surface and may secure turf to the strip. A plurality of wall tabs may be used with fasteners to connect the apparatus to a wall.

20 Claims, 6 Drawing Sheets



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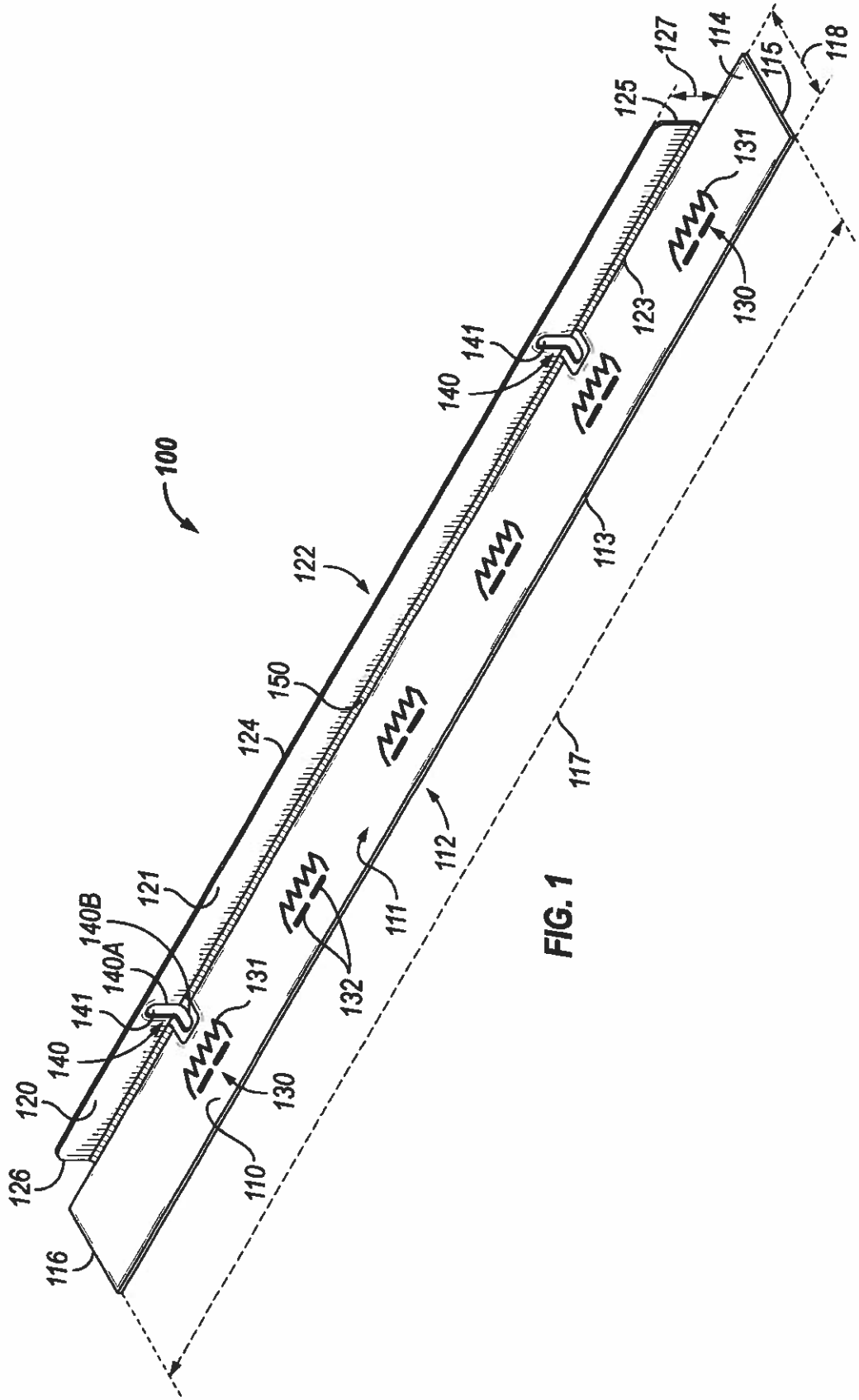
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FIG. 1

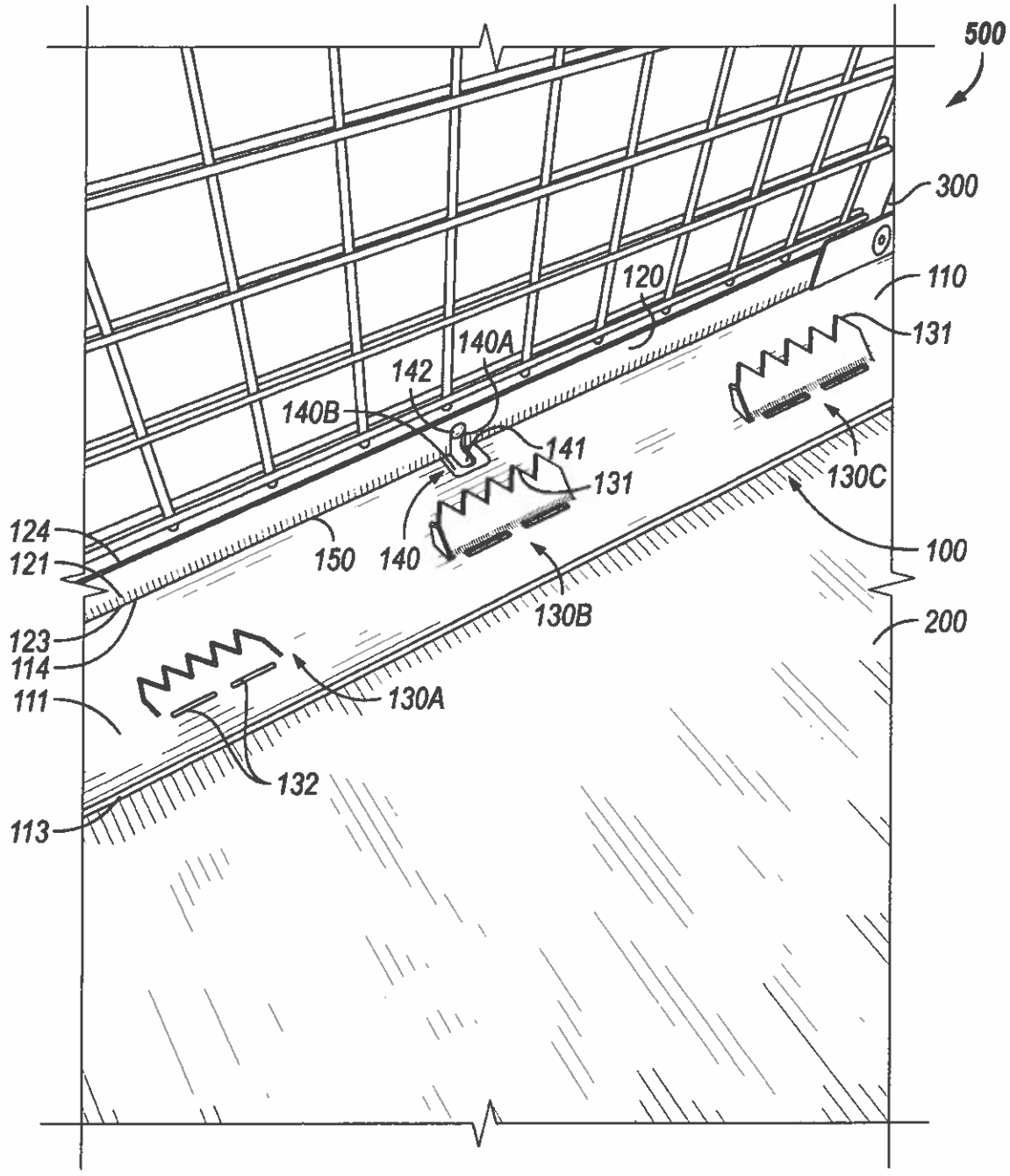
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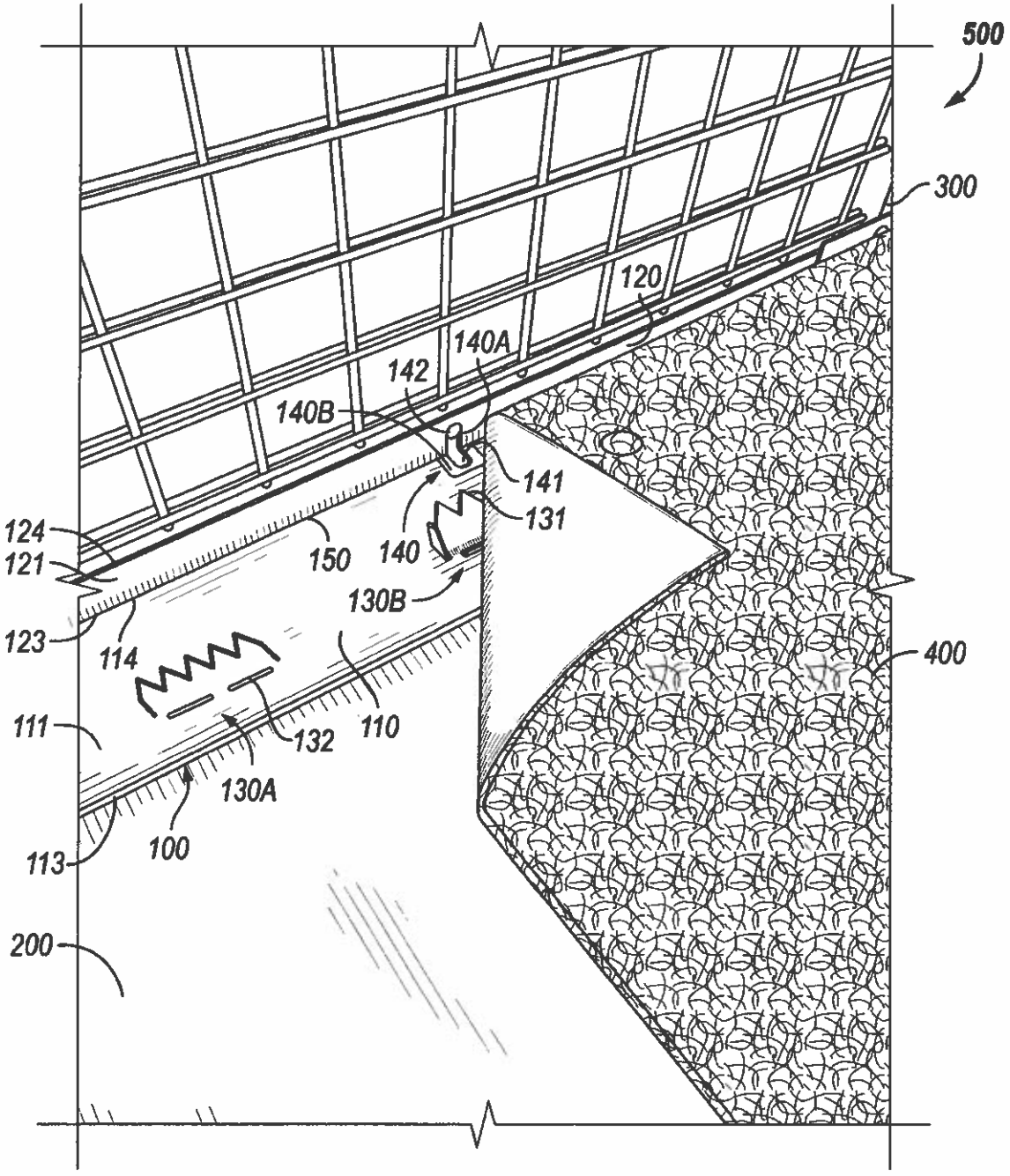
FIG. 2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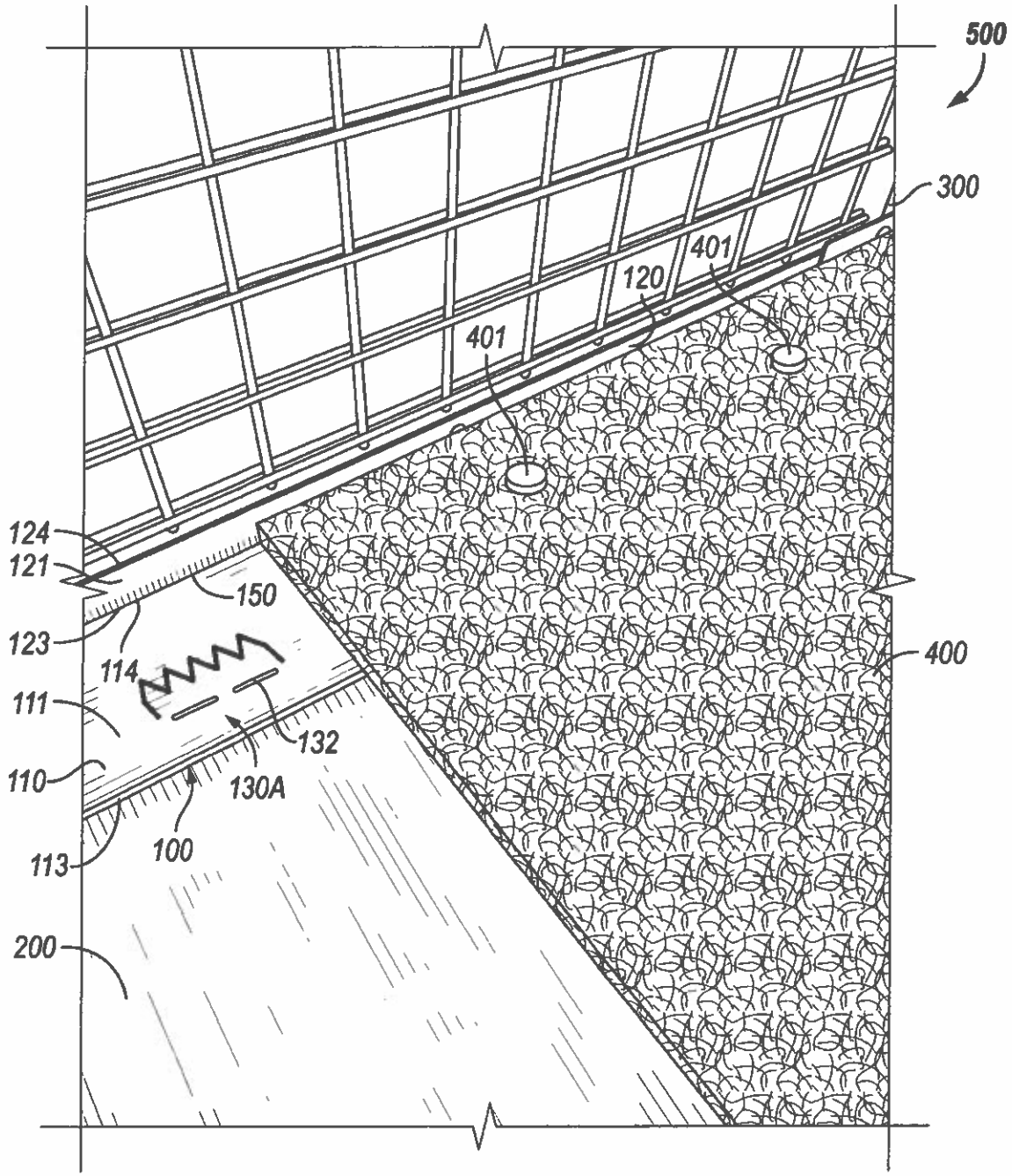
130A
100
113
200

FIG. 3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400

FIG. 4

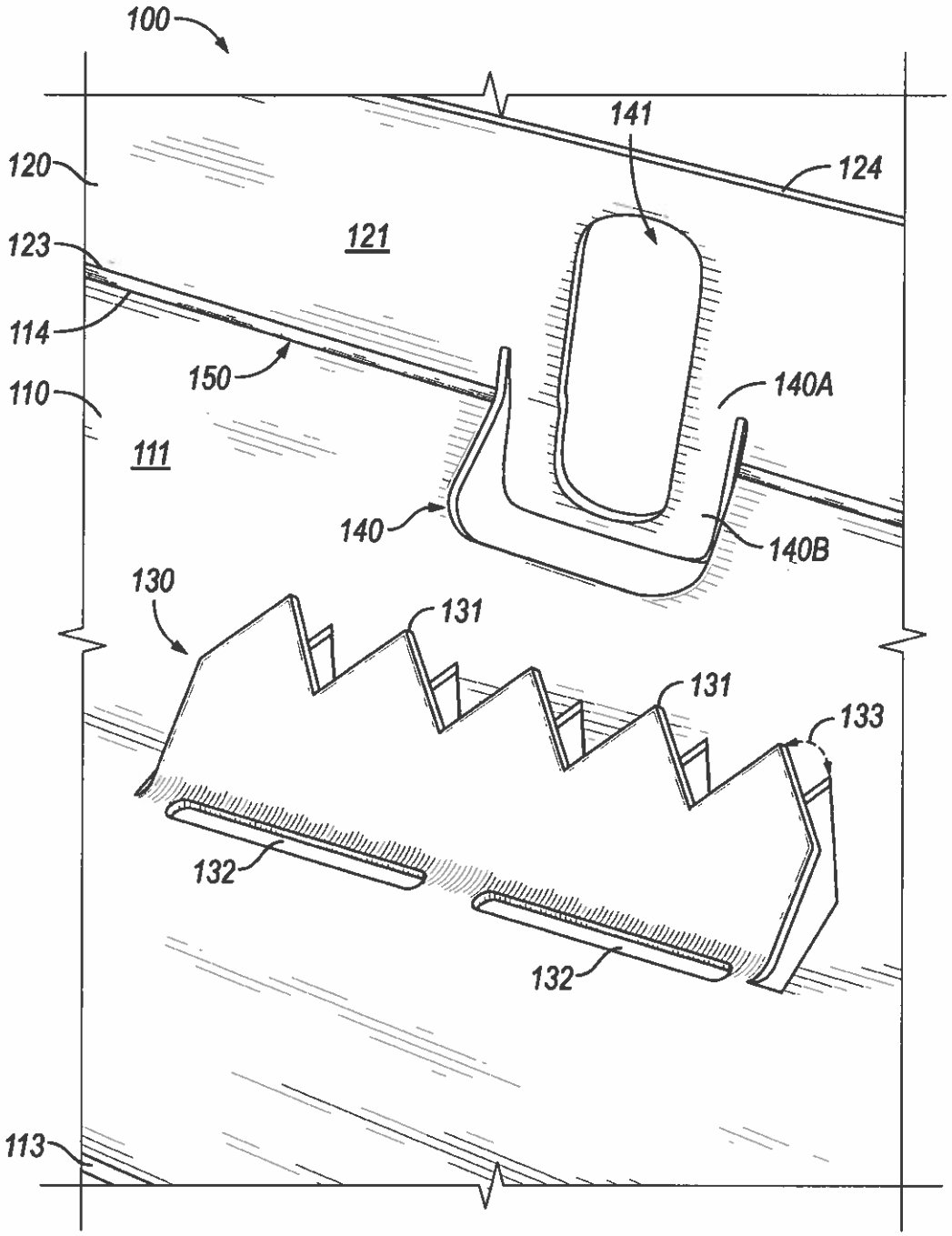
100
141
120
124
123
121
114
150
140A
110
111
140
140B
130
131
131
133
132
132
113

FIG. 5

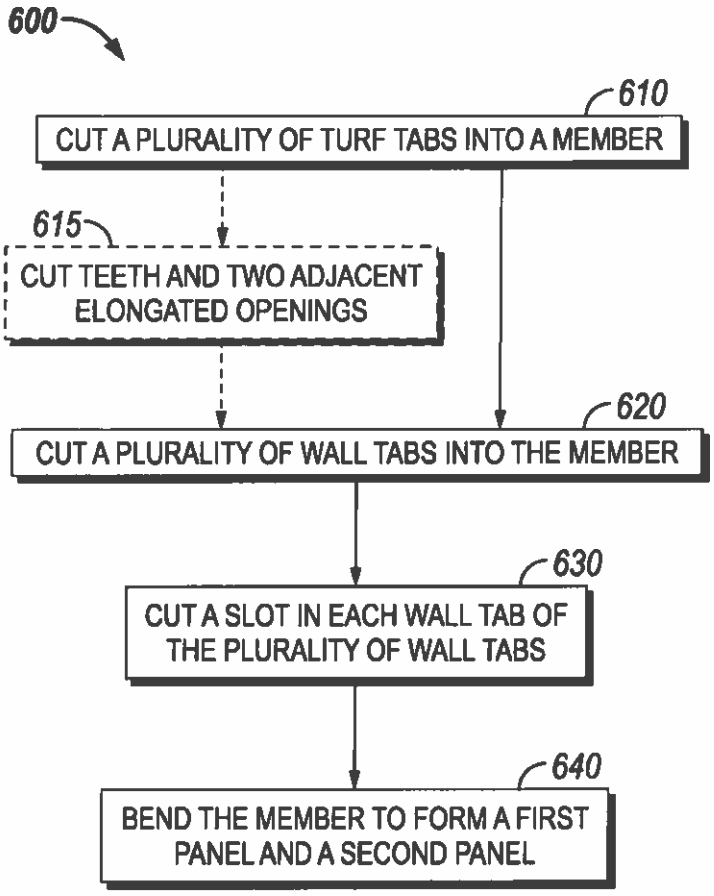
600
610
CUT A PLURALITY OF TURF TABS INTO A MEMBER
615
CUT TEETH AND TWO ADJACENT ELONGATED OPENINGS
620
CUT A PLURALITY OF WALL TABS INTO THE MEMBER
630
CUT A SLOT IN EACH WALL TAB OF THE PLURALITY OF WALL TABS
640
BEND THE MEMBER TO FORM A FIRST PANEL AND A SECOND PANEL

FIG. 6

APPARATUS, SYSTEMS, AND METHODS FOR TURF TRIM STRIP

Field of the Disclosure

The embodiments described herein relate to apparatuses, systems, and methods for a turf trim strip that may be used to secure turf. The turf may be used on various fields, which may be, but is not limited to, a soccer field.

BACKGROUND

Description of the Related Art

It may be important to have local sporting fields to permit individuals to exercise, engage in sporting contests, and/or engage in various outdoor activities. Sporting fields may use turf instead of grass. The turf is stretched to the edges of the fields, but over time may develop wrinkles and/or may move away from the perimeter of the field. Other disadvantages may exist.

SUMMARY

The present disclosure is directed to apparatuses, systems, and methods for a turf trim strip that overcomes at least one of the disadvantages discussed above. The turf trim strip may be used with, but is not limited to, a soccer field. The tuft trim strip may be connectable to walls of a modular field.

One embodiment of the disclosure is an apparatus having a first panel and a second panel. The first panel having a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end. The second panel having a second top surface, a second bottom surface, a third edge, a fourth edge, a third end, and a fourth end. The second top surface of the second panel is oriented substantially perpendicular to the first top surface of the first panel and the second edge of the first panel is adjacent to the third edge of the second panel. The apparatus includes a plurality of turf tabs along the first panel, the plurality of turf tabs being positioned between the first and second edges and between the first and second ends of the first panel. The plurality of turf tabs having a first position substantially parallel to the first top surface of the first panel and a second position that is at an acute angle with respect to the first top surface of the first panel. In the second position, the plurality of turf tabs extends away from the first top surface of the first panel and toward the second panel. The acute angle may be between approximately 10 degrees and 60 degrees. The acute angle may be between 30 degrees and 45 degrees.

The first and second edges of the apparatus may have a first length and the first and second ends may have a second length with the second length being less than the first length. The third and fourth edges of the apparatus may have the first length and the third and fourth ends of the apparatus may have a third length with the third length being less than the second length. The second edge of the first panel may be connected to the third edge of the second panel. The apparatus may include a bend, the bend forming the second edge of the first panel and the third edge of the second panel.

Each turf tab of the plurality of turf tabs of the apparatus may include a plurality of teeth. The apparatus may include a plurality of wall tabs, each wall tab of the plurality of wall tabs includes a slot. The slot of each wall tab of the plurality of wall tabs may be formed in both the first panel and the second panel. The plurality of wall tabs may have an initial position and a bent position. In the initial position, a first portion of each wall tab of the plurality of wall tabs may be substantially parallel to the second panel and a second portion of each wall tab of the plurality of wall tabs may be substantially parallel to the first panel. In the bent position, the second portion of each wall tab may be substantially perpendicular to the first bottom surface of the first panel and may extend away from the first bottom surface of the first panel. Each turf tab of the plurality of turf tabs may include two elongated openings formed in the first panel.

One embodiment of the present disclosure is a system having a first panel, a second panel, a portion of turf, and a plurality of turf tabs. The first panel includes a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end. The second panel includes a second top surface, a second bottom surface, third edge, a fourth edge, a third end, and a fourth end, wherein the second top surface of the second panel is oriented perpendicular to the first top surface of the first panel and the second edge of the first panel is adjacent to the third edge of the second panel. The plurality of turf tabs are along the first panel. The plurality of turf tabs are positioned between the first and second edges and between the first and second ends of the first panel. The plurality of turf tabs have a first position substantially parallel to the first top surface of the first panel and a second position that is at an acute angle with respect to the first top surface of the first panel. The plurality of turf tabs extend away from the first top surface of the first panel in the second position and secure the portion of turf to the first panel.

The system may include a portion of a pad layer. The first panel may be positioned between the portion of the pad layer and the portion of the turf. The system may include a first plurality of fasteners that secure the portion of the turf to the first panel. The first panel and the second panel may be a unitary member. The system may include a plurality of wall tabs positioned between the first and second ends of the first panel and between the third and fourth ends of the second panel. Each wall tab may include a slot. The slot of each wall tab may be formed in both the first panel and the second panel. The system may include a wall portion. The wall portion may be connected to the second panel via a second plurality of fasteners. Each fastener of the second plurality of fasteners may be positioned through a respective one of the slots of the plurality of wall tabs. Each turf tab may include a plurality of teeth.

One embodiment of the disclosure is a method. The method comprises cutting a plurality of turf tabs into a member. The method includes cutting a plurality of wall tabs into the member. The method includes cutting a slot in each wall tab of the plurality of wall tabs. The method includes bending the member to form a first panel and a second panel.

The first panel includes a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end. The second panel includes a second top surface, a second bottom surface, third edge, a fourth edge, a third end, and a fourth end. The second top surface of the second panel is oriented perpendicular to the first top surface of the first panel and the second edge of the first panel is adjacent to the third edge of the second panel. The plurality of turf tabs have a first position substantially parallel to the first top surface of the first panel and a second position that is at an acute angle with respect to the first top surface of the first panel. A first portion of each slot is in the first panel and a second portion of each slot is in the second panel. The plurality of wall tabs have an initial position and a bent position. In the initial position, a first portion of each wall tab of the plurality of wall tabs is substantially parallel to the second panel and a

second portion of each wall tab of the plurality of wall tabs is substantially parallel to the first panel. In the bent position, the second portion of each wall tab is substantially perpendicular to the first bottom surface of the first panel and extends away from the first bottom surface of the first panel.

The method may include cutting teeth and two adjacent elongated openings for each turf tab of the plurality of turf tabs. The method may include using a laser cutter to cut the plurality of turf tabs, cut the plurality of wall tabs, and cut the slot in each of the wall tabs.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** shows a perspective view of an embodiment of an apparatus of the disclosure.

FIG. **2** is a schematic of an embodiment of a system of the disclosure.

FIG. **3** is a schematic of an embodiment of a system of the disclosure.

FIG. **4** is a schematic of an embodiment of a system of the disclosure.

FIG. **5** is a close-up partial view of an embodiment of an apparatus of the disclosure.

FIG. **6** is a flow chart of an embodiment of a method of the disclosure.

While the disclosure is susceptible to various modifications and alternative forms, specific embodiments have been shown by way of example in the drawings and will be described in detail herein. However, it should be understood that the disclosure is not intended to be limited to the particular forms disclosed. Rather, the intention is to cover all modifications, equivalents and alternatives falling within the scope of the invention as defined by the appended claims.

DETAILED DESCRIPTION

FIG. **1** shows a perspective view of an embodiment of an apparatus **100**, also referred to herein as a turf trim strip. The apparatus **100** includes a first panel **110** and a second panel **120**. The first panel **110** has a first top surface **111**, a first bottom surface **112**, a first edge **113**, a second edge **114**, a first end **115**, and a second end **116**. The second panel **120** includes a second top surface **121**, a second bottom surface **122**, a third edge **123**, a fourth edge **124**, a third end **125**, and a fourth end **126**.

The second top surface **121** of the second panel **120** is oriented substantially perpendicular to the first top surface **111** of the first panel **110**. The second edge **114** of the first panel **110** is adjacent to the third edge **123** of the second panel **120**. The second edge **114** of the first panel **110** and the third edge **123** of the second panel **120** may be formed by a bend **150** between the panels **110**, **120**. In other words, the first and second panels **110**, **120** may be comprised of a unitary member and may be formed by bending the unitary member to form the first and second panels **110**, **120** as well as the second edge **114** and the third edge **123**. Alternatively, the first and second panels **110**, **120** may be separate members that are connected together along the second edge **114** and the third edge **123** as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure.

The apparatus **100** includes a plurality of turf tabs **130** along the first panel **110**. The plurality of turf tabs **130** are positioned between the first and second edges **113**, **114** and between the first and second ends **115**, **116** of the first panel **110**. The plurality of turf tabs **130** having a first position substantially parallel to the first top surface **111** of the first panel **110** as shown in FIG. **1**. The plurality of turf tabs **130** have a second position (shown in FIGS. **2-5**) that is at an acute angle **133** (best shown in FIG. **5**) with respect to the first top surface **111** of the first panel **110**. In the second position, the plurality of turf tabs **130** extends away from the first top surface **111** of the first panel **110**. The turf tabs **130** in the second position may be used to secure turf used in a playing field. Turf may be stretched from wall to wall on a field. Over time, the turf may tend to contract and move away from the exterior walls. The turf tabs **130** of the apparatus **100** may be used to secure the turf when in the second position.

The first and second edges **113**, **114** of the apparatus **100** have a first length **117** and the first and second ends **115**, **116** have a second length **118**. The second length **118** is less than the first length **117**. The third and fourth edges **123**, **124** of the apparatus **100** may also have the first length **117** or may a length less than the first length **117**. The third and fourth ends **125**, **126** of the apparatus **100** have a third length **127** with the third length **127** being less than the second length **118**.

Each turf tab **130** includes a plurality of teeth **131**. The teeth **131** may be used to secure a portion of turf. The configuration of the teeth **131** are shown for illustrative purposes and may be varied as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure. For example, the number, shape, configuration and/or location of the teeth **131** may be varied. Other shapes may be used in connected with the turf tab **130** to secure turf to the apparatus **100**. The turf tabs **130** in the first panel **110** may include two elongated openings **132** through the first panel **110** adjacent to the teeth **131**. The elongated openings **132** are configured to aid in bending the turf tabs **130** from the first position (shown in FIG. **1**) to the second position (shown in FIG. **2**). The size, shape, number, and/or configuration of the elongated openings **132** may be varied as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure.

The apparatus **100** includes a plurality of wall tabs **140**. Each wall tab **140** includes a slot **141**. The slot **141** of each wall tab **140** is formed in both the first panel **110** and the second panel **120**. The wall tabs **140** have an initial position (shown in FIG. **1**) and a bent position (shown in FIG. **5**). In the initial position, a first portion **140A** of each wall tab **140** is substantially parallel to the second panel **120** and a second portion **140B** of each wall tab **140** is substantially parallel to the first panel **110**. In the bent position (shown in FIG. **5**), the second portion **140B** of each wall tab **140** is substantially perpendicular to the first bottom surface **112** of the first panel **110** and may extend away from the first bottom surface **112** of the first panel **110**. A fastener may be inserted into the slot **141** of the wall tab **140** to secure the apparatus **100** to a wall as discussed herein. The wall tab **140** in the bent position enables a fastener to be inserted into the slot **141** below the first panel **110** if needed due to the thickness of a pad layer as discussed herein.

FIGS. **2-4** show an embodiment of a system **500** of the present disclosure. The system includes a turf trim strip **100** that includes first panel **110**, a second panel **120**, and a plurality of turf tabs **130A**, **130B**, and **130C** (collectively **130**). The turf trim strip **100** also includes a one or more wall tabs **140**. The system **500** includes at least a portion of turf **400** (shown in FIGS. **3** and **4**), at least a portion of a pad layer **200**, and one or more walls **300**.

The first panel **110** of the turf trim strip **100** includes a first top surface **111**, a first bottom surface **112** (shown in FIG. **1**),

a first edge **113**, a second edge **114**, a first end **115** (shown in FIG. **1**), and a second end **116** (shown in FIG. **1**). The second panel **120** includes a second top surface **121**, a second bottom surface **122** (shown in FIG. **1**), third edge **123**, a fourth edge **124**, a third end **125** (shown in FIG. **1**), and a fourth end **126** (shown in FIG. **1**). The second top surface **121** of the second panel **122** is oriented substantially perpendicular to the first top surface **111** of the first panel **110**. The second edge **114** of the first panel **110** is adjacent to the third edge **123** of the second panel **120**. As discussed herein, the first and second panels **110**, **120** may be formed by bending a unitary member to create the first and second panels **110**, **120**.

The turf trim strip **100** includes a plurality of turf tabs **130** along the first panel **110**. The plurality of turf tabs **130** are positioned between the first and second edges **113**, **114** and between the first and second ends **115**, **116** of the first panel **110**. The plurality of turf tabs **130** have a first position substantially parallel to the first top surface **111** of the first panel **110** and a second position that is at an acute angle **133** with respect to the first top surface **111** of the first panel **110**. As used herein, the acute angle **133** is an angle that is less than 90 degrees and more than 0 degrees measured between the first top surface **111** of the first panel **110** and the bottom surface of the turf tab **130**. In one embodiment, the acute angle **133** is between 30 and 45 degrees. In another embodiment, the acute angle **133** is between approximately 10 and approximately 60 degrees. The plurality of turf tabs **130** extend away from the first top surface **111** of the first panel **110** and toward the second panel **120** in the second position and may be used to secure the portion of turf **400** to the first panel **110**. The turf tabs **130** om the second position may prevent the turf **400** from pulling or moving away from the wall **300**. Turf tab **130**A is shown in the first position and turf tabs **130**B, **130**C are shown in the second position. The teeth **131** of turf tabs **130**B, **130**C are extended away from the first panel **110** and may be used to secure the turf **400**.

The system **500** include a portion of a pad layer **200**. The pad layer **200** is used to provide cushion to the playing field as would be appreciated by one of ordinary skill in the art having the benefit of this disclosure. The first panel **110** of the turf trim strip **100** is positioned between the portion of the pad layer **200** and the portion of the turf **400**. The system **500** includes a first plurality of fasteners **401** (shown in FIG. **4**) that secure the portion of the turf **400** to the first panel **110** of the turf trim strip **100**. As discussed herein, the turf tabs **130** may be used to prevent the turf **400** from contracting away from the wall **300**, which is connected to the turf trim strip **100** as discussed herein. In addition, the plurality of fasteners **401** may be used to also secure the turf **400** to the turf trim strip **100**. The fasteners may be screwed down through the turf **400** and into the first panel **110**, which may be made of aluminum or the like. The plurality of fasteners **401** are shown for illustrative purposes and may be varied as would be appreciated by one of ordinary skill in the art. For example, the size, shape, location, number, and/or configuration may be varied.

The turf trim strip **100** includes a plurality of wall tabs **140** positioned between the first and second ends **115**, **116** of the first panel **110** and between the third and fourth ends **125**,**126** of the second panel **120**. Each wall tab **140** includes a slot **141**. The slot **141** of each wall tab **140** is formed in both the first panel **110** and the second panel **120**. A wall **300** of the system **500** is connected to the second panel **120** of the turf trim strip via a second plurality of fasteners **142**. Each fastener **142** of the second plurality of fasteners **142** is positioned through a respective one of the slots **141** of the plurality of wall tabs **140**.

As the thickness of the padding layer **200** may vary depending on the application, it may be necessary to connect the wall **300** to the turf trim strip **100** below the first panel **110** rather than above the first panel **110**. The wall tabs **140** are configured to have an initial position (shown in FIG. **2**) and a bent position (shown in FIG. **5**). FIG. **2** shows a fastener **142** inserted through the slot **141** of the wall tab **140** above the first panel **110** of the turf trim strip **100**. In this instance, the wall tab **140** remains in the initial position. However, it may be necessary to bend the wall tab **140** to the bent position so that a fastener **142** may be inserted through the slot **141** below the first panel **110** as shown in FIG. **5**. The elongated slot **141** enables the turf trim strip **100** to be used to connect to a wall **300** of a playing field having various thickness of padding layer **200**.

FIG. **4** shows a portion of turf **400** being positioned against the wall **300** and turf trim strip **100** of a system **500**. The turf tab **130** has been bent to the second position to secure the turf **400** in place adjacent to the wall **300**. FIG. **5** shows a portion of turf **400** in place on the turf trim strip **100** against the wall **300**. In addition to the turf tabs **130**, a second plurality of fasteners **401** secure the turf **400** to the turf trim strip **100**, which is connected to the wall **300** via fasteners **142** through slots **141** in the wall tabs **140**.

FIG. **5** shows a closeup view of a portion of the turf trim strip **100**. FIG. **5** shows a turf tab **130** in the second position with the teeth **131** extending away from the first top surface **111** of the first panel **110**. FIG. **5** also shows a wall tab **140** in the bent position. The second portion **140**B of the wall tab **140** has been bent downward so that the second portion **140**B of the wall tab **140** is substantially parallel with the second panel **120** and extends away from the first bottom surface **112** of the first panel **110**. In this configuration, the slot **141** extends both above and below the first panel **110** and enables a fastener (not shown in FIG. **5**) to be inserted into the slot **141** at various heights include below the first panel **110**.

FIG. **6** is a flow chart of one embodiment of a method **600** of the present disclosure. The method **600** includes cutting a plurality of turf tabs into a member, at **610**. The method **600** includes cutting a plurality of wall tabs into the member, at **620**. The method **600** includes cutting a slot in each wall tab of the plurality of wall tabs, at **630**. The method **600** includes bending the member to form a first panel and a second panel, at **640**. The method **600** may include cutting teeth and two adjacent elongated openings, at **615**.

As discussed above, the first panel includes a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end. The second panel includes a second top surface, a second bottom surface, a third edge, a fourth edge, a third end, and a fourth end. The second top surface of the second panel is oriented substantially perpendicular to the first top surface of the first panel.

The second edge of the first panel is adjacent to the third edge of the second panel. The plurality of turf tabs have a first position substantially parallel to the first top surface of the first panel. The plurality of turf tabs have a second position that is at an acute angle with respect to the first top surface of the first panel. In the second position, the plurality of turf tabs extends away from the first top surface of the first panel. The turf tabs in the second position may be used to secure turf used in a playing field.

The slot of each wall tab is formed in both the first panel and the second panel. The wall tabs have an initial position

and a bent position. In the initial position, a first portion of each wall tab is substantially parallel to the second panel and a second portion of each wall tab is substantially parallel to the first panel. In the bent position, the second portion of each wall tab is substantially perpendicular to the first bottom surface of the first panel extends away from the first bottom surface of the first panel. A fastener may be inserted into the slot of the wall tab to secure the member to a wall.

Although this disclosure has been described in terms of certain preferred embodiments, other embodiments that are apparent to those of ordinary skill in the art, including embodiments that do not provide all of the features and advantages set forth herein, are also within the scope of this disclosure. Accordingly, the scope of the present disclosure is defined only by reference to the appended claims and equivalents thereof.

What is claimed is:

1. An apparatus comprising:

a first panel having a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end;

a second panel having a second top surface, a second bottom surface, a third edge, a fourth edge, a third end, and a fourth end, wherein the second top surface of the second panel is oriented substantially perpendicular to the first top surface of the first panel and the second edge of the first panel is adjacent to the third edge of the second panel; and

a plurality of turf tabs along the first panel, the plurality of turf tabs being positioned between the first and second edges and between the first and second ends of the first panel, the plurality of turf tabs having a first position substantially parallel to the first top surface of the first panel and a second position that is at an acute angle with respect to the first top surface of the first panel, wherein in the second position the plurality of turf tabs extends away from the first top surface of the first panel; and

a plurality of wall tabs, each wall tab of the plurality of wall tabs includes a slot.

2. The apparatus of claim 1, wherein the first and second edges having a first length and the first and second ends having a second length, the second length being less than the first length, wherein the third and fourth edges having the first length and the third and fourth ends having a third length, and wherein the third length is less than the second length.

3. The apparatus of claim 1, wherein the second edge of the first panel is connected to the third edge of the second panel.

4. The apparatus of claim 3, further comprising a bend, the bend forming the second edge of the first panel and the third edge of the second panel.

5. The apparatus of claim 1, wherein each turf tab of the plurality of turf tabs comprises a plurality of teeth.

6. The apparatus of claim 5, wherein the acute angle is between approximately 10 degrees and approximately 60 degrees.

7. The apparatus of claim 6, wherein the acute angle is between 30 degrees and 45 degrees.

8. The apparatus of claim 1, wherein the slot of each wall tab of the plurality of wall tabs is formed in both the first panel and the second panel.

9. The apparatus of claim 8, further comprising the plurality of wall tabs having an initial position and a bent position, wherein in the initial position a first portion of each wall tab of the plurality of wall tabs is substantially parallel to the second panel and a second portion of each wall tab of the plurality of wall tabs is substantially parallel to the first panel and wherein in the bent position the second portion of each wall tab is substantially perpendicular to the first bottom surface of the first panel and extends away from the first bottom surface of the first panel.

10. The apparatus of claim 5, wherein each turf tab of the plurality of turf tabs further comprises two elongated openings formed in the first panel.

11. A system comprising:

a first panel having a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end;

a second panel having a second top surface, a second bottom surface, third edge, a fourth edge, a third end, and a fourth end, wherein the second top surface of the second panel is oriented perpendicular to the first top surface of the first panel and the second edge of the first panel is adjacent to the third edge of the second panel;

a portion of turf;

a plurality of turf tabs along the first panel, the plurality of turf tabs being positioned between the first and second edges and between the first and second ends of the first panel, the plurality of turf tabs having a first position substantially parallel to the first top surface of the first panel and a second position that is at an acute angle with respect to the first top surface of the first panel, wherein the plurality of turf tabs extend away from the first top surface of the first panel in the second position secure the portion of turf to the first panel; and

a plurality of wall tabs positioned between the first and second ends of the first panel and between the third and fourth ends of the second panel, wherein each wall tab of the plurality of wall tabs includes a slot.

12. The system of claim 11, further comprising a portion of a pad layer, wherein the first panel is positioned between the portion of the pad layer and the portion of the turf.

13. The system of claim 12, further comprising a first plurality of fasteners, wherein the first plurality of fasteners secure the portion of turf to the first panel.

14. The system of claim 13, wherein the first panel and the second panel is a unitary member.

15. The system of claim 13, wherein the slot of each wall tab of the plurality of wall tabs is formed in both the first panel and the second panel.

16. The system of claim 15, further comprising a wall portion, wherein the wall portion is connected to the second panel via a second plurality of fasteners, each fastener of the second plurality of fasteners is positioned through a respective one of the slots of the plurality of wall tabs.

17. The system of claim 16, wherein each turf tab of the plurality of turf tabs comprises a plurality of teeth.

18. A method comprising:

cutting a plurality of turf tabs into a member;

cutting a plurality of wall tabs into the member;

cutting a slot in each wall tab of the plurality of wall tabs;

bending the member to form a first panel and a second panel, the first panel having a first top surface, a first bottom surface, a first edge, a second edge, a first end, and a second end, the second panel having a second top surface, a second bottom surface, third edge, a fourth edge, a third end, and a fourth end, wherein the second top surface of the second panel is oriented perpendicular to the first top surface of the first panel and the second edge of the first panel is adjacent to the third edge of the second panel;

wherein the plurality of turf tabs have a first position substantially parallel to the first top surface of the first panel and a second position that is at an acute angle with respect to the first top surface of the first panel;

wherein a first portion of each slot is in the first panel and a second portion of each slot is in the second panel; and

wherein the plurality of wall tabs have an initial position and a bent position, wherein in the initial position a first portion of each wall tab of the plurality of wall tabs is substantially parallel to the second panel and a second portion of each wall tab of the plurality of wall tabs is substantially parallel to the first panel and wherein in the bent position the second portion of each wall tab is substantially perpendicular to the first bottom surface of the first panel and extends away from the first bottom surface of the first panel.

19. The method of claim **18**, wherein cutting the plurality of turf tabs into the member further comprises cutting teeth and two adjacent elongated openings for each turf tab of the plurality of turf tabs.

20. The method of claim **19**, wherein cutting the plurality of turf tabs into the member and wherein cutting the plurality of wall tabs and cutting the slot in each wall tab of the plurality of wall tabs further comprises using a laser cutter.

* * * * *

US00D995670S

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Frazier et al.

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(54) **SOCCER GOAL**

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

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(52) **U.S. Cl.**
USPC **D21/699**

(58) **Field of Classification Search**
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CPC A63B 63/00; A63B 63/004; A63B 63/006; A63B 63/007; A63B 63/008; A63B 57/40; A63B 2063/0086; A63B 69/0095
See application file for complete search history.

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(Continued)

Primary Examiner — Mehri F Bajoul
(74) *Attorney, Agent, or Firm* — Parsons Behle & Latimer

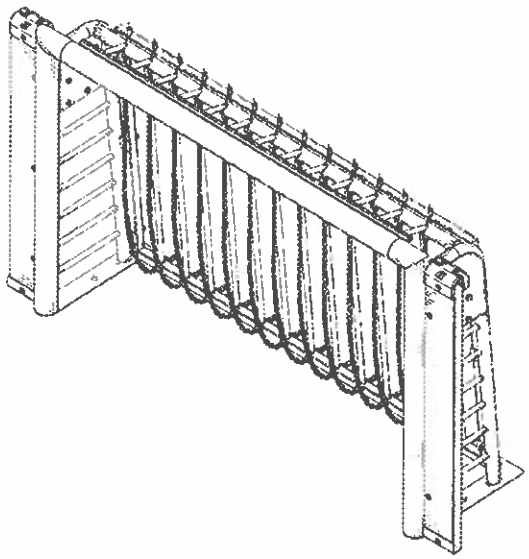
(57) **CLAIM**

The ornamental design for a soccer goal, as shown.

DESCRIPTION

FIG. **1** is a perspective view showing the soccer goal embodying the new design.
FIG. **2** is a front elevational view thereof.
FIG. **3** is a rear elevational view thereof.
FIG. **4** is a left side elevational view thereof.
FIG. **5** is a right side elevational view thereof.
FIG. **6** is a top plan view thereof; and,
FIG. **7** is a bottom plan view thereof.

1 Claim, 5 Drawing Sheets



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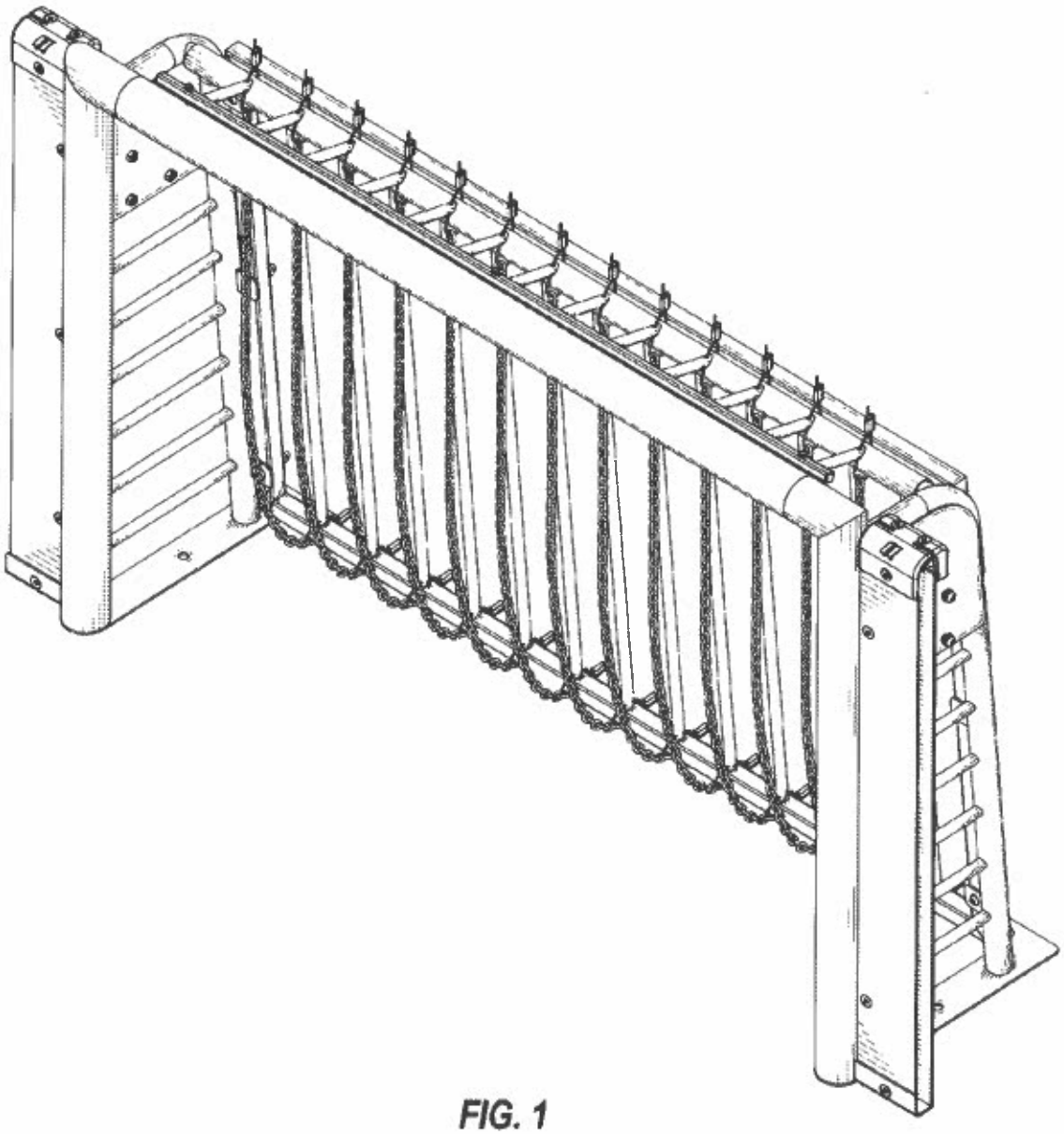


FIG. 1

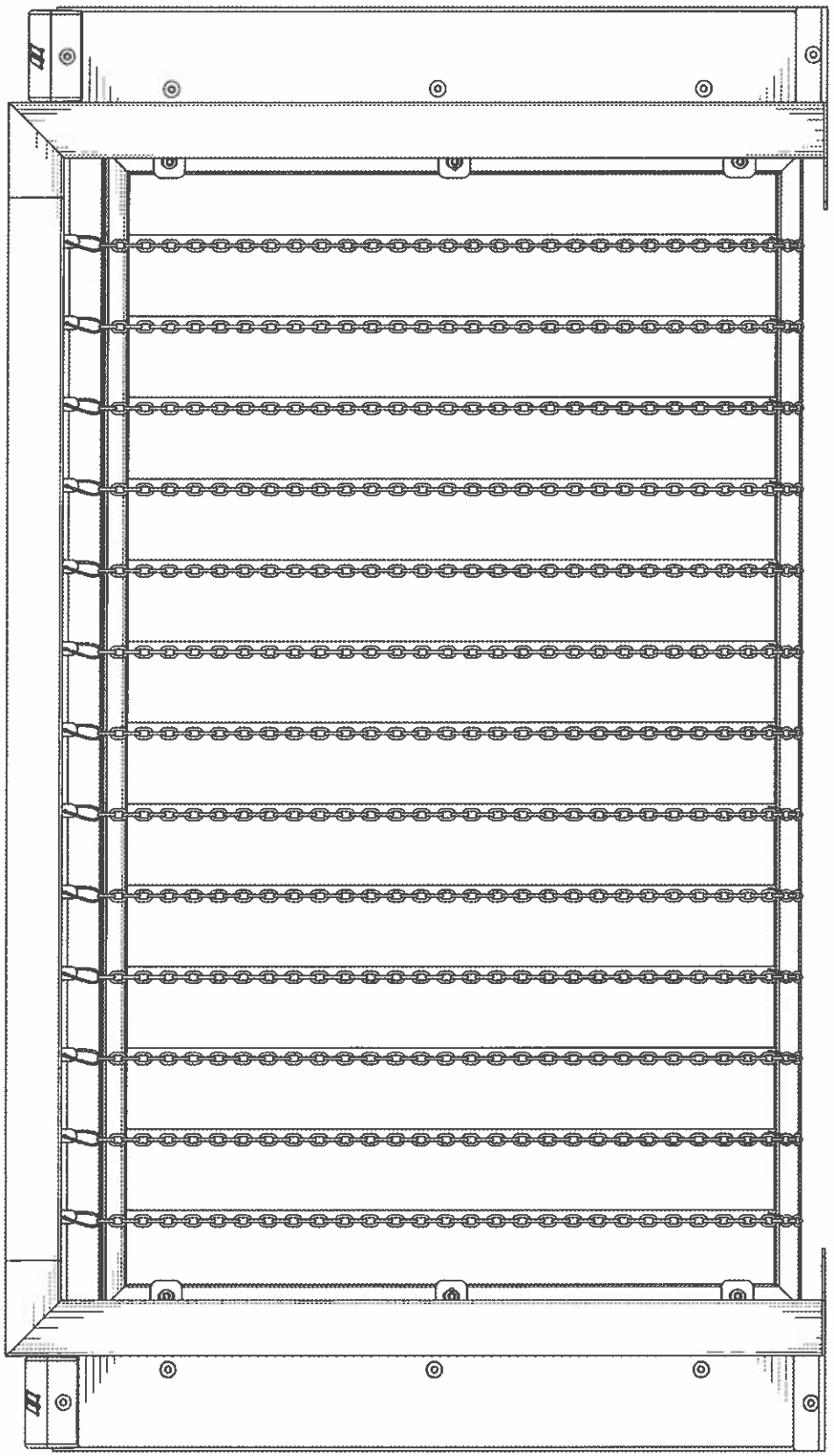


FIG. 2

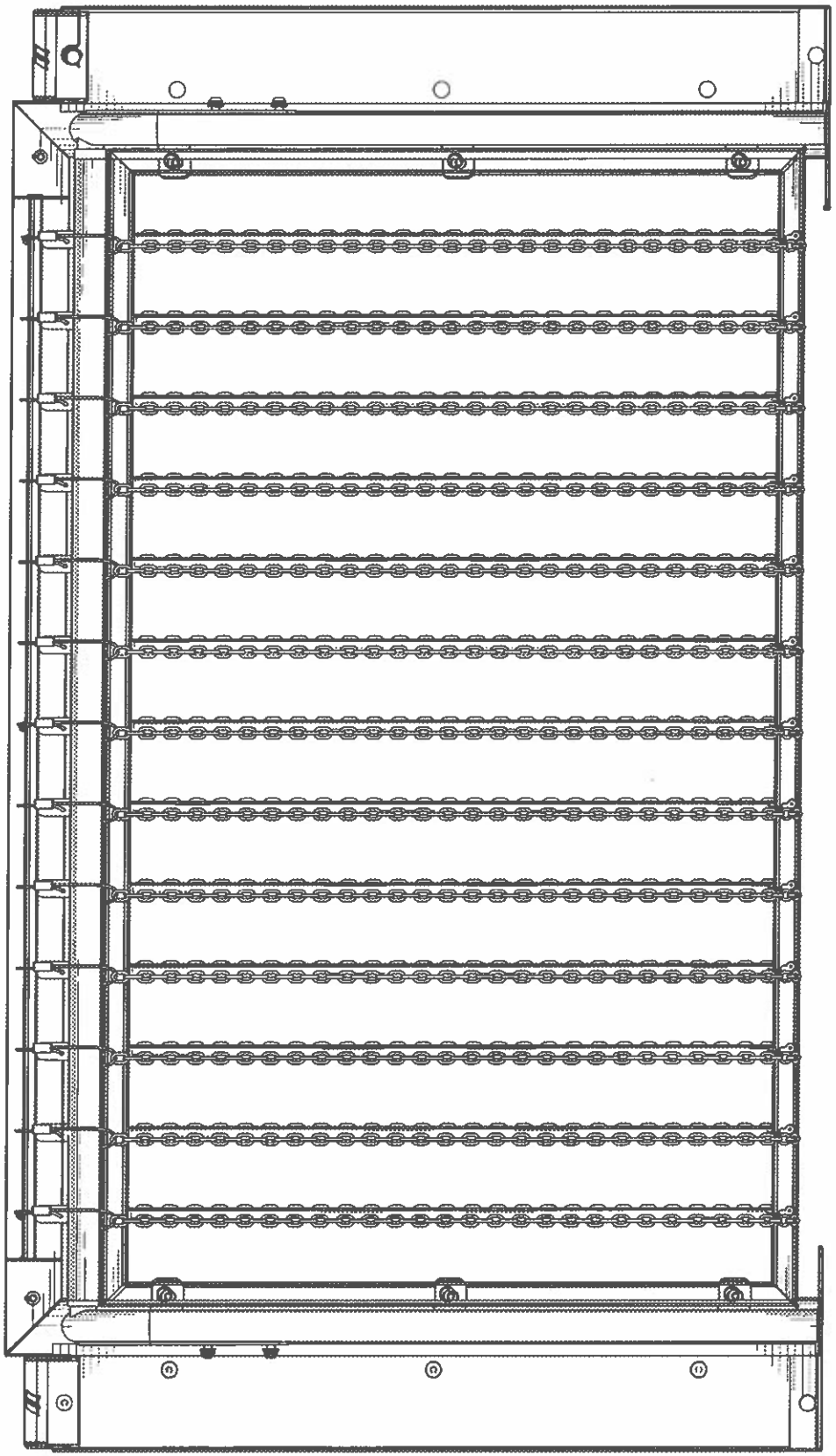


FIG. 3

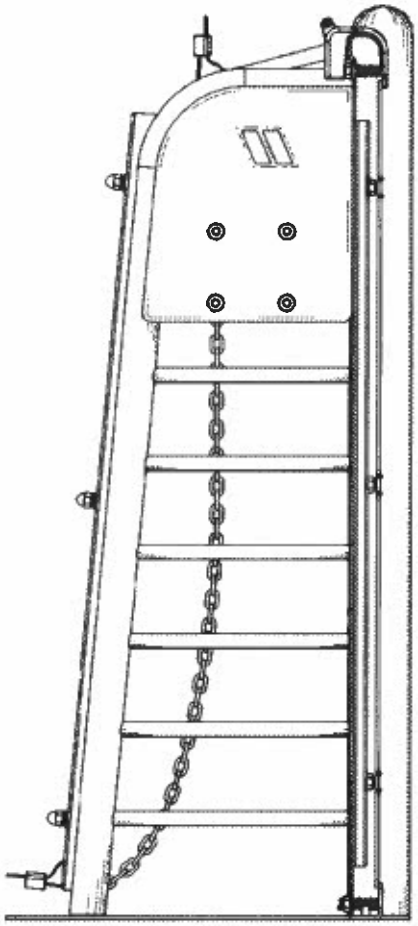


FIG. 4

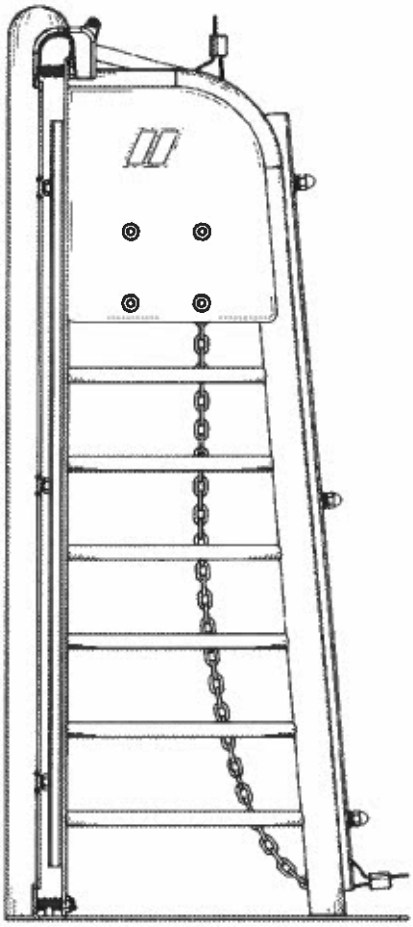


FIG. 5

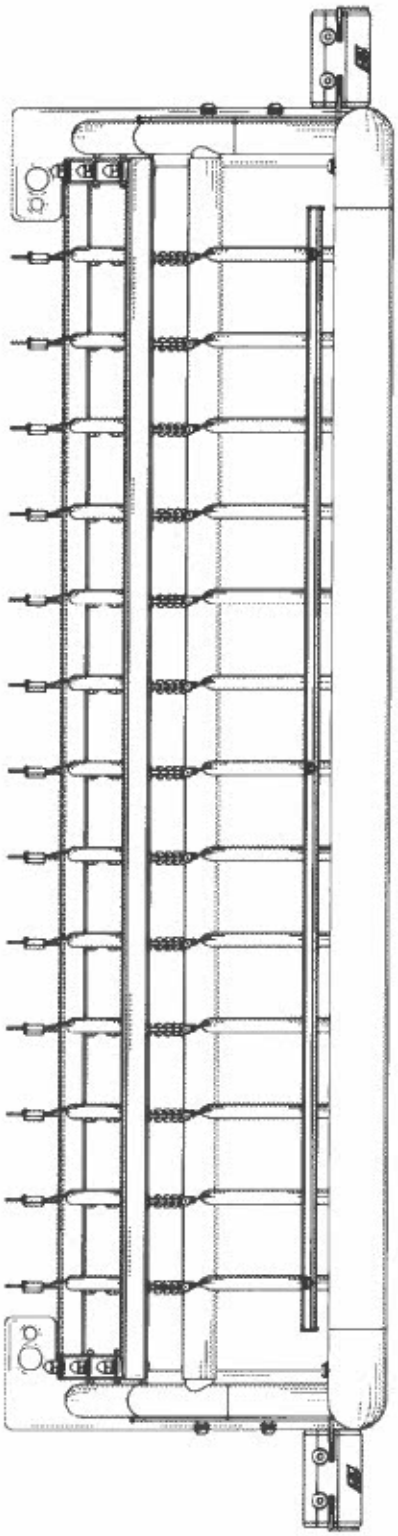


FIG. 6

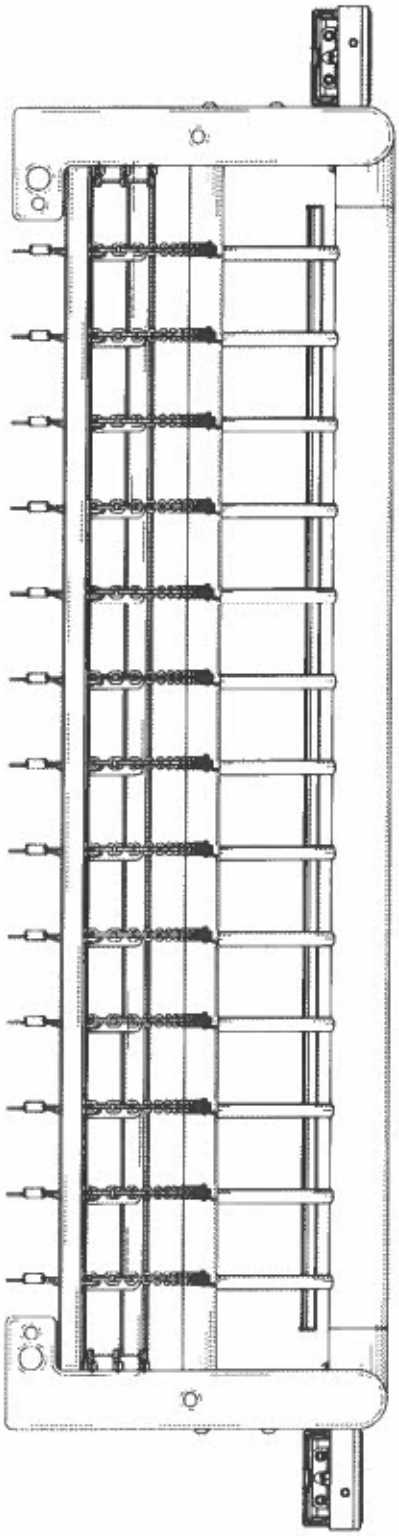
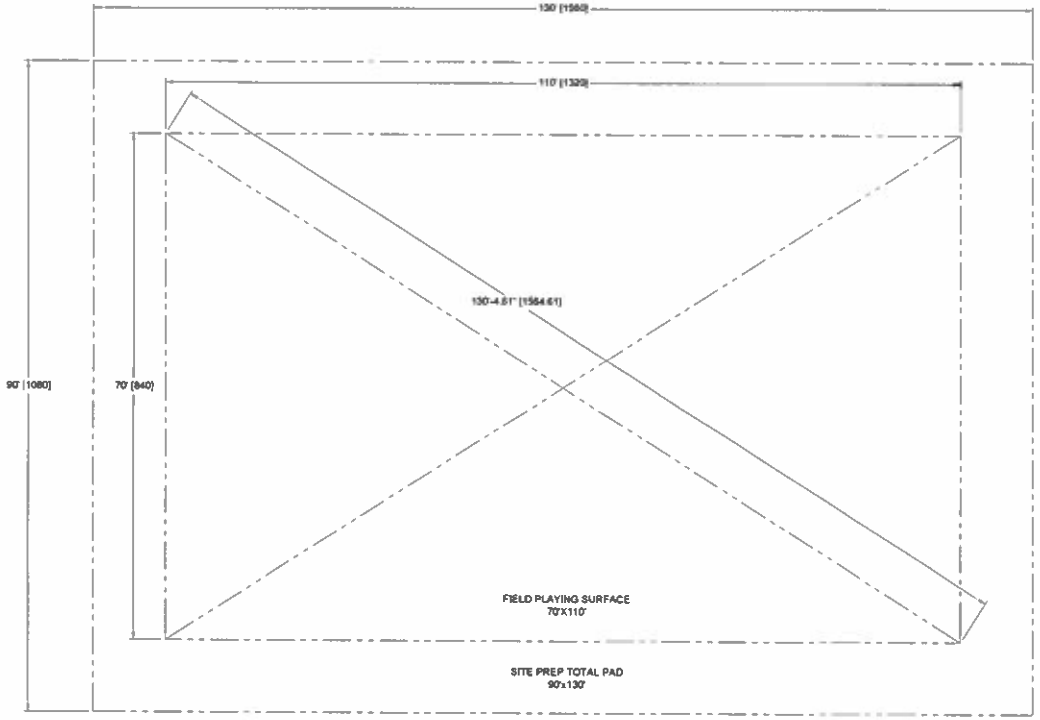
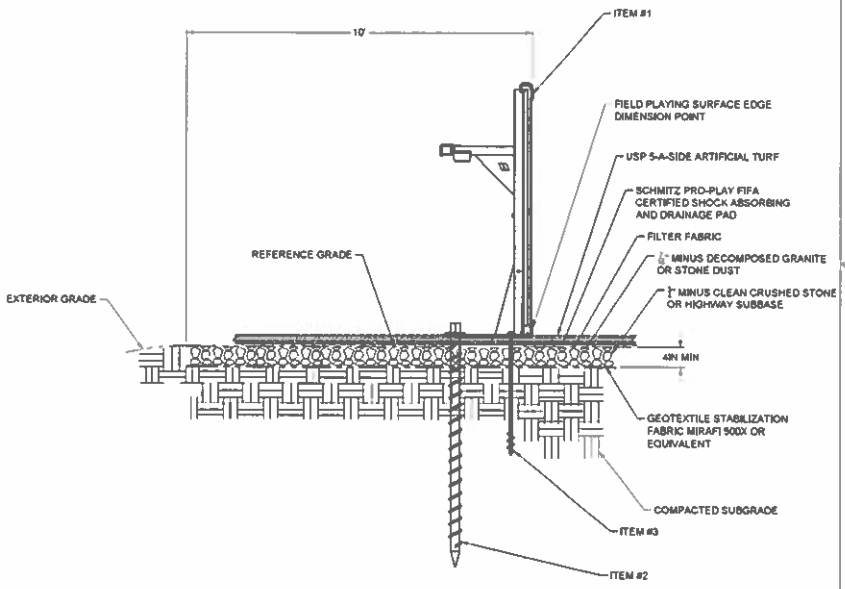


FIG. 7



PARTS LIST				
ITEM	QTY	USP PART #	PART NAME	MATERIAL
1	1	USP_0060	USP STANCHION	WELDED STEEL ASSEMBLY
2	1	ANC_0008	48IN HELICAL ANCHOR	AMERICAN EARTH ANCHOR PE48 OR EQUIVALENT
3	2	ANC_0002	24IN HELICAL ANCHOR	GALVANIZED STEEL

FIGURE A



NOTES:
1. URBAN SOCCER PARK SITE PREP SPECIFICATIONS ARE PROVIDED FOR REFERENCE ONLY
2. ENSURE PAD RECTANGULARITY WITH DIAGONAL MEASUREMENTS TO EACH FIELD PLAYING SURFACE SURVEY STAKE AT 130' - 4.8"
3. EXTRA 10' PERIMETER ENSURES COMPATIBILITY WITH ALL URBAN SOCCER PARK ACCESSORIES AND CONFIGURATIONS
4. TOTAL PAD FOOTPRINT CAN BE MINIZED PER SITE SPECIFIC PLAN AND URBAN SOCCER PARK APPROVAL
5. OVERALL SITE DRAINAGE PLAN TO BE SPECIFIED BY ARCHITECTURAL MASTER PLAN AND ASSOCIATED SITE SPECIFIC ENGINEERING DOCUMENTS
6. ARTIFICIAL TURF EDGE DETAIL TO BE SPECIFIED BY SITE SPECIFIC ENGINEERING DOCUMENTS
7. ALL SITE PREPARATION TO BE DONE BY LICENSED CONTRACTORS PER STATE OR LOCAL CODE IN THE CORRESPONDING JURISDICTION
8. UNDER NO CIRCUMSTANCES SHALL URBAN SOCCER PARK BE RESPONSIBLE FOR THE CONDITION OF SITE PREPARATION AT INITIAL INSTALLATION OR SUBSEQUENT DEGRADATION OVER TIME

REVISION NOTES	
A	NEW DESIGN
B	
C	
D	
E	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES	X	FRACTIONAL & .X	.XX	.XXX
+/- 0.5 deg	0.125	± .1	± .05	± .005

APPROVED
CHECKED
DRAWN Justin Shoon 8/19/2022

PROJECT: Soccer Park Design
TITLE: USP 70x110 Field Base Pad

SIZE	CODE	DWG NO	REV
D			A

SCALE 1:100 WEIGHT SHEET 1/1

SITE PREPARATION: CRUSHED ROCK PAD

Step 1:
Remove Non-Uniformed Material

- Done by outside contractor
- Remove organic material and non-uniform surface material (ie: grass, large rocks)
- Remove structures or uneven surfaces

Step 2:
Excavate 4" Native Soil & Compact

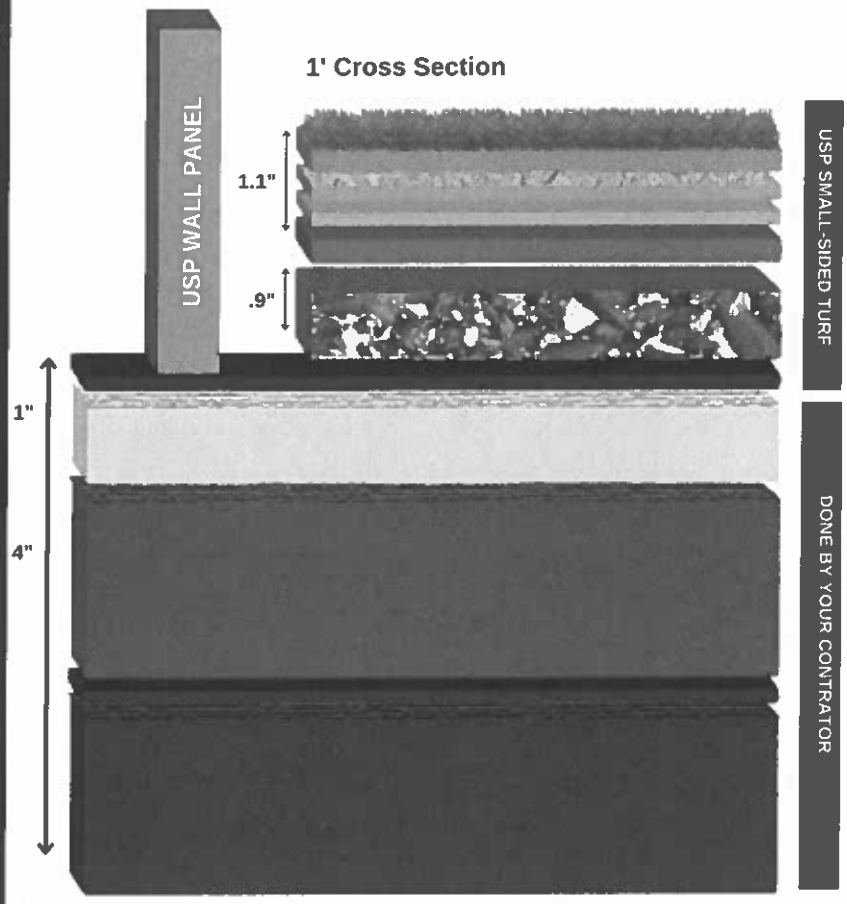
- Done by outside contractor
- Grade for drainage
  - Between 0.5% and 3%
  - USP recommends 1% grade
- 10' additional perimeter
  - EX: 70' x 110' field = 90" x 130' pad

Step 3:
Install Drainage *(if needed)*

- Done by outside contractor
- Create or tie into existing drainage system
  - USP can align channeled shock pad to direct drainage in the right direction
- USP recommends installing French drain system
  - Installed in an 'X' pattern to all four corners of the pad

Step 4:
Prepare Base

- Done by outside contractor
- Lay landscape fabric (geotextile) over soil & under base rock
- 3/4" minus washed crushed rock - compacted to 95%
- 7/16" minus washed crushed fines - compacted to 95%
- Add another layer of landscape fabric (geotextile) over compacted base



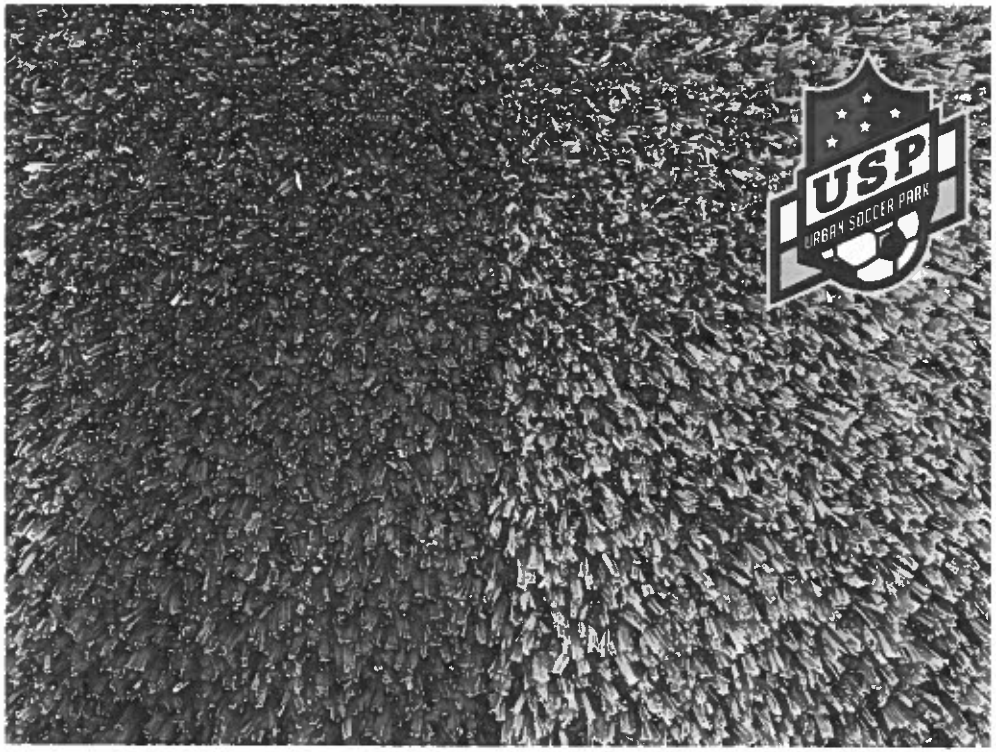
- USP Small-Sided Turf
- USP Silica Sand Infill
- USP Safeshell Infill
- USP Smooth Infill
- USP ProPlay Shock Pad
- Geotextile Fabric
- 7/16" Minus Washed Crushed Fines
- 3/4" Minus Washed Crushed Rock or Road Base
- Geotextile Fabric
- Compacted Soil

USP 5-A-SIDE TURF

SPECIFICATIONS:

Shoes:	Cleats, Turf Shoes, or Flats
Pile Height:	1.35"
Face Weight:	72 oz
Color:	Cool Green & Soccer Green
Thatch:	Light Green
Fiber Type:	Anti-Static Bicolor Diamond Monofilament & PE Curly Thatch
Fiber Mass:	16,000 Denier & +/- 52,000 Stiches yd2
Tufting Gauge:	3/8"
Primary Backing:	8.8 oz/yd2 Double PP UV Stabilized Backing
Secondary Backing:	PU Backing, 29.5 oz/yd2
Infill - Yes/No?	Yes - USP Silica Sand and SafeShell™
Total Weight:	112.1 oz/yd2

* Specifications provided above are tufted measurements. Final measurements can change during backing processes. Thatch height may vary based on lot. USP is not responsible for typing errors on specifications listed above.



BACKING: DOUBLE PP+PU

RECYCLABLE COMPONENTS

LOW HEAT

With Low Heat Color, our turf is cooler than other artificial grass systems.

6663 S. EISENMAN RD, SUITE 130, BOISE, ID, 83716 | WWW.URBANSOCCERPARK.COM

USP TURF INFILL FAQ

WHY SHOULD I CARE ABOUT INFILL?

Infill is a key factor in the health and longevity of your turf, particularly in small-sided settings. Much like how cleats play more on the ground beneath the grass rather than the grass itself, players are playing on your infill more than they are playing on the turf fibers.

Infill is key to keeping your turf standing tall, providing your field with a fulsome bounce and soft landings. Fields without infill, or not enough infill, will quickly see their turf start to become matted down, frayed, and eventually ripped away.

Infill also adds weight to your turf, keeping it in place and helping to avoid wrinkles and bulges - which are a tripping hazard!

The inevitable matting, fraying and clumping of non-infill turf

ISN'T INFILL A "DIRTY" WORD?

It's true, some infills out there are not considered to be great for the environment - most notably black crumb and other rubber-based infills. This can be of particular concern when outdoors and rainwater is passing through your turf and infill before becoming stormwater runoff.

There's also the increased maintenance for these infills that move around easily and is difficult to keep in the field. This means more time sweeping in and around your field, plus added cost of continuing to top off your infill levels.

SO WHAT DOES URBAN SOCCER PARK USE?

Urban Soccer Park is committed to building sustainable fields, which is why Urban Soccer Park utilizes a mixture of Silica Sand and Safeshell by USGreentech to create a highly-durable, allergen-free, organic infill.

This combination offers the best of everything: great bounce, low maintenance, performs the same wet or dry, and provides evaporative effects that keep your field cool as it absorbs and slowly releases moisture.

The combination also provides adequate weight to secure your turf and keep the infill in place, meaning less overall cost for adding more infill!

Cross-section of Silica Sand & Safeshell infill

IS ALLERGEN-FREE IMPORTANT?

We understand that allergens are a concern for field owners, parents, and athletes. When we set out to create our sustainable USP fields, we sought out industry leader, USGreentech, and their hypoallergenic infill. USG developed a patent-pending process that removes allergens below the FDA limit of 2.5ppm which, by comparison, is well below the FDA limits of 20ppm for gluten-free labeling.

HOW DOES IT COMPARE TO THE PERFORMANCE OF OTHER ORGANICS?

Because the combination of Silica Sand and Safeshell is highly durable, low maintenance and performs the same wet or dry, it boasts many advantages over other organic infills in terms of performance. Most organic infills on the market, without very specific management and care, can break down and create a less-than-optimal field, especially as the field ages. Our infill combination has been developed to address these performance and maintenance challenges.