SPORT BOARD STAND

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ABSTRACT
A Sport Board Stand has a Base, a Main Member protruding from the Base, perpendicular to the Base Top Surface, and a plurality of Cross Members protruding from the Main Member perpendicular to the longitudinal axis of the Main Member. Sport boards are placed on the Sport Board Stand, between any pair of Cross members, with the longitudinal axis of the sport board relatively parallel to the longitudinal axis of the Main Member, and a wide surface of the sport board relatively planar to one of the Cross Members between which it has been placed. The weight of the sport board is rested on the Base of the Sport Board Stand and a wide surface of the sport board is rested or leaned against one of the Cross Members between which it has been placed. In addition, a means of securing sport boards is provided via Flexible Cords protruding from the Main Member, elastic enough and long enough to reach the distal ends of the Cross Members. A Flexible Cord is pulled around the sport board and the Flexible Cord Retaining Loop is secured to the Flexible Cord Retaining Portion at the distal end of the Cross Member against which the sport board is rested or leaned.
1 - Base  
2 - Main Member Retaining Portion  
3 - Main Member  
4 - Cross Member Retaining Aperature  
5 - Cross Member  
6 - Flexible Cord Retaining Portion  
7 - Flexible Cord Retaining Aperature  
8 - Flexible Cord  
9 - Flexible Cord Retaining Loop  
10 - Wheel Retaining Portion  
11 - Wheel
Figure 4

1 - Base
2 - Main Member Retaining Portion
3 - Main Member
4 - Cross Member Retaining Aperture
5 - Cross Member
6 - Flexible Cord Retaining Portion
7 - Flexible Cord Retaining Aperture
8 - Flexible Cord
9 - Flexible Cord Retaining Loop
10 - Wheel Retaining Portion
11 - Wheel
SPORT BOARD STAND

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

[0002] Not Applicable

REFERENCE TO SEQUENCE LISTING, TABLE, COMPUTER PROGRAM OR COMPACT DISC APPENDIX

[0003] Not Applicable

BACKGROUND OF THE INVENTION

[0004] The field of the present invention relates to the scalable design of a stand for the storage and/or display of sport boards, skis, poles, wet suits, and other sports equipment and the like.

[0005] There are known several types of sporting board racks and hangars, equipment racks and other types of stands, racks and hangars, none of which have the features, scalability or utility of this invention.

[0006] A very small number of the known patents and applications are listed below:

United States Patents

[0007]

739275 Sep. 22, 1903 Abbe 211/67
1292314 Jan. 21, 1919 Hays 211/163
4807763 Feb. 28, 1989 Jankovsky 211/60.1
4971593 Nov. 20, 1990 Mayhall 211/70
5118189 Jun. 07, 1994 Lee 211/205
5830709 Nov. 10, 1998 Roberts 211/85.7
5862924 Jan. 26, 1999 Dumont 211/85.7

United States Patent Applications

[0008]

2006301,32180 Jul. 17, 2003 Chen 211/85.7
20060163182 Jul. 27, 2006 Borweth 211/85.7

SUMMARY OF THE INVENTION

[0009] It is an object of the present invention to provide various sizes of sport board stands for the storage and/or display of sport boards, skis, poles, wet suits, and other sports equipment and the like. The scalability of this invention includes varying the number of Cross Members and Flexible Cords to accommodate more or fewer boards. The Sport Board Sands, once built, will not have scaleable or more or fewer parts rather the design is scaleable such that changing the measurements of various parts, increasing or decreasing the number of Cross Members and Flexible Cords enables Sport Board Stands of various sizes to be produced to accommodate different sizes and different numbers of sport boards. For example, a large size Sport Board Stand could accommodate surfboards, and/or water skis, and/or snow skis, and/or poles and the like. An intermediate size Sport Board Stand could accommodate skin boards, and/or knee boards, and/or wake boards, and/or body boards, and/or boogie boards and the like. And a small size Sport Board Stand could accommodate skate boards and/or roller boards and the like.

DRAWINGS

Brief Description of the Drawings

[0010] FIG. 1 is an elevation view of the assembled Sport Board Stand.
[0011] FIG. 2 is a close up view of the distal ends of a cross member and a flexible retaining cord.
[0012] FIG. 3 is a plan view of the assembled Sport Board Stand.
[0013] FIG. 4 is an elevation view of the assembled Sport Board Stand with design and manufacturing details for assembly using modular parts.
[0014] FIG. 5 is a plan view of the assembled Sport Board Stand with design and manufacturing details for assembly using modular parts.

DETAILED DESCRIPTION OF THE DRAWINGS

[0015] Referring to FIG. 1 we see an elevation view, with partial cross section, of an assembled Sport Board Stand, wherein the Cross Members are installed into the Main Member, perpendicular to the longitudinal axis of the Main Member and parallel to each other in the horizontal or elevation plane. The Cross Members are also shown angularly offset from each other, axially about the longitudinal axis of the Main Member. The Main Member is inserted into the Main Member Retaining Portion which is affixed to the Top Surface of the Base. Additionally, we can see that the Bottom Surface of the Base sits atop of and is supported by the Wheel Retaining Portions, which sit atop of and are supported by the Wheels.

[0016] Referring to FIG. 2 we see a close up view of one of the cross members and its flexible cord retaining portion, and the distal end of one of the flexible cords and its retaining loop, wherein as shown the retaining loop is temporarily affixed to the flexible cord retaining portion in the prescribed fashion for retaining a sport board.

[0017] Referring to FIG. 3 we see a plan view of an assembled Sport Board Stand, wherein the Cross Members are installed into the Main Member, perpendicular to the longitudinal axis of the Main Member and angularly offset from each other, axially about the longitudinal axis of the Main Member. The Main Member is shown inserted into the Main Member Retaining Portion which is affixed to the Top Surface of the Base, and is relatively centrally located on the Base Top Surface.

[0018] Referring to FIG. 4 we see an elevation view of an assembled Sport Board Stand with design and manufacturing details for modular construction. The graphics of the modular parts shown will vary slightly between sizes of Sport Board Stands. The number of modular parts will vary on the bill of materials depending on the number of sport boards to be accommodated. Additionally, dimension details of the modular parts shown will vary accordingly on drawings for each size of Sport Board Stand. The detail shown in this drawing is a method by which the Cross Member
Retaining Apertures, Flexible Cord Retaining Apertures and Flexible Cord Retaining Portions can be modularized. In this case, there exists one design for each of the different pieces, each of which can be scaled to fit the appropriate Main Member and Cross Members for the Stand being built.

Referring to FIG. 5 we see a plan view of an assembled Sport Board Stand from below with design and manufacturing details for modular construction and integrated support construction of the Base. The graphics of the modular parts shown will vary slightly between sizes of Sport Board Stands. The number of modular parts will vary on the bill of materials depending on the number of sport boards to be accommodated. Additionally, dimension details of the modular parts shown will vary accordingly on drawings for each size of Sport Board Stand. The Base will be fabricated as one piece with the design intent of supporting the weight of the Sport Board Stand, a full compliment of sport boards and other sport equipment and the like. The detail shown in this drawing is a method by which the Base can be modularized. In this case there exists one design for the Base, which can be scaled appropriately to fit the Sport Board Stand being built.

PREFERRED EMBODIMENT

FIGS. 1, 2 and 3 define the unique utility of a Sport Board Stand while FIGS. 4 and 5 demonstrate the preferred embodiment. A modular design is intended to aid manufacturing, packaging and shipping. It is also intended that Sport Board Stands be manufactured from water resistant and corrosion resistant materials wherever possible.

1. A freestanding stand for the storage and display of sport boards, skis, poles, wet suits, and other sports equipment and the like, comprising of;
   a Base (1);
   a Main Member Retaining Portion (2), extending from said base, said Main Member Retaining Portion defining a Base Top Surface, said Base Top Surface being substantially parallel to said Base;
   a Main Member (3), protruding from said Main Member Retaining Portion, wherein the longitudinal axis of said Main Member is substantially perpendicular to said Base Top Surface;
   a plurality of Cross Member Retaining Apertures (4), penetrating said Main Member, said Cross Member Retaining Apertures being substantially perpendicular to the longitudinal axis of said Main Member and said Cross Member Retaining Apertures being angularly displaced from one another, axially about the longitudinal axis of said Main Member;
   a plurality of Flexible Cord Retaining Apertures (7), penetrating said Main Member, said Flexible Cord Retaining Apertures being substantially perpendicular to the longitudinal axis of said Main Member and said Flexible Cord Retaining Apertures being angularly displaced from one another, axially about the longitudinal axis of said Main Member;
   a plurality of Cross Members (5), said Cross Members protruding from said Cross Member Retaining Apertures; and
   a plurality of Flexible Cords (8), said Flexible Cords protruding from said Flexible Cord Retaining Apertures and being elastic and of length sufficient to reach the distal end of a nearest Cross Member.

2. The stand of claim 1, wherein a plurality of Wheel Retaining Portions (10) extend from said Base, said Wheel Retaining Portions defining a Base Bottom Surface, said Base Bottom Surface being substantially parallel to said Base Top Surface.

3. The stand of claim 2, wherein a plurality of Wheels (11), extend from said Wheel Retaining Portions.

4. The stand of claim 3, wherein a Flexible Cord Retaining Portion (6), extends from each of the distal ends of each of said Cross Members.

5. The stand of claim 4, wherein a Flexible Cord Retaining Loop (9), extends from the distal ends of each of said Flexible Cords.

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