

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 13-200515- -17	FECHA: 2016-06-13 09:47:03
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION	FOLIOS: 4
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
IVAN CAMILO MAYORGA CERON

Asunto: Radicación: 13-200515- -17
Trámite: 2
Evento: 1
Actuación: 519
Oficio: 7106
Folios: 4

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional	X				
Vía PCT (Fase Nacional)		Capítulo I		Capítulo II	
No. Solicitud Internacional					
Fecha de Presentación Internacional					

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Rad. N° 13-200515-00000-0000	23/Agosto/2013
Reivindicaciones:	Rad. N° 13-200515-00000-0000	23/Agosto/2013
Dibujos:	Rad. N° 13-200515-00000-0000	23/Agosto/2013

2. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10)

reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiarán las reivindicaciones 1 a 10 (Radicado N° 13-200515-00000-0000).

Título de la solicitud: “Estructura de rebote de pelota para entrenamiento deportivo simétrico o asimétrico, modular apilable y su proceso de ensamble y desarmado” (Ver página 1 del radicado N° 13-200515-00000-0000).

El problema planteado en esta solicitud consiste en la necesidad de diseñar una estructura de rebote para deportes, en donde el enmallado aporte diferentes tipos de inclinación que permitan cambiar el entrenamiento.

Para resolver este problema técnico, la solicitud en estudio proporciona una estructura de rebote de pelota para entrenamiento deportivo simétrico o asimétrico, modular y su proceso de desarmado y apilado, la cual permite su fácil transporte por medio de sus ruedas, almacenaje dado a su modularidad, y otorga a su vez diferentes ángulos de inclinaciones, para el desarrollo de las acciones a través de una malla elástica o red.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): A63B 69/40 // 63/004.

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

Las reivindicaciones 1, 2 y 10 no están caracterizadas por sus características esenciales sino por resultados a alcanzar definidos por los términos: “...se gradúan la simetría o no vertical y/o horizontal...”, “...que presentan un texturizado exterior para facilitar el ajuste...”, “...inclinación que se transmite a los largueros verticales...”, “...se direcciona al ajustar el brazo horizontal de inclinación...” (Reiv. 1), “...queda armado simétricamente cuando las caras paralelas verticales y horizontales presentan la misma longitud...” (Reiv. 2), “...se logra direccionar el bastidor (2) ubicando el brazo horizontal de inclinación (3) en los trinquetes salientes...” (Reiv. 10). Es así que estos términos no definen características estructurales esenciales, puesto que la reivindicación incluiría no sólo la solución propuesta por el solicitante, sino todas las alternativas presentes o futuras que lleguen a esos resultados. Se sugiere reemplazarlos por las características esenciales estructurales que contribuyen a la obtención de esos efectos.

Las reivindicaciones 1 y 4 no están caracterizadas por sus características esenciales sino por funcionalidades definido por los términos: “...el cual une las estructuras de soporte de red con la estructura de soporte de rueda al momento de realizar un desplazamiento de la estructura por el campo...” (Reiv. 1), “...que realizan la inclinación por medio de una bisagra...” (Reiv. 4). Es oportuno aclarar que, las funcionalidades pueden estar presente en la reivindicación pero no le pueden dar novedad y/o nivel inventivo a un producto, dado que, que cuando se reivindica un

producto, las funcionalidades sirven para entender la relación que hay entre los diferentes elementos estructurales de un producto, pero son solo los elementos estructurales los que definen a dicho producto haciendo a las funcionalidades opcionales.

La reivindicación 1 no es clara porque presenta los términos “...*manera de trinquete (13) del brazo horizontal de inclinación...*” mal redactados.

Las reivindicaciones 1, 2 y 5 no son claras porque:

- Las expresiones: “*que son opcionales*”, “*opcional*”, “*medida deseada*” (Reiv. 1), “... *una, dos, tres o cuatro medidas...*” (Reiv. 2), precediendo una característica no son limitativas, porque hacen opcional a las características y no limitan el alcance de las reivindicaciones. Se sugiere incluir las características opcionales o preferentes en una reivindicación dependiente.
- El término “*una leve*” (Reiv. 5) es relativo por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término o rango concreto.

4. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación: agosto 23 de 2013 y no se encontraron documentos que divulguen en su totalidad la materia reivindicada en las reivindicaciones 1 y 4.

5. Conclusión

No se encontraron anterioridades que divulgen en su totalidad las características reclamadas en las reivindicaciones 1 y 4, sin embargo, es necesario que el solicitante realice las correcciones y/o aclaraciones a las objeciones de claridad realizadas al capítulo reivindicatorio.

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Si como respuesta a este requerimiento el solicitante llegara a modificar: i) el capítulo reivindicatorio, ii) la descripción de la invención a proteger, iii) o presente un nuevo capítulo reivindicatorio, y desee que se realice un nuevo examen de patentabilidad a esta modificación, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 18 meses, contados desde la publicación de la solicitud de patente de invención. Adicionalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones deberá pagar la tasa por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-06-21

Elaboró: Diana Melisa Avila

Revisó: Angelica Maria Ramirez Cano

Diana Avila

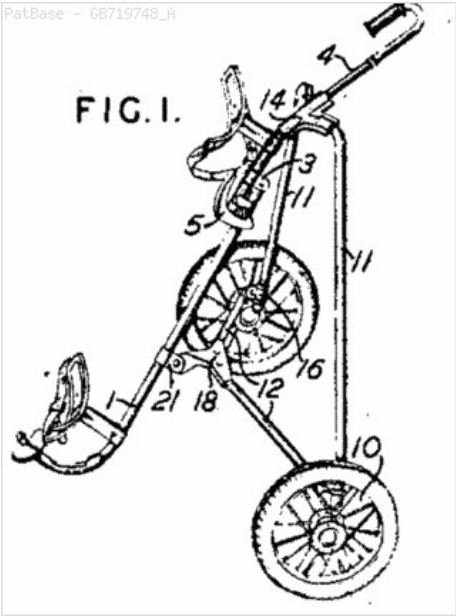
Search history

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Search 5: TAC=(ball and (web or grid or mesh or net) and (practice or training) and (square or rectangular)) and IC=(A63) (Results 72)
Search 6: TAC=((web or grid or mesh or net) and Wheel) and IC=(A63) (Results 1671)
Search 7: TAC=((web or grid or mesh or net) and Wheel) and IC=(A63b) (Results 459)
Search 8: TAC=((web or grid or mesh or net) and Wheel and (mobile or transport)) and IC=(A63b) (Results 73)

Title: Improvements in wheeled carriers for golf-clubs

Abstract: Source: GB719748A 719,748. Golf-bag carriers. WEATHERSHIELDS, Ltd., and SMITH, H. A. G. Nov. 9, 1953 [Sept. 10, 1952], No. 22682/52. Addition to 658,596. Class 108(1) A backbone - member 1 of a golf-bag carrier has secured to its upper end, by means of a pivoted bracket 3, a handle member 4 carrying a pair of pressings 14 in which the leg members 11 are rotatably secured. The lower ends of the leg members 11 carry stub axles for the road wheels 10, and rotatable sleeves 16 to which are pivoted stay members 12 which are also pivotally secured to a yoke member 18 carried by lug 21 secured to the frame member 1. The handle member 4 and the backbone member 1 overlap and are retained in the erected position by a catch 5.

Classifications:
International (IPC 8-9): B62B1/04 (Advanced/Invention); B62B1/00 (Core/Invention)
International (IPC 1-7): A63B55/08
CPC: B62B1/045 B62B2202/404 B62B2205/20
European: B62B1/04F2 L62B202/404 L62B205/20



Family:

Publication number	Publication date	Application number	Application date
GB719748 A	19541208	GB19520022682	19520910

Priority:

GB19520022682 19520910

Assignee(s): (std): HUGO ALBERT GUY SMITH ; WEATHERSHIELDS LTD

Assignee(s): WEATHERSHIELDS LIMITED

Title: Improvements in gymnasium equipment

Abstract: Source: GB1016062A 1,016,062. Gymnastic apparatus. CARR GYMNASIUM EQUIPMENT Ltd. July 6, 1964 [April 6, 1963], No. 13785/63. Heading A6M. The upright member or members of a gymnastic apparatus are movably supported on a rail having a catch for releasably securing the said upright member or members in a desired position. In the embodiments described and upright member 4 slides along a beam 2 on a roller 8 mounted on a bolt 9. The said catch constitutes an arm comprising members 10, 11 pivoted on the bolt 9 and having a peg 13 spanning members 10, 11 which may drop into a locating notch 2d in the beam 2. Nylon pads 10a, 11a on the ends of member 10, 11, and similar pads on the side plate 5, 6, locate the wheel 8 on the centre web 2c of the beam 2. The upright member 4 may be moved away from the notch 2d by pivotal displacement of said member 4 about wheel 8 in a direction such that a bolt 14 lifts the arm and peg 13 out of the notch 2d. The lower end of the upright member 4 is located by a threaded bolt 21 in a socket 16 and adjusted to take the weight of the upright member by means of an adjusting wheel 20. Another embodiment is described having slightly different construction details, and a construction in which two upright members are mounted on each of two parallel rails.

Classifications:

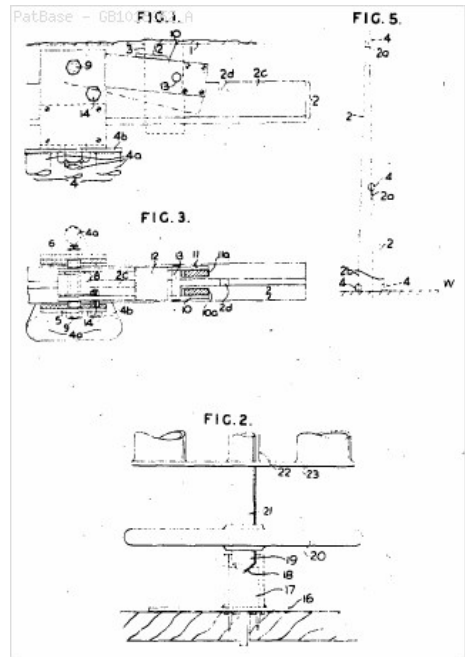
International (IPC 8-9): A63B9/00 (Advanced/Invention);

A63B9/00 (Core/Invention)

International (IPC 1-7): A63B17/00

CPC: A63B9/00

European: A63B9/00



Family:

Publication number	Publication date	Application number	Application date
GB1016062 A	19660105	GB19630013785	19630406

Priority:

GB19630013785 19630406

Assignee(s): (std): CARR GYMNASIUM EQUIPMENT LTD

Assignee(s): CARR GYMNASIUM EQUIPMENT LIMITED

Inventor(s): (std): CARR RAYMOND VINCENT ; CARR HERBERT

Title: SKIING MOVEMENT SIMULATOR - DEVICE ENABLES SKIER TO PRACTICE GODILLE MOVEMENT

Abstract: Source: FR2262362A (Claim 1) 1. - Appareil pour l'apprentissage du ski, caracterise en ce qu'il est constitue par un plateau superieur portant deux plaques repose-pieds disposees de part et d'autre d'une ligne mediane du plateau superieur, et articulees autour d'axes horizontaux paralleles a ladite ligne-mediane, par un plateau intermediaire sur lequel le plateau superieur est monte **mobile** en translation suivant une direction normale a l-a ligne mediane precitee, et par une embase sur laquelle le plateau intermediaire est monte pivotant autour d'un axe vertical qui, en position de repos de l'appareil passe par la ligne mediane precitee au voisinage de l'une de ses extremités correspondant a la partie anterieure de l'appareil, des moyens etant prevus pour supporter 1 plateau intermediaire au-dessus de l'embase tout en permettant son pivotement autour l'axe precite, et pour le rappeler en position de repos dans laquelle les lignes medianes du plateau intermediaire et de l'embase sont dans un meme plan vertical, d'autres moyens etant prevus pour transmettre au plateau superieur, lors de chaque pivotement du plateau intermediaire dans un sens ou dans l'autre, un mouvement proportionnel de translation dans le mme sens, et d'autres moyens etant prevus d'une part, pour assurer le maintien horizontal des plaques quand l'appareil est au repos et d'autre part, pour assurer le basculement de celles-ci a droite ou a gauche selon que le plateau intermediaire pivote vers la gauche ou-vers la droite. An upper platform (2) carries two plates (3) onto which the feet are placed, arranged on either side of the upper platform median line, and hinged, around a horizontal axis (4) parallel to the median line, by an intermediate platform (5) on which the upper platform (2) is mounted to move in a direction normal to the median line, and also by a base on which the intermediate platform (5) is mounted to pivot around a vertical axis which in the rest position of the device passes through the upper platform (2) median line near to one of its ends corresponding to the front part of the device. The intermediate platform (5) is supported above the base whilst permitting it to pivot around the vertical axis, and also to return it to the rest position in which the intermediate and base median lines are in the same vertical plane. A proportional movement in the same sense, is transmitted to the upper platform when the intermediate platform is pivoted either way.

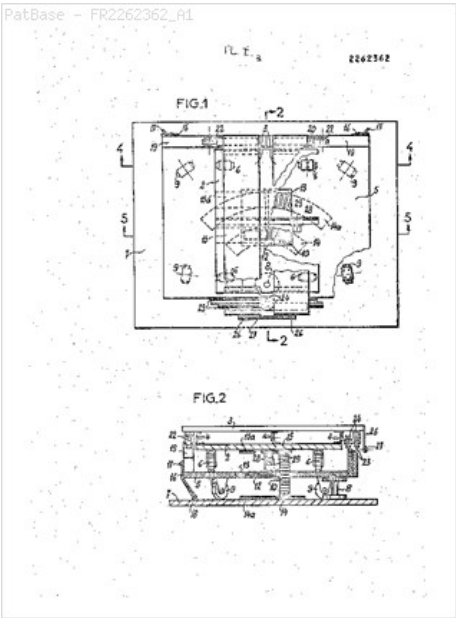
Classifications:

International (IPC 8-9): A63B69/18 (Advanced/Invention); A63B69/18 (Core/Invention)

International (IPC 1-7): A63B69/18 G09B9/00

CPC: A63B69/18

European: A63B69/18



Family:

Publication number	Publication date	Application number	Application date
FR2262362 A1	19750919	FR19740006733	19740222
FR2262362 B3	19761210	FR19740006733	19740222

Priority:

FR19740006733 19740222

Assignee(s): (std): QUENARD RAYMOND

Assignee(s): QUENARD RAYMOND FR

Title: VORRICHTUNG ZUM BEFESTIGEN EINES REIFENGLEITSCHUTZES AUF FAHRZEUGRAEDERN

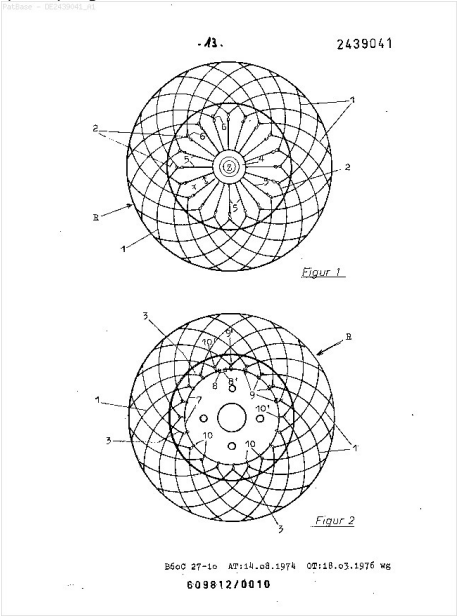
Abstract: Source: DE2438041A1 ssssWARNUNGsssss Anfang CLMS Feld konnte Ende DESC ueberlappen ssss Patentbeschreibung Konditons undTrainingag e r ae t Die Erfindung betrifft ein Konditions und Trainingsgeraet, deren Be sonderheit darin liegt, Dass jeder einzelne Fussballspieler seine koer perliche Leistung an diesem Geraet ausbauen und abmessen kann Der Hauptbestandteil des Geraetes sind wahlweise, nebeneinander oder uebereinandergesetzte und bewegliche Ballfuehrungskanaele(1). The conditioning and training apparatus has several ball throw-out channels from which balls of varying sizes can be ejected at different angles, width, heights, speeds and depths. A ball pick-up **net** is fitted on top of the apparatus through which the balls are recycled into the outlet channels. The pick-up **net** or goal can be adjusted as required as regards height, width and depth. The throw-out channels have an opening in front on the upper side which is made to correspond to the size of the ball being used and there is a striking bolt in each throw-out channel, connected to a spiral spring.

Classifications:

International (IPC 8-9): A63B69/40 B60C27/10 B60C27/12 B60C27/16 B60C27/18 (Advanced/Invention); A63B69/40 B60C27/00 (Core/Invention)

International (IPC 1-7): A63B69/40 B60C27/06 B60C27/10 B60C27/18 **CPC:** B60C27/10 B60C27/12 A63B69/407

European: A63B69/40E B60C27/10 B60C27/12



Family:

Publication number	Publication date	Application number	Application date
AT613875 A	19770915	AT19750006138	19750807
CH590140 A	19770729	CH19750008740	19750705
DD119171 C	19760412	DD19750187230	19750710
DE2438041 A1	19760219	DE19742438041	19740807
DE2439041 A1	19760318	DE19742439041	19740814
FR2281848 A1	19760312	FR19750025213	19750813
FR2281848 B1	19790824	FR19750025213	19750813
IT1041841 A	19800110	IT19750026338	19750813
JP51042202 A2	19760409	JP19750097426	19750811
NL7509621 A	19760217	NL19750009621	19750813
SE7508796 A	19760216	SE19750008796D	19750804
SU577953 D	19771025	SU19752163098	19750804

Priority:

DE19742438041 19740807 DE19742439041 19740814

Assignee(s): (std): HEISS HELMUTH ; MUENCHEN ; WELLHAEUSSER JOSEF ; WOLKRO AG ; WELLHAEUSSER

Assignee(s): WOLKRO ZUG SCHWEIZ AG ; WOLKRO O OPMA HEO O APOA AX OPMA AG ; WOLKRO AKTIENGESellschaft TE ZUG ZWITSERLAND ; WOLKRO AG ZUG SCHWEIZ ; WOLKRO AG ; WOLKRO AG O OPMA HEO o APOA Ax OPMA ; BORUKURO AG

Inventor(s): (std): HEISS HELMUTH ; SCHUSTER WILHELM ; STUCK WALTER ; BURKHARDT LIESELOTTE ; WELLHAEUSSER JOSEF

Inventor(s): BURKKHARDT LIZELOTTE ; STUCK WALTER 2800 BREMEN ; VALTER SHTUK DT ; VILGELM SHUSTER DT ; SCHUSTER WILHELM 6000 FRANKFURT ; SHTUK VALTER ; SHUSTER VILGELM ; STUCK W ; LIZELOTTE BURKKHARDT DT ; RIIZEROTSUTE BURUKUHARUTO ; SCHUSTER W ; BARUTERU SHUTOTSUKU ; BIRUHERUMU SHUSUTERU ; BURKHARDT GEB SCHIRMER LIESELOTTE 2850 BREMERHAVEN ; BURKHARDT L

Title: MONORAIL TRANSPORT APPARATUS

Abstract: Source: US4044688A There is disclosed a monorail transport apparatus for transport of golf equipment in golf links, comprising a transport vehicle body provided with a caster wheel rollable on a monorail, a driving vehicle body equipped with a prime mover and partly received in and pivotally connected to the front portion of the transport vehicle body so as to be swingable around the axis of a transverse shaft, a driving wheel and a driven wheel disposed on both sides of the transverse shaft, an endless driving belt entrained around the driving and driven wheels and pressed against the upper surface of the monorail, and an auxiliary wheel pivotally connected to the driving vehicle body so as to be swingable around the axis of the transverse shaft and pressed against the lower surface of the monorail, the arrangement being such that the transport apparatus travels while holding the monorail from above and below between said driving belt and the auxiliary wheel, thereby achieving increased hill climbing ability and increased traveling stability irrespective of the sinuosity of the monorail.

Classifications:

International (IPC 8-9): A63B55/08 A63B55/60 B61B13/04 B61C11/00

B61C13/04 (Advanced/Invention);

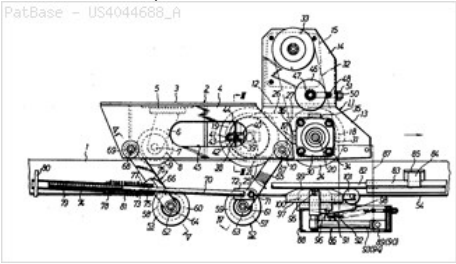
A63B55/08 B61B13/04 B61C13/00 (Core/Invention)

International (IPC 1-7): A63B55/08 B61B13/04 B61B13/06 B61C11/00 B61C13/00

CPC: B61C13/04

European: B61C13/04

US: 104/118 104/165 104/246 105/141 105/30



Family:

Publication number	Publication date	Application number	Application date
AU197587714 A1	19770421	AU19750087714	19751219
CA1036423 A1	19780815	CA19760247283	19760305
JP52002910 A2	19770111	JP19750078733	19750624
JP53027527 B4	19780809	JP19750078733	19750624
JP946997 C3	19790330	JP19750078733	19750624
US4044688 A	19770830	US19750642404	19751219

Priority:

JP19750078733 19750624

Assignee(s): (std): SENYO KIKO KK

Assignee(s): SENYOU KIKOU KK ; KITA KAZUHARU ; SENYO KIKO KABUSHIKI KAISHA

Inventor(s): (std): KITA KAZUHARU

Inventor(s): KAZUHARU KITA

Title: STATIONARY BICYCLE SUPPORT ELEMENT - CONVERTS BICYCLE INTO HOME EXERCISE APPTS. BY PROVIDING MOUNTED ROLLERS FOR REAR **WHEEL**

Abstract: Source: CH586559A (Claim 1) 1. Geraet nach Patentanspruch, dadurch gekennzeichnet, dass die beiden Schenkel (1b) des Fahrradstaenders (1) nach oben konvergieren. Support element for a bicycle to permit it so use as a home exercis appts. consists of two parts mechanically independent of each other. One part includes a stand for the bicycle with legs emanating from a horizontal stay the upper ends of which are connected by a transverse. A bridle intended to enclose the handle bar socket is fitted on the traverse. The stay carries a bearing to hold the front **wheel** of the bicycles. The other part of the appts. includes a frame (6) on which two rollers (7, 8) arranged in parallel, serve as the bearing for the bicycles's rear **wheel**.

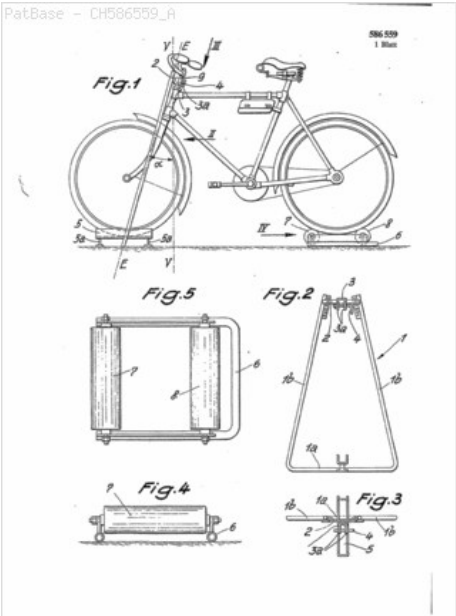
Classifications:

International (IPC 8-9): A63B69/16 (Advanced/Invention); A63B69/16 (Core/Invention)

International (IPC 1-7): A63B69/16

CPC: A63B69/16 A63B2069/162 A63B2069/163

European: A63B69/16 K63B69/16A2B K63B69/16A2C



Family:

Publication number	Publication date	Application number	Application date
CH586559 A	19770415	CH19750006537	19750521

Priority:

CH19750006537 19750521

Assignee(s): (std): FUHRMANN HANS JUERGEN

Title: DISPOSITIF DE SUPPORT DE CYCLE TUBULAR BICYCLE PARKING STAND - HAS S:SHAPED CRADLE FOR LOWER FRAME TUBE AND HOUSING FOR PEDAL MECHANISM

Abstract: Source: FR2377317A Dispositif de support de cycle. Dispositif de support de cycle dont les moyens de fixation sont diametralement opposes par rapport au tube du cycle sur lequel il est fixe, caracterise en ce qu'il est muni a sa base d'au moins un moyen de fixation a une barre de galerie d'automobile. **Transport** de cycle sur le toit d'une automobile. The bicycle parking stand has an S-shaped cradle at the top (4), on which the pedal mechanism housing and the lower frame tube lie. a lug (6) rests on the tube diametrally opposite to the point where the latter rests on the cradle. a spring or rubber shock absorber fixes the stand to the bicycle rear fork. There can be a plate in the cradle, working in conjunction with a second and movable plate (17) with a bolt n16) grippin ghe rear fork. a device can be incorporated at the base of the stand for fixing it to a car-park fence bar.

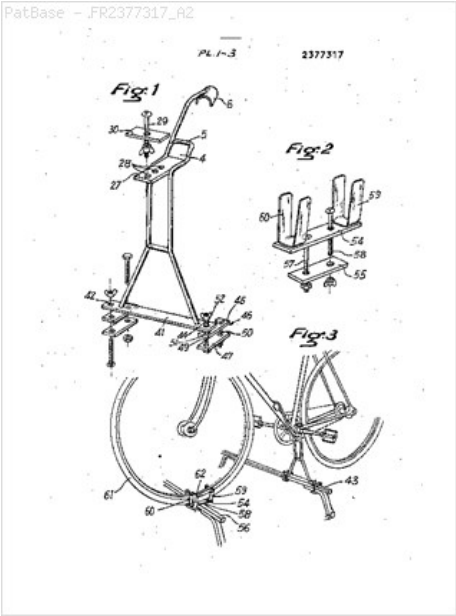
Classifications:

International (IPC 8-9): B60R9/00 B60R9/10 B62H3/00 (Advanced/Invention); B60R9/00 B62H3/00 (Core/Invention)

International (IPC 1-7): A63B69/16 B60R9/10 B62H3/00 B62H3/04 B62H3/10

CPC: B60R9/10 B62H3/00 B60R9/00

European: B60R9/00 B60R9/10 B62H3/00



Family:

Publication number	Publication date	Application number	Application date
BE850645 A1	19770516	BE19770174294	19770121
DE7701748 U1	19770721	DE19770001748U	19770121
FR2338839 A1	19770819	FR19760001522	19760121
FR2338839 B1	19800530	FR19760001522	19760121
FR2377317 A2	19780811	FR19770000683	19770112
NL7700630 A	19770725	NL19770000630	19770121

Priority:

FR19760001522 19760121 FR19770000683 19770112

Assignee(s): (std): GEORGES GUEHENEUC ; GEORGES GUEHENEUC TE RENNES FRANKRIJK ; GUEHENEUC GEORGES

Assignee(s): GUEHENEUC GEORGES RENNES FRANKREICH

Title: Sessel (POLSTERSEL) MIT EINGEBAUTEM TRAININGSGERAET SEAT CONVERTIBLE FOR ROWING TRAINING - HAS SEAT MOVING BY ROLLERS IN TUBES, AND SIDE ARM REST CONVERTED INTO CABLE FIXTURES

Abstract: Source: DE2908545A1 PatentansprUche Sessel, (Polstersessel) mit eingebautem Trainingsgeraet, dadurch gekennzeichnet, dass das Trainingsgeraet als Ruder geraet (Rudersessel) ausgebildet ist u als fester Bestand teil des Polstersessels mit wenigen Handgriffen in einen solchen u umgekehrt wieder in einen Rudersessel umgestellt werden kann 2. The upholstered seat incorporates a training mechanism for rowing, in which the seat moves to and fro on guide tubes by means of rollers. The upholstered cushion is removed from the seat for rowing practice. The side arm rests pivot forward on a fixed bearing in order to provide a fixed mounting for a cable roller for guiding a cable or flexible rubber cable. When closed down the side arm rest is locked in position by a bolt in slots, and spring. The arm rest is operated by a knob. Several tension springs provide the force against which the rower has to row.

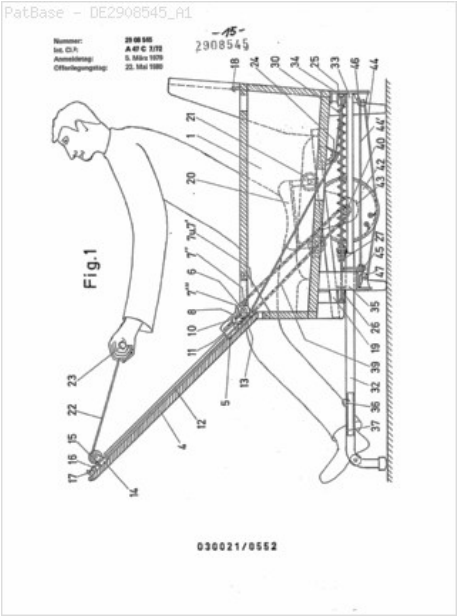
Classifications:

International (IPC 8-9): A47C7/62 A63B21/04 A63B69/06 (Advanced/Invention);
A63B21/00 A63B21/055 (Advanced/Non-invention);
A47C7/62 A63B21/02 A63B69/06 (Core/Invention);
A63B21/00 (Core/Non-invention)

International (IPC 1-7): A47C7/72 A63B21/04 A63B69/06

CPC: A63B21/04 A47C7/62 A63B21/00061 A63B21/00065 A63B21/023 A63B21/0428
A63B21/0442 A63B21/055 A63B21/0552 A63B21/154 A63B22/0076 A63B2021/1609
A63B2022/0079 A63B2208/0228 A63B2210/02

European: A47C7/62 A63B21/04 A63B21/15F6 A63B22/00R A63B23/035G
K63B208/02E K63B21/00F2 K63B21/00F4 K63B21/02B K63B21/04B6 K63B21/04C
K63B21/055 K63B21/055D K63B21/16B K63B210/02 K63B22/00R2



Family:

Publication number	Publication date	Application number	Application date
DE2908545 A1	19800522	DE19792908545	19790305

Priority:

DE19792908545 19790305

Assignee(s): (std): DAUSCH ERNST

Inventor(s): (std): DAUSCH ERNST

Title: String pre-stretching apparatus and method for racket stringing machine

Abstract: Source: US4249732A A racket stringing machine having a racket head holding fixture and a carriage and string clamp mounted for reciprocation toward and away from the fixture for engaging a string drawn through a racket head mounted on the fixture for tensioning of the string upon movement of the carriage away from the fixture; a brake for locking the position of the carriage relative to the fixture for maintaining the string at a predetermined tension, the carriage and brake being constructed to permit additional movement of the carriage away from the fixture for applying additional tension to and pre-stretching of the string; and means functioning on decrease of string tension to the desired predetermined tension to apply the brake.

Classifications:

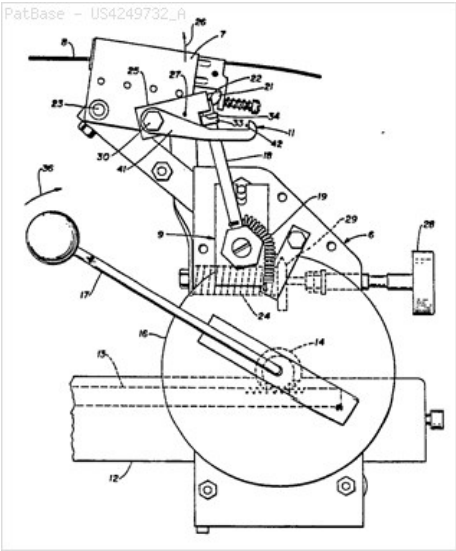
International (IPC 8-9): A63B51/14 A63B51/16 (Advanced/Invention); A63B51/00 (Core/Invention)

International (IPC 1-7): A01N43/647 A01N59/16 A63B51/14 A63B51/16 C07D303/04 C07D303/28

CPC: A63B51/14

European: A63B51/14

US: 273/73A 473/556



Family:

Publication number	Publication date	Application number	Application date
AU198055347 A1	19800821	AU19800055347	19800208
AU198166599 A1	19810730	AU19810066599	19810123
AU534183 B2	19840112	AU19800055347	19800208
AU543521 B2	19850426	AU19810066599	19810123
CA1133238 A1	19821012	CA19800345526	19800212
CA1162396 A1	19840221	CA19810369233	19810123
DE3068334 D1	19840802	DE19803068334	19800207
DE3102658 A1	19811224	DE19813102658	19810124
EP0024079 A1	19810225	EP19800900390	19800825
EP0024079 A4	19820111	EP19800900390	19800825
EP0024079 B1	19840627	EP19800900390	19800825
JP1617351 C3	19910912	JP19810009113	19810126
JP2041341 B4	19900917	JP19810009113	19810126
JP55501170 T2	19801225	JP19800500548T	19800207
JP56106667 A2	19810825	JP19810009113	19810126
US4249732 A	19810210	US19790011145	19790212
US4326713 A	19820427	US19790099215	19791203
US4348024 A	19820907	US19800115258	19800125
WO8001649 A1	19800821	WO1980US00131	19800207

Priority:

US19790011145 19790212 US19790099215 19791203 US19800115258 19800125
WO1980US00131 19800207 CA19810369233 19810123 CA19800345526 19800212

Assignee(s): (std): BALABAN J ; BALABAN J A ; JIYON ADAMUSU BARABAN

Assignee(s): BALABAN JOHN A ; BALABAN JOHN ADAMS

Inventor(s): (std): BALABAN J ; BALABAN JOHN A ; BALABAN JOHN ADAMS ; BLABAN J A ; JIYON ADAMUSU BARABAN

Inventor(s): JOHN ADAMS BALABAN ; ADAMS BALABAN JOHN ; J A BLABAN

Designated states: AT CH DE DK FR GB JP LU NL NO SE

Title: CONVERTIBLE TABLE, ESPECIALLY FOR GAMES

Abstract: Source: US4345758A A convertible table which is primarily intended for games comprises a stationary horizontal bottom panel and a movable panel slidably mounted for outward withdrawal or inward return to the storage position by means of at least one pair of roller-tracks carried by fixed side-panels. The roller-tracks are placed with respect to the stationary bottom panel at a level such that the two panels are located in the storage position at a vertical distance from each other which permits storage of objects on the bottom panel.

Classifications:

International (IPC 8-9): A47B1/08 A47B25/00 (Advanced/Invention);
A47B1/00 A47B25/00 (Core/Invention)

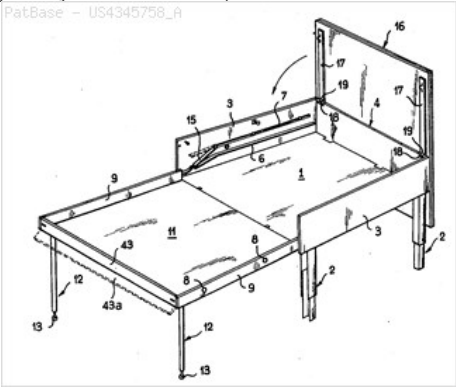
International (IPC 1-7): A47B25/00 A47B3/083 A63B61/00

CPC: A47B85/00 A47B25/00 A47B1/08 A47B25/003

European: A47B1/08 A47B25/00 K47B25/00 K47B25/00B

US: 108/33 108/63 108/96 273/30 473/475

PatBase - US4345758_r



Family:

Publication number	Publication date	Application number	Application date
DE3007767 A1	19800911	DE19803007767	19800229
FR2450084 A1	19800926	FR19790005352	19790301
FR2450084 B1	19811211	FR19790005352	19790301
US4345758 A	19820824	US19800123189	19800220

Priority:

FR19790005352 19790301

Assignee(s): (std): KEMPF BERTRAND

Inventor(s): (std): KEMPF BERTRAND

Diana Avila

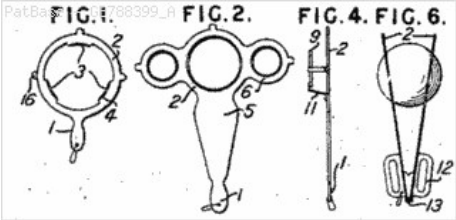
Search history

- Search 1: TAC=(net and (practice or training) and mobile) (Results 468)
Search 2: TAC=(net and (practice or training) and mobile and (square or rectangular)) (Results 52)
Search 3: TAC=((web or grid or mesh or net) and (practice or training) and mobile and (square or rectangular)) (Results 142)
Search 4: TAC=(ball and (web or grid or mesh or net) and (practice or training) and (square or rectangular)) (Results 217)
Search 5: TAC=(ball and (web or grid or mesh or net) and (practice or training) and (square or rectangular)) and IC=(A63) (Results 72)

Title: Improvements in or relating to ball games apparatus

Abstract: Source: GB788399A 788,399. **Ball** projecting and catching appliances. ARNHEM, D. VON. Oct. 26, 1955 [Dec. 3, 1954], No. 35058/54. Class 132(2) **Ball** throwing and catching apparatus comprises a handle 1 formed with a ring 2 the inner edge of which is bevelled or rounded as at 4, Fig. 2, or provided with at least three projections 3, the inner edges of which are bevelled or rounded; Fig. 1, and a **ball** of such diameter that between a quarter and a third of its diameter projects through the ring when it rests thereon. As shown in Fig. 2, further rings 6 of smaller diameter and a striking plate 5 between the handle and the ring may be provided. As shown in Fig. 4, a smaller ring 9 is mounted on struts 11 behind the main ring 2 which acts either as a cage for the **ball** or a catcher-projector for a smaller **ball**, the main ring being enlarged or apertured opposite the handle so that it does not foul the smaller **ball**. As shown in Fig. 6, two rings 2 are pivoted together at 13 and provided with hand grips 12, the pivoting either being tongs-fashion as shown or scissors-fashion. For storage, the **ball** may be retained on the ring by elastic cords taking over projections 16 or into notches in the ring. According to the Provisional Specification, the ring may be backed by a **net**, the device may be stood up obliquely on a stand to serve as a target, the device may be in the form of tongs the **ball** receiving surfaces of which are fitted with friction material or formed with grooves, several devices may be pivoted together in fan fashion, or two curved arms are pivoted together, are so shaped as to form a heart-shaped aperture when closed and are joined by a **net** which is taut when the arms are open and forms a **ball**-receiving bag when the arms are closed.

Classifications:
International (IPC 8-9): A63B59/02 (Advanced/Invention)
International (IPC 1-7): A63B65/12
CPC: A63B59/0088 A63B59/02 A63B2208/12
European: A63B59/02 K63B208/12 K63B59/00T



Family:

Publication number	Publication date	Application number	Application date
GB788399 A	19580102	GB19540035058	19541203

Priority:

GB19540035058 19541203

Assignee(s): (std): DOUGLAS VON ARNHEM

Title: Improvements in and relating to captive ball games

Abstract: Source: GB813002A 813,002. Captive balls. JASON and #38;#38; CO. (HOVE) Ltd., and JACKSON, A. G. July 16, 1957 [Dec. 11, 1956], No. 37771/56. Class 132(2) A captive football a is connected by an elastic member c to a ground anchor b which may be a block of wood, metal, cement or plaster or a box or bag filled with sand or pebbles. The ground anchor may have rubber feet, a ground engaging spike or a carrying handle. Various ways of attaching the member c to the ball are described.

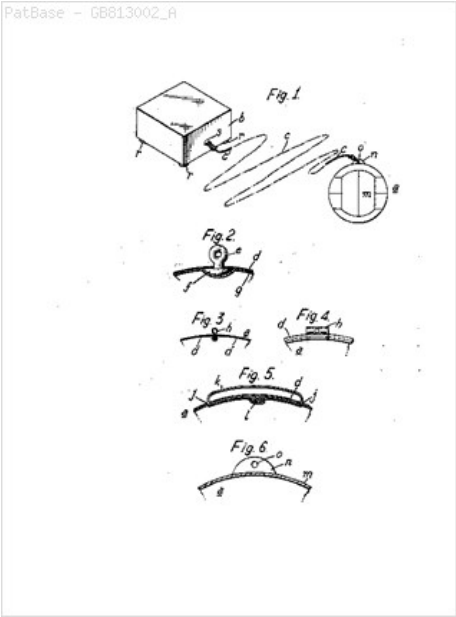
Classifications:

International (IPC 8-9): A63B69/00 (Advanced/Invention);
A63B71/02 (Advanced/Non-invention);
A63B69/00 (Core/Invention);
A63B71/02 (Core/Non-invention)

International (IPC 1-7): A63B69/00

CPC: A63B69/0079 A63B2071/024 A63B2071/026 A63B2208/12

European: A63B69/00T2 K63B208/12 K63B71/02S1P K63B71/02S1W



Family:

Publication number	Publication date	Application number	Application date
GB813002 A	19590506	GB19560037771	19561211

Assignee(s): (std): ABRAHAM GERALD JACKSON ; JASON AND CO HOVE LTD

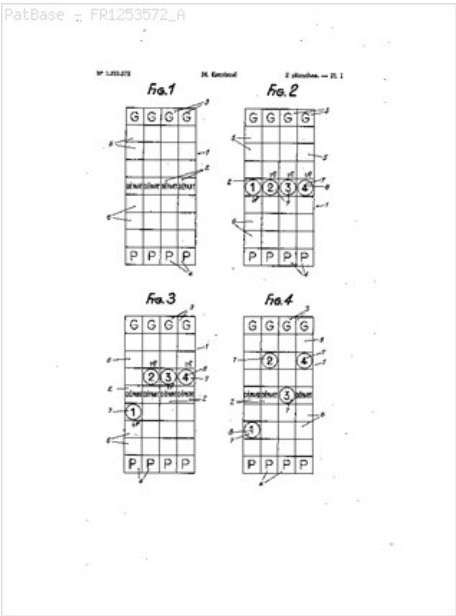
Assignee(s): JASON AND CO HOVE LIMITED

Title: Jeu de societe Board Game (Machine translation)

Abstract: Source: FR1253572A (Claim 1) 1 Jeu de societe constitue par un damier qui comprend une serie de cases parmi lesquelles une rangee porte l'indication depart dans la partie mediane du damier, une deuxieme rangee l'indication G (gagne) et une troisieme rangee l'indication P (perdu), ces deux dernieres rangees etant disposees respectivement a chaque extremite du damier. Les cases intermediaires placees entre la rangee de cases depart et les rangees de cases gagne et perdu sont destinees au cheminement de pions ou figures dont les deplacements manuels ou mecaniques sont determines par le hasard, par exemple par tournage de des ou lan cement de billes dans des cases, afin d'obtenir pour - chaque j oueur un nombre pair ou impair.

Machine translation: (Claim 1) 1 Board Game is a **grid** pattern that includes a series of boxes including a row is marked departure in the median of the board, a second row indication of G (wins) and a dication in the third row P (lost), these last two rows being arranged respectively at each end of the board. The intermediate boxes placed between the row of boxes and starting rows of boxes wins and destinies are lost in the fireplace ment pawns or figures whose manual or mechanical displacements are determined by chance, for example by shooting the **ball** or lan financing in boxes, to get to - every day oueur an odd or even number.

Classifications:
International (IPC 8-9): A63F9/14 (Advanced/Invention);
A63F9/14 (Core/Invention)
International (IPC 1-7): A63F3/00
CPC: A63F9/14
European: A63F9/14



Family:

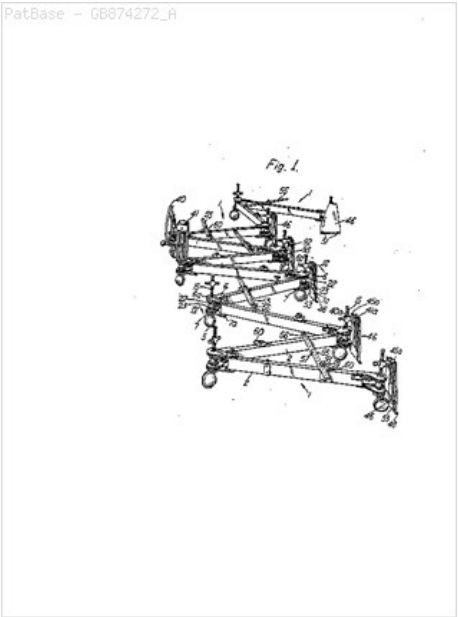
Publication number	Publication date	Application number	Application date
FR1253572 A	19610210	FR19600823214	19600401

Priority:
FR19600823214 19600401
Inventor(s): (std): ESCALMEL JEAN

Title: Improvements relating to apparatus for shifting stage scenery

Abstract: Source: GB874272A 874,272. Stage scenery shifting apparatus. PACKMAN MACHINERY Ltd., and BRITISH BROADCASTING CORPORATION. Sept. 3, 1959 [June 4, 1958], No. 17868/59. Class 132(1). [Also in Group XXV] Scenery shifting apparatus, which is mounted on castors, can be releasably secured to the scenery at intervals along its length and includes a number of jacks which can be raised and lowered simultaneously to raise and lower the scenery. As shown, a zig-zag framework 1 made up of tubular arms 2 has a castor 3 at each angle. The ends of each arm 2 carry upper and lower plates 6, 7 which with plates 6a, 7a of the adjacent plate turn respectively round sleeves 8, 9. Each castor 3 is rotatably mounted on a plate 10 rigidly secured to a plate 7 or 7a. A support 21 carrying two sprocket wheels 22, 23 is secured at each angle.. to a spindle 15 whose base engages a **ball** bearing 16 in the plate 10 and is held vertical by sleeves 17, 18 which engage flanges 29, 30 on sleeves 8, 9, the latter flanges engaging plates 6, 7 to prevent vertical movement of spindle 15. Sprocket wheels 23, Fig. 4, are connected by a continuous chain 35 guided by wheels 36 and sprocket wheel 22 is connected by a chain 37 guided by wheels 38 to a wheel 22a at the end of the adjacent arm 2 so that the whole framework is connected up and movement of one spindle by a handwheel 40 geared thereto moves the whole framework. A tapped block 40a threaded on the upper end of each spindle 15 5 carries diametrically opposite grooved pins 41a and if the block 40a is prevented from rotating with spindle 15 as it rotates block 40a rises or falls so operating like a jack. Either pin 41a of each block may be secured in a socket 44 and the sockets may be fixed rigidly to the back of the scenery to be moved. Otherwise the sockets 44 may each be fixed to the back of a vertical plate 45a rigid with a plate 46 faced with felt to engage the front of the scenery 47 and a platform 48 to engage a cutaway 49 in scenery 47, a plate 50 on the scenery extending through a slot 51 in the plate 46 and having a slot which is engaged by a bolt 53 on the plate 46. In use, the apparatus is pulled out and the plates are engaged with portions 49 and secured. Wheel 40 is then rotated and the scenery is lifted,-the apparatus being sufficiently heavy, counter weighted if necessary, to prevent it from toppling over. Arms 2 may be secured relatively to one another by strips 55 pivoted at one end 56 to one arm 2 and having a series of holes 57 through which a pin 58 may be passed which also passes through a slot 59 in a plate 60 secured to the other arm 2. Alternatively, pivoted bars 60 may be secured to the framework by discs 65, 68 held separated by spacers and secured to the arm by braces 66 and nuts 67. The edges of discs 65, 68 are clamped on bar 60 by turning a screw.70. The scenery. may be supported additionally by struts releasably connected to the scenery and to adjacent spindles 15. An adaptor may be provided for use 'in attaching the apparatus to hinged flats near the hinge which includes a socket to receive one of the pins 41a. Alternatively hydraulic jacks may be used. In further apparatus, Fig. 15 (not shown) a series of hydraulic jacks are provided all connected to a single control. Fig. 16 (not, shown) illustrates an arrangement of mechanical jacks operated simultaneously by a system of connecting rods.

Classifications:
International (IPC 8-9): A63J1/02 (Advanced/Invention);
A63J1/00 (Core/Invention)
International (IPC 1-7): A63J1/02
CPC: A63J1/02
European: A63J1/02



Family:

Publication number	Publication date	Application number	Application date
GB874272 A	19610802	GB19580017868	19580604

Priority:

GB19580017868 19580604

Assignee(s): (std): BRITISH BROADCASTING CORP ; PACKMAN MACHINERY LTD

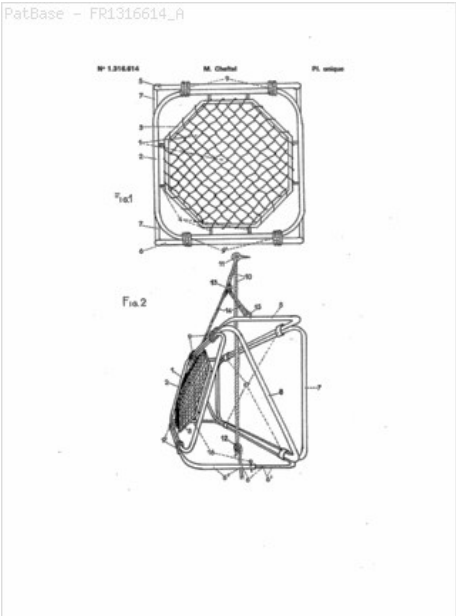
Inventor(s): (std): LEVIN RICHARD ; MAIR DOUGLAS WILLIAM ; MORTON DAVID CHARLES ; PACKMAN PERCIVAL JAMES

Title: Appareil pour renvoyer un ballon Apparat^{us} for returning a ball (Machine translation)

Abstract: Source: FR1316614A (Claim 1) 1 L'appareil est constitue,par une paroi elasti que tendue a l'interieur d'un chassis fixe a un sup port destine a le presenter en position d'utilisation c'est-a-dire,a l'horizontale de l'origine idu lancer d'un ballon, notamment- d'un medicin.e-bail, et normalement a sa trajectoire;

Machine translation: (Claim 1) 1 The device is composed, as a Elasti wall that stretched inside a frame fixed to a sup port for the present in-use position that is to say, the horizontal origin idu launch a balloon, including a medicin.e-lease, and normally has its trajectory;

Classifications:
International (IPC 8-9): A63B69/00 (Advanced/Invention);
A63B69/00 (Core/Invention)
International (IPC 1-7): A63B63/00
CPC: A63B69/0097
European: A63B69/00W



Family:

Publication number	Publication date	Application number	Application date
FR1316614 A	19630201	FR19610882456	19611219

Priority:

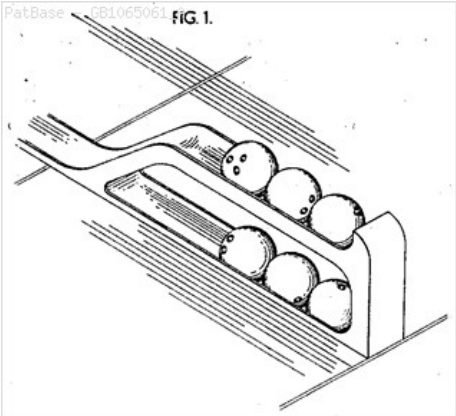
FR19610882456 19611219

Inventor(s): (std): CHEFTEL CYRILLE

Title: IMPROVED AUTOMATIC SCORE COMPUTING AND DISPLAY DEVICE

Abstract: Source: GB1065061A 1,065,061. Bowling alley scoring apparatus. BRUNSWICK CORPORATION. March 17, 1964, No. 11203/64. Headings G4B and G4D. Scoring apparatus for use with a bowling alley may be operated by a keyboard or automatically by sensing the number of pins knocked down. First and second **FIG. 1** scores are entered, in the former case, on different rows and provision is made for correcting errors within a predetermined time, key-lock to prevent multiple entry in a row, the accumulation of scores by teams and individual players, the entry of bonus points, handicaps and pacebowler scores. Running totals are recorded on plastic or metal strips which are conveyed to display racks, an optical system then projecting an enlarged image on appropriate parts of display panels, one 9 for the players and another 10 for the public. In the automatic arrangement, not only are pins counted when knocked down but if all pins are knocked down a scanning device causes entry of the appropriate bonus points. Fouls are detected by photo-electric apparatus.

Classifications:
International (IPC 8-9): A63D5/04 (Advanced/Invention);
A63D5/00 (Core/Invention)
International (IPC 1-7): A63D5/04
CPC: A63D2005/048 A63D5/04
European: 42M14F A63D5/04



Family:

Publication number	Publication date	Application number	Application date
GB1065061 A	19670412	GB19640011203	19640317
GB1065062 A	19670412	GB19650025074	19640317
GB1065063 A	19670412	GB19650025075	19640317
GB1065064 A	19670412	GB19650025076	19640317
GB1065065 A	19670412	GB19650025077	19640317
GB1065066 A	19670412	GB19650025078	19640317

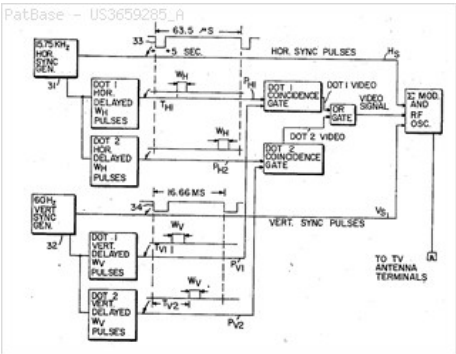
Priority:
GB19640011203 19640317
Assignee(s): (std): BRUNSWICK CORP
Inventor(s): (std): REYNOLDS EUGENE EARL

Title: TELEVISION GAMING APPARATUS AND METHOD

Abstract: Source: US3659285A Apparatus and methods are herein disclosed for use in conjunction with standard monochrome and color television receivers, for the generation, display and manipulation of symbols upon the screen of the television receivers for the purpose of playing games, **training** simulation and for engaging in other activities by one or more participants. The invention comprises in one embodiment a control unit, connecting means and in some applications a television screen overlay mask utilized in conjunction with a standard television receiver. The control unit includes the control means, switches and electronic circuitry for the generation, manipulation and control of video signals representing symbols which are to be displayed on the television screen. The symbols are generated by voltage controlled delay of pulses and coincidence gating. The connecting means couples the video signals to the receiver antenna terminals thereby using existing electronic circuits within the receiver to process and display the signals. An overlay mask which may be removably attached to the television screen may determine the nature of the game to be played. Control units may be provided for each of the participants. Alternatively, games may be carried out in conjunction with background and other pictorial information originated in the television receiver by commercial TV, closed-circuit TV or a CATV station.

Classifications:

International (IPC 8-9): A63F13/00 G08B5/22 G09B7/00 H04N7/18 (Advanced/Invention);
A63F13/00 G08B5/22 (Core/Invention)
International (IPC 1-7): A63F13/00 A63F9/00 A63F9/22 G06K15/20 G08B5/22 G09B7/00 H03K3/00 H04N5/00 H04N5/22 H04N7/00 H04N7/18 H04N9/00
CPC: A63F13/00
European: A63F13/00
US: 178/6.8 178/68 250/217CR 250/549 273/85 315/22 315/30 315/377 340/324A 345/156 345/157 348/121 348/553 348/563 463/3 463/31 463/37 463/5



Family:

Publication number	Publication date	Application number	Application date
BE754932 A1	19710217		19700817
CA927864 A1	19730605		00000000
CA927864 A2	19730605	CA19720141190	19720503
CA999888 A1	19761116		00000000
CA999888 B	19761116	CA19750236711	19750930
CH534989 A	19730315	CH19700012306	19700813
DE2030959 A1	19710304	DE19702030959	19700623
DE2030959 B2	19730607	DE19702030959	19700623
DE2030959 C3	19731220	DE19702030959	19700623
FR2059595 A1	19710604	FR19700029530	19700811
FR2059595 B1	19760528	FR19700029530	19700811
GB1328223 A	19730830	GB19700038506	19700810
IL34263 A0	19700617	IL19700034263	19700408
IL34263 A1	19730228	IL19700034263	19700408
JP50028206 B4	19750912	JP19700071143	19700812
MY7500261 A	19751231	MY19750000261	19751230
NL7012341 A	19710223	NL19700012341	19700820
SE377889 B	19750804	SE19700011255	19700818
SE377889 C	19751113	SE19700011255	19700818
SE408373 B	19790611	SE19740015697	19741213
SE408373 C	19790920	SE19740015697	19741213
SE7415697 A	19741213	SE19740015697	19741213
SE7415697 L	19741213	SE19740015697	19741213
US3659285 A	19720425	US19690851865	19690821
USRE28598 E	19751028	US19740464023	19740425

Priority:
US19690851865 19690821 CA19700080392 19700417 CA19720141190 19720503
US19740464023 19740425

Assignee(s): (std): SANDERS ASS INC ; SANDERS ASSOCIATES INC DANIEL WEBSTER HIGHWAY SOU ; SANDER ASSOCIATES INC ; SANDERS ASSOCIATES INC
Assignee(s): SANDERS ASSOCIATES INC NASHUA N H V ST A ; SANDERS ASSOCIATES ; SANDERS ASSOCIATES INC DANIEL WEBSTER HIGHWAY SOUT ; SANDERS ASSOCIATES INC DANIEL WEBSTER HIGHWAY SOUTH NASHUA NEW HAMPSHIRE E U A ; WILLIAM L HARRISON ; WILLIAM T RUSCH ; BAER RALPH H ; HARRISON WILLIAM L ; RALPH H BAER ; RUSCH WILLIAM T
Inventor(s): (std): BAER R ; BAER RALPH H ; RALPH H BAER ; RH BAER ; RUSCH W ; RUSCH WILLIAM T ; WILLIAM L HARRISON ; WILLIAM T RUSCH ; WL HARRISON ; WT RUSCH ; W T RUSCH ; W L HARRISON ; RUSCH W T ; R H BAER ; HARRISON W L ; BAER R H ; HARRISON W ; HARRISON WILLIAM L
Inventor(s): L HARRISON WILLIAM ; T RUSCH WILLIAM ; BAER RALPH H MANCHESTER ; H BAER RALPH

Title: COILED RESILIENT BALL

Abstract: Source: US3817520A A sporting game comprising a ball which can be hit between game players positioned on a fixed court. The ball consists of two coiled strips of a lightweight material, each of said strips defining a plurality of coils and each of said coils of a first one of said strips being perpendicular to the planes defined by the coils of a second one of said strips, at least one of the coils of said first strip being positioned between adjacent ones of said coils in said second strip, at least one of the coils of said second strip being positioned between adjacent ones of said coils in said first strip, said first and second strips being secured together at right angles to each other at a predetermined area. The players, in a preferred embodiment, attempt to hit the ball over a net by means of special disc-like paddles.

Classifications:

International (IPC 8-9): A63B43/00 A63B59/00 A63B59/02 A63B67/00 A63B67/18 (Advanced/Invention);

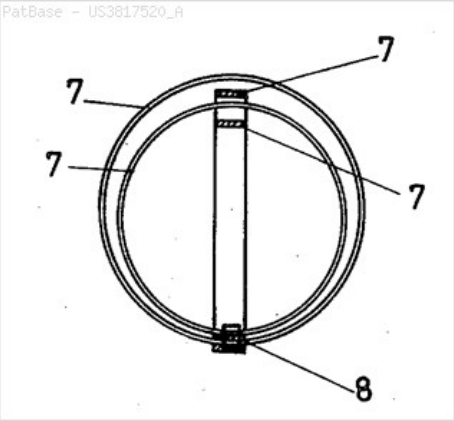
A63B43/00 A63B59/00 A63B67/00 A63B67/18 (Core/Invention)

International (IPC 1-7): A63B39/00 A63B59/02 A63B59/18 A63B61/00 A63B67/00 A63B67/18 A63B71/02

CPC: A63B59/00 A63B67/002 A63B67/18 A63B43/00

European: A63B43/00 A63B59/00 A63B67/00B A63B67/18

US: 273/317 273/95R 473/612



Family:

Publication number	Publication date	Application number	Application date
DE7225259 U	19721005	DE19725025259U	19720706
FR2151829 A5	19730420	FR19720023136	19720627
GB1401327 A	19750716	GB19720040494	19720831
GB1401328 A	19750716	GB19730044869	19720831
IT965949 A	19740211	IT19720051837	19720728
JP48033940 A2	19730515	JP19720087050	19720830
JP51026090 B4	19760804	JP19720087050	19720830
US3817520 A	19740618	US19720284618	19720829
US3907296 A	19750923	US19730386443	19730807

Priority:

ES19710394675 19710831 US19720284618 19720829 US19730386443 19730807

Assignee(s): (std): BURGOS D ; BURGOS D JOSE SOTO ; SOTO B ; SOTO BURGOS JOSE ; SOTO BURGOS J

Assignee(s): BURGOS D US

Inventor(s): (std): BURGOS D ; BURGOS D JOSE SOTO

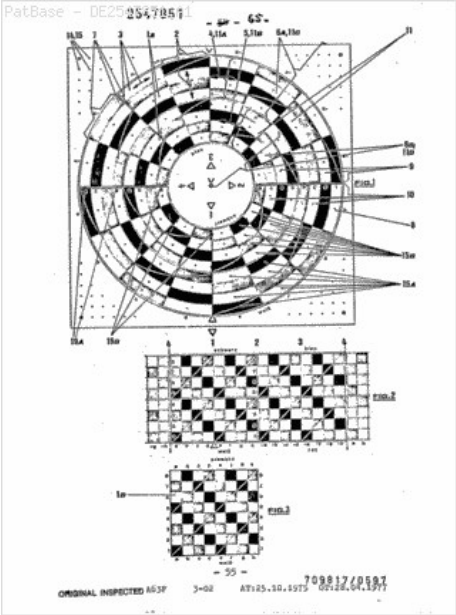
Inventor(s): BURGOS D US

Title: EIN- ODER MEHRTEILIGE SPIELEINRICHTUNG ZUR DARSTELLUNG EINER ODER MEHRERER SPIELFLAECHEN... CIRCULAR BOARD FOR CHESS OR DRAUGHTS - IS DIVIDED INTO EIGHT CONCENTRIC RINGS MARKED IN TWO DARK AND TWO LIGHT SHADES

Abstract: Source: DE2547851A1 Patent anstrueche %)Ein oder mehrteilige Spieleinrichtung zur Darstellung einer oder mehrerer Spielflae'chen in ringfoermiger und/oder quadratischer Form mit Feldeinteilungen, Spielmitteln wie Steinen, Figuren, Symboltraegern oder Symbolanzeigen, mit oder ohne Einrichtungen zum Zentrieren und/oder Bewegen der Spielmittel, zum Bewegen ganzer Spielmittelgruppen gegeneuber anderen, zum Arretieren der Spielmittelgruppen= stellungen zueinander, zum Markieren von Grenzen, zur Notation und/oder Uebertragung des Spielstandes und/oder Spielverlaufs zu externen Elektronikeinrichtungen wie elektronischen Speichern usw. This board for chess or draughts has an outer playing ring within a **square** outer board and central playing ring. The circular playing ring is divided into eight concentric ring strips. Each ring strip is divided into sixteen segments. The ring strips are numbered '1' to '8' while the segments are lettered anti-clockwise 'a' to 'h' and 'a' -h. Each field is coloured alternately dark and light using white and red for light, and blue and black for dark colours. The **squares** of each colour form spirals in a clockwise direction to the centre. The anti-clockwise spirals consits of alternate **squares** of the two dark colours and are emphasized by a light line along the spirals. The game can be played by four players with sets of chess pieces of different colours. The white and red pieces are placed on the outer field, while the blue and black pieces start from the inner zone. This board produces a game using the normal chess rules which has many more variations than the normal game.

Classifications:

International (IPC 8-9): A63F3/02 (Advanced/Invention);
A63F3/00 A63F9/24 (Advanced/Non-invention);
A63F3/02 (Core/Invention);
A63F3/00 A63F9/24 (Core/Non-invention)
International (IPC 1-7): A63F3/02 G07C1/28
CPC: A63F3/00176 A63F3/00643 A63F9/24 A63F2003/00277
European: A63F3/00B1 A63F3/00E K63F3/00B5A1C K63F9/24



Family:

Publication number	Publication date	Application number	Application date
DE2547851 A1	19770428	DE19752547851	19751025

Priority:

DE19752547851 19751025

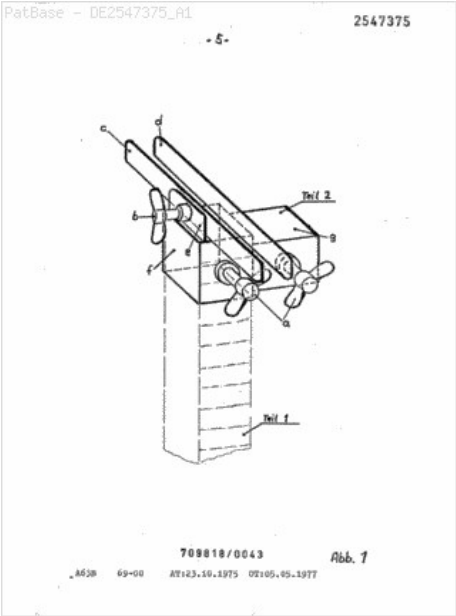
Assignee(s): (std): SPRUNG HARTWIG

Inventor(s): (std): SPRUNG HARTWIG

Title: BEFESTIGUNG FUER GYMNASTIKREIFEN AN HOCHSPRUNGSTAENDERN VOLLEY BALL TRAINING TARGET HOOP ATTACHMENT - USES HIGH JUMP SUPPORT STANDS AS ATTACHMENT BASE FOR CLAMPS WHICH HOLD TARGET

Abstract: Source: DE2547375A1 Befestigung fuer Gymnastikreifen an Hochsprungstaendern dadurch gekennzeichnet,dass die Refestigung hauptsaech lich aus einem Vierkantprofilrohr besteht,an dessen oberen Ende zwei Backen befestigt sind,zwischen denen sich eine dritte Backe befindet, die mittels einer Schraube zwischen den beiden befestigten Backen beweg lich ist,und dass ein zweites Stueck Vierkantprofilrohr, das dem ersten gleich ist,an dem ersteren Vierkantprofil rohr horizontal rechtwinklig befestigt ist. The device attaches gymnastic hoops to high jump stand supports and consists mainly of a four **square** profile pipe with two jaws connected to it's upper end. A third jaw is located between them which is movable by a screw between the two attached jaws. A second section of **square** pipe has a horizontal attachment at right angles to the first. The distance between the two attached jaws is kept to ensure that target hoops or rings may be clamped between the fixed and the movable jaw. The means of attachment may be made from sheet metal, cast iron or plastic.

Classifications:
International (IPC 8-9): A63B5/02 (Advanced/Invention);
A63B5/00 (Core/Invention)
International (IPC 1-7): A63B69/00
CPC: A63B5/02
European: A63B5/02



Family:

Publication number	Publication date	Application number	Application date
DE2547375 A1	19770505	DE19752547375	19751023

Priority:
DE19752547375 19751023

Assignee(s): (std): SCHMELZ NORBERT
Inventor(s): (std): SCHMELZ NORBERT

Diana A

Search history

Search 1: TAC=(FRAME AND WHEEL* AND (NET OR GRID)) (Results 23)

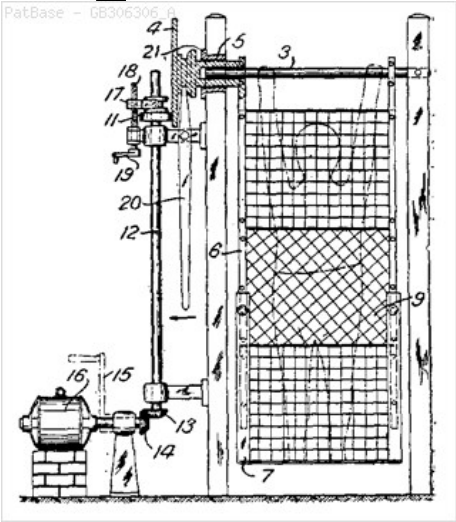
Search 2: TAC=(FRAME AND WHEEL* AND (NET OR GRID)) and IC=(A63B) (Results 0)

Search 3: TAC=(FRAME AND WHEEL* AND (NET OR GRID)) and IC=(A63B) (Results 210)

Title: Horizontal bar

Abstract: Source: GB306306A 306,306. Treuner, F. March 23. 1928. Exercising-apparatus.-An horizontal bar 3 is provided with a safety net 9 which is rotatable about the bar itself by a hand crank 15 or a motor 16 through friction gear 11, 4 and bevel wheels 13, 14. The friction disc 4 is integral with a sleeve rigid with the frame 6, 7 carrying the net 9. The roller 11 is adjustable along the shaft 12 to vary the drive by means of handle 19, screw 18, and a fork 17 engaging the wheel 11. A bearing 5 for the sleeve carrying the disc 4 has a brake disc 21 so that by moving a hand lever 20 the drive 11, 4 is broken and the brake disc 21 arrests the hub of the disc 4 and the net 9.

Classifications:
International (IPC 8-9): A63B1/00 (Advanced/Invention); A63B1/00 (Core/Invention)
International (IPC 1-7): A63B1/06
CPC: A63B1/00
European: A63B1/00



Family:

Publication number	Publication date	Application number	Application date
DE461279 A	19290810		00000000
GB306306 A	19290221	GB19280008885	19280323

Priority:
GB19280008885 19280323

Probable Assignee: FEODOR TREUNER

Assignee(s): (std): FEODOR TREUNER

Title: HORIZONTAL BAR

Abstract: Source: US1728313A 1. A safety device for horizontal bars, coinprising in combination with the horizontal bar proper, a frznne with a **net** mounted on said horizontal har so that it can rotate around the same, a friction **wheel**-gear connecting said **frame** to said horizontal har, and a. driving gear tor rotating said safety **net** around said horizontal har.

Classifications:

International (IPC 8-9): A63B1/00 (Advanced/Invention);

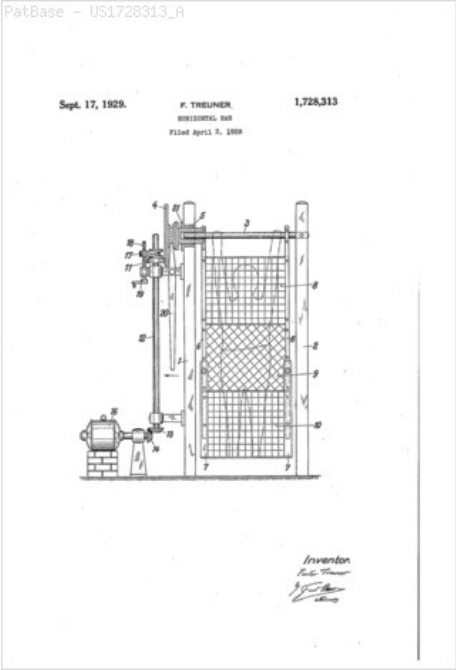
A63B1/00 (Core/Invention)

International (IPC 1-7): A63B1/06

CPC: A63B1/00

European: A63B1/00

US: 482/38



Family:

Publication number	Publication date	Application number	Application date
US1728313 A	19290917	US19280266746	19280402

Priority:

19261115 US19280266746 19280402

Probable Assignee: FEODOR TREUNER

Assignee(s): (std): FEODOR TREUNER

Inventor(s): (std): FEODOR TREUNER

Inventor(s): TREUNER FEODOR

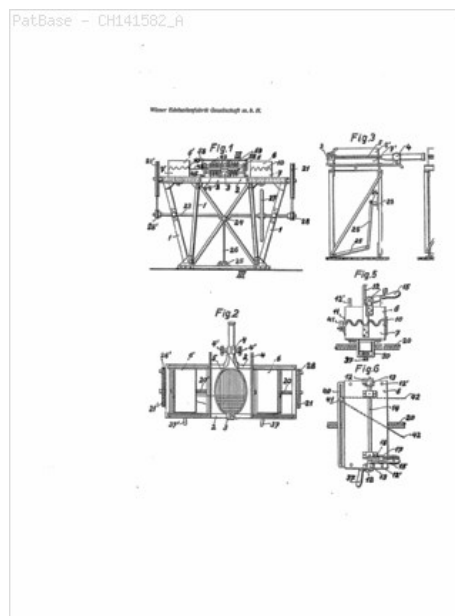
Title: EINRICHTUNG ZUM BESpanNEN VON TENNISSCHLAEGERN MIT SaitEN. DEVICE FOR COVERING OF TENNIS SLEEP WITH STRINGS EGERN. (Machine translation)

Abstract: Source: CH141582A PATENTANSPRUCH: Einrichtung zum Bespannen von Tennis- @chlaegern mit 'Saiten, dadurch gekennzeich **net**, dass dieselbe eine Einspannvorrichtung (3, 4) fuer den Tennisschlaegerrahmen (5) und ueber Getriebe (23, 24, 25) bewegte Einrichtung (6, 7, 6', 7') zum Einklemmen der Saiten.aufweist, die zueinander derart an geordnet sind, dass die in den 'Schlaeger ein gefaedelte Saite bei Betaetigung der Klemm vorrichtung gespannt wird. UNTERANSPRUECHE: 1. Einrichtung nach Patentanspruch,.da durch gekennzeichnet,.dass die Klemm backen (6, 7, 6', 7') der zum Einklemmen der Saiten dienenden Klemmvorrichtung an ihrer wirksamen Flaech e Riffeln (10) besitzen. '?'. Einrichtung nach Patentanspruch und Unteranspruch 1, dadurch gekennzeichnet **net**, dass die Riffeln (10) wellenfoermig ausgebildet sind und ineinander ein greifen. 3. Einrichtung nach Patentanspruch und Unteranspruechen 1 und 2, dadurch ge kennzeichnet, dass die geriffelten Flae chen von einem schmiegsamen Stoff be deckt sind. 4. Einrichtung nach Patentanspruch und Unteranspruechen 1 bis 3, dadurch ge kennzeichnet, dass.das Getriebe fuer die Betaetigung der Klemmvorrichtungen,.aus einer durch Hand, Fuss oder m-otoriseh getriebenen Welle (23), einer durch diese Welle (23) in Taetigkeit gesetzten Schrau benspindel (20, 20') und einer mit dieser zusammenarbeitenden und an der Klemm- vorrichtung (6, 7, 6', 7') befestigten?Mutter (31, 32) besteht. 5. Einrichtung nach Patentanspruch und Unteranspruechen 1 bis 4, dadurch -e- kennzeichnet,.dass die Mutter der Klemm vorrichtung aus mehreren Teilen (31, 32) besteht, die derart verschiebbar,.angeord- **net** sind, dass sie durch ihre Verschie bung in oder ausser Eingriff mit der Schraubenspindel (20, 20') gebracht wer den koennen. 6. Einrichtung nach Patentanspruch und Unteranspruechen 1 bis 5, dadurch ge kennzeichnet, dass zur Erleichterung,.des Einziehens der Quersaiten (42) gegen einander bewegliche Elemente (48) vor- geschen sind, welche geeignet sind, an den Laengssaiten (54) anzugreifen und aus ihnen ein Fach zu bilden. 7. Einrichtung nach Patentanspruch und Unteranspruechen 1 bis and lt;B and gt;6, and lt;/B and gt; dadurch ge kennzeichnet, dass.die zur Fachbildung dienenden Elemente (48) entsprechend dPr Entfernung der Laengssaiten (54) einstellbar sind. B. Einrichtung nach Patentanspruch und Unteranspruechen 1 bis 7, dadurch ge kennzeichnet, dass fuer die Fachbildung Kaemme (43, 44) vorgesehen sind, die Zaehne (48) tragen und auf Bolzen (50, 51) lagern, welche durch ein Stellwerk (55, 56) gemeinsam verdrehbar und fest stellbar sind, um die notwendige Kreuz zung der Laengssaiten (54) zur Fachbil dung fuer das Durchziehender 'Quersaiten (42) zu erzielen. 9. Einrichtung nach Patentanspruch und Unteranspruechen 1 bis 8, dadurch ge kennzeichnet, dass zwei Klemmvorrich tungen (6, 7, 6', 7') vorgesehen sind, die zu beiden Seiten der Einspannvorrich- tung (3, 4) fuer den 'Schlaeger (5) an geordnet sind. 10. Einrichtung nach Patentanspruch, da durch gekennzeichnet, dass die Einspann vorrichtung fuer den Tennisschlaeger rahmen Klemmbacken (150, 1,51) fuer den Griff (148) des Schlaegers und Klemm backen (168, 169) fuer die Seitenteile (157) des Rahmens aufweist. 11. Einrichtung nach Patentanspruch und Unteranspruch 10, dadurch gekenn- zeichnet, dass.die einander gegenueber liegenden Klemmen (168, 169) fuer die Rahmenseitenteile (157) derart mitein ander verbunden sind, dass sie sich nur symmetrisch zueinander bewegen koennen. 12. Einrichtung nach Patentanspruch und Unteranspruechen 10.bis 11, dadurch ge kennzeichnet, dass die Klemmbacl@en (169, 169') fuer die Rahmenseitenteile (157) feststellbar sind. 13. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis 12, dadurch ge kennzeichnet, dass fuer jeden Rahmen seitenteil (157) zwei Klemmen (168, 169) vorgesehen sind. 1.4. Einrichtung nach Patentanspruch, da durch gekennzeichnet, dass jede Klemm vorrichtung (D) zum Einklemmen der Saiten um eine Welle (124) drehbar an geordnet ist,.derart, dass durch ihre-Ver- drehung,.die in den Schlaeger eingefaedelte Saite (190) gespannt wird. 15. Einrichtung nach Patentanspruch und Unteranspruch 14, dadurch gekenn zeichnet, dass die Klemmvorrichtung (D) in der Laengsrichtung der Welle (124) verschiebbar angeordnet ist. 16. Einrichtung nach Patentanspruch und Unteranspruechen 14 und 15, dadurch ge kennzeichnet, dass an der Klemmvorrich tung (D) Mittel (143, 146) vorgesehen sind, welche bei Verdrehung ihrer Welle in,.der einen Richtung zuerst die Klemm backen (130, 131).aneinanderpressen und bei Weiterdrehung,.die Klemmvorrich tung mitnehmen, waehrend bei Verdre hung in der andern Richtung zuerst die Luftleitung der Klemmbacken erfolgt. 17. Einrichtung nach Patentanspruch und Unteranspruechen 14 bis 1,6, dadurch ge kennzeichnet, dass die Mittel aus einem mit der Welle (124) auf Drehung ge kuppelten Arm (143) und einem.an die sen angelenkten und mit einem der Klemmbacken (1.36) verbundenen Len ker (146) bestehen. 18. Einrichtung nach Patentanspruch und Unteranspruechen 14 und 15, dadurch ge- kennzeichnet, dass die beiden Klemm backen (251, 254) gelenkig miteinander verbunden sind. 19. Einrichtung nach.Patentanspruch und Unteranspruechen 14, 15 und 18, dadurch gekennzeichnet, dass der eine Klemm backen (251) auf einem mit.der Welle (1.24) auf Drehung gekuppelten Hohl koerper (250) fix angebracht und.der zweite Klemmbacken (254) auf einem mit dem Hohlkoerper (250) gelenkig verbun denen Arm (253) angeordnet ist.?.0. Einrichtung nach Patentanspruch und Tnteranspruechen 14, 15, 18 und 19,.da durch gekennzeichnet,.dass die Klemm backen (251, 254) so angeordnet sind, dass idie zu spannende Saite (190) vor ihrer Durchfuehrung zwischen.den Klemmbacken (251, 254) um die Aussen seite:.des einen Klemmbackens (2'54) her umgeschlungen werden kann,.derart, dass bei Verdrehung der Welle (124) die bei den Klemmbacken (251, 254) durch die Spannung der Saite (190) aneinander ge presst werden. 21. Einrichtung nach Patentanspruch und Unteranspruechen 14 bis 20, dadurch ge- kennzeichnet,.dass die Klemmvorrichtung (D#) eine Auflaiegef-aeche (13i8) fuer idi-3 ISaite. (190) laufweist, die derart aus gebildet ist, idass eine Tangente an idiese Flaech e in idie Arbeitsebene faellt. 22. Einrichtung nach Patentanspruch und Uutera.nspruechen 14 bis 21, idadurch.ge- keninzeichnet, dass mit der K,lemamvor- richfizm (D) eine Anzeigevorrichtung (139, 139') verbunden ist, sauf welcher ider Verdrehungswinkel gegenueber der Ruhelage.abgelesen werden kann.. 23. Einrichtung nach Patentanspruch und Unteranspruechen 14 bis 22, dadurch ge kennzeichnet, dass mit der Klemm- vorrichtung (D) ein Zugmesser (126) verbunden ist, auf welchem @dfer auf,die Saite ausgeuebte Zug in Kilogramm ab gelesen werden kann. 24. Einrichtung nach Patentanspruch und U,nterans.p.rueehen 14 bis 2,3, diladurch ge- kennzeichnet, idass fuer den Antrieb der Wellen (12i4):der Klemmvorrichtung (D),Zugorgane (120; 1.2:1) vorgesehen sind,.die von ider Antriebswelle (108) betaetigt werden koennen. 2.5. Einrichtung nach Patentanspruch und Unteranspruechen 14 bis 24, dadurch ge- kennzeichnet, dass idie als :Seile (120, 12-1) ausgebildet sind, (die auf wahlweise mit ider Antriebswelle (108) kuppelbiaren Rollen (109, 110) sind'. 216. Einrichtung, nach Patentanspruch und Unteranspruechen 10 bis and lt;B and gt;25, and lt;/B and gt; dadurch ge kennzeichnet, dass sie zum Festhalten der gespannten Saite (190) einen @Saiten- halter (Fixateur) aufweist. 27. Einrichtung nach Patentauspruci und Unteranspruechen 10 bis 2,6, dadurch ge kennzeichnet, dass der Saitenhalter (E) i11 zwei aufeinander senkrechten Riah- tun:gen parallel zur Arbeitsebene ver- schiebbar angeordnet ist. and lt;B and gt;2,8, and lt;/B and gt; Einrichtung nach Patentansp-ra.ch und Unteranspruechen 10 bis 27, icladurch ge kennzeichnet, dass der Saitenhalter (E) Klemiwb:a:eken (1.8i6, 187) zum Festhalten der Saite (190) und eine Vorrichtung (19,6, 200) zum Festklemmen.des Sai tenhalters (E) auf seiner Fuehrung (185),aufweist. 29. Einrichtung nach Patentanspruch und Unteranspruechen 10)bis and lt;B and gt;28, and lt;/B and gt; dibidurch ge kennzeichnet, dass die Klemmbacken (18 and lt;B and gt;6 and lt;/B and gt;1, 18,7) zum Festhalten der Saite (1'90):der Hoehe nach verstellbar,aruge- arlnet:sind. 30. Einrichtung nach Patentanspruch und Unteranspruechen, 10 bis and lt;B and gt;29, and lt;/B and gt; (dadurch ge- kennzeichnet, idass am @S'aitenhailter.(E) Mittel (196-200) zum gleichzeitigen Festklemmen (der Saite (190) und(zum Festklemmen des.S'aitenhalters (E') an seiner Fuehrung (185) vo@rges,6hen saendi. 31.. Einrichtung nach Patentanspruch und Unteranspruechen 10 'bis 30, dia@durch ge- kennzeichnet, dass am :Slaitenhalter (E) ein Exzenter (196) iderartdrehbar an geordnet ist, idassdurch seine Verdrehung die Klemmbacken (186, 187) zum Fest halten der,Suite (190) @aneinandergepresst werden. 32. Einrichtung nach Patentansprwch und Unteranspruechen 10 bis and lt;B and gt;31, and lt;/B and gt; dadurch ge kennzeichnet, dass am -Saitenhalter (E) eine Feder (200) iderart angeordnet ist,.dass sie bei Verdrehung 'des Exzenters (196) gespannt wird und den. Saiten halter (E) an seine Fuehrungsschiene (185) presst. 33..Einrichtung nach Patentanspruch,. du durch gekennzeichnet, dassdie zur Fach- bildung @dienenden Elemente (20:8, 209) Haken (210) aufweisen, die in die Laengs saiten (189) eingehaengt werden koennen. 34. Einrichtung nach Patentanspruch und Unteranspruch 33, dadurch gekenn zeichnet, dass -die zur.Fachbildung die nenden Elemente (20:8, 209) auf mit Zahnstangen (220) versehenen Trag organen (2e1.8) befestigt simue, welche Zahnstangen (220) mit auf einer Welle (221) angebrachten Zahnraedern (222) iderart zusammenarbeiten, dass bei Ver- schwenkung der Welle die zur Fach- Mldung erforderliche Kreuzung der Laengssaiten (189) erzielt wird. 35. Einrichtung nach Patentanspruch und Unteranspruechen 33 and 34, (dadurch ge kennzeichnet, dass an der Einrichtung zur Fachbildung Mittel (2,2,8) vorgesehen sind, durch deren Betaetimmung die Trag- organe (218) fuer die zur Flachbildung dienenden Elemente (208, 209) gemein- sam heb- und senkbar sind. 3.6. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis 35, @ladureh ge kennzeichnet, dass fuer das Durchziehen,der Quersaite (190),durch das aus den Laerngssaiten (1-89) gebildete Flach ein Hilfswerkzeug (2@3i8-j241) vorgesehen ist. 37. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis and lt;B and gt;3,6, and lt;/B and gt; dadurch ge- kennzeichnet, dass das Hilfswerkzeug aus einer nach Art der Nuernberger Schere angeordneten Hebelkuembination (238) besteht, ran ideren einem Ende Klemm backen (2140) and ianderen anderem Ende Handgriffe ('239) zur Betaetigung der Schere angebracht sind. 38. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis and lt;B and gt;3,6, and lt;/B and gt; dadurch ge- ken.nzeichnet, d@ass Idas Hilfswerkzeug a-us einer durch Verseihsen'ken zu betaetigen- den Einrichtung besteht, welche einen Fuehrungsteil (2160) aufweist,.dessen:die,Seite (190) mitnehmendes Ende eine wesentlich quer.zur Richtung der Laengs saiten -des iSchlae:gers verlaufende Bewe gung au:sfuehrt. 39. Einrichtung nach Patentanspruch und UnteranspTuechen 10 bis 36 and 38, da,durch gekennzeichnet, dass die ver- s-chwenkbare Einrichtung Mittel (254, 2,60),aufweist, um dem idie.Saite klem menden Teil (260) sowohl eine Bewe gung in seiner Laengsrichtung, als auch eine Dmehrerbewegung um eine zur @Schlaeger- ebienesenkrechte Achse zu erteilen. 40. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis 36, 38 and 39, daldureh,gekenuzeiohnet, dass der die Saite klemmende Teil (260) als ein in einer Huelse (253) verschiebbar gelir"Ter- tes StaebAen (260) ausgebildet ist. 41. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis 36, 38 bis 40, dadurch gekennzeichnet, idass derdie Sait ten klemmende T(21 (260) seine Laenz s- verschieaburug durch einen ebenfalls in einer Huelse (2i51) verschiebbar gelager- ten, staelbchenartaeg ausgebildeten Teil (254) erhaelt. 42. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis 36, 3.8 'bis 41,.dadurch gekennzeichnet, dass die Laengs- verschiebung ider;staebchenartigen Teile (254, 259, 260) unter Zuhilfenahme einer Kurvenfuehrung (257) erfolgt. 43. Einrichtung nach Patentanspruch und Unteranspruechen 10 bis 36, 3'8 and 39, dadurch gekennzeichnet, dass.der Fueh rungsteil (260) durch ein flexibles Or gan gebildet wird. 44. Einrichtung nach Patentanspruch und Unteranspraechen 10 bis 3,6, 38 bis 43,.dadurch gekennzeichnet, dass das Hilfs werkzeug:an der Fuehrungsschiene (185) oedes Faeg@ateurs befestigt ist, so dass das Hilfswerkzeug durch die Verschiebung.des Fixateurs an idiejenige.Stelle gelangt, an welcher das Einlegen der Quersaite erfaelgen soll. 45. Finrichtung nach Patenbansp-uch und Unteranspruechen 10 bis 36, 38 bis 44, dadurch gekennzeichnet, dass mehrere Bespannungseinrichtungen (2146) mit einem gemeinsamen Amtriebsmotor (2,45) derart verbunden sind, zlass sie im glei chen Takte arbeiten und jede einzelne der Eaernrichtungen (246) fuer sich ab kuppelbar ist. CLAIM: means for covering tennisclaejern with 'strings, characterized in that the same a jig (3, 4) for the Tennisschlaegerrahmen (5) and by transmission (23, 24, 25) moving Einrich lines (6, 7, 6', 7') for clamping the Saiten.aufweist that are mutually arranged in such a manner that a string strung at Actuation of the clamping device is clamped in the 'rowdy. UNTERANSPRUECHE: 1. A device according to claim,.da gekennzeichnet by,.that the clamping jaws (6, 7, 6', 7') to clamp the strings of serving clamping device on their effective Area corrugations (10) have. '?'. Apparatus according to claim 1 and dependent claim, characterized in that the corrugations (10) are formed and engaged with each other wellenfoermig access. 3. Apparatus according to claim and Unteranspruechen 1 and 2, characterized in that the grooved surfaces FLAE of a pliable material be covered are. 4. Apparatus according to claim and Unteranspruechen 1 to 3, characterized in dass.das gear for the Actuation of the clamping devices, from a show of hands, feet or m-otoriseh driven shaft (23), one through this shaft (23) Activity set screw benspindel (20, 20 ') and a co-operating therewith and means on the terminal (6, 7, 6', 7 ') fastened? nut (31, 32). 5. The device of claim and Unteranspruechen 1 to 4,

characterized -e- indicates.that the mother of the clamping device of several parts (31, 32), the slidable such are arranged to advertising through their displacement in or brought out of engagement with the screw (20, 20 ') who could share a. 6. Apparatus according to claim and Unteranspruechen 1 to 5, characterized in that geschen are presented during the Erleichterung.des retraction of the cross strings (42) relatively movable elements (48), which are suitable to the Laengssaiten (54) to attack and from them to form a shed. 7. The device according to claim 1 and Unteranspruechen up and lt; B and gt; 6, and lt; / B and gt; characterized in dass.die serving for the shed forming elements (48) corresponding to the distance dPr Laengssaiten (54) are adjustable. B. A device according to claim and Unteranspruechen 1 to 7, characterized in that for the shedding combs (43, 44) are provided which carry teeth (48) and bolts (50 51) store, which through a switchboard (55, 56) are together rotated and fixed adjustable to provide the necessary Kreu tation of Laengssaiten (54) for Fachbil training for sitting through Drawing 'cross strings to obtain (42). 9. Device according to patent claim and Unteranspruechen 1 to 8, characterized in that two Klemmvorrich lines (6, 7, 6 ', 7 ') are provided, to either side of the Einspannvorrich- (3, 4) for the 'Schlaeger (5) are arranged to. 10. The device according to claim, characterized in that the chucking device **frame** for the Tennisschlaeger jaws (150, 1.51) for the handle (148) of the racket and clamping jaws (168, 169) for the side parts (157) of the **frame** has. 11. The device according to claim and dependent claim 10, characterized marked, dass.die opposing terminals (168, 169) for the **frame** side members (157) being connected mitein different that they can only move symmetrically to each other. 12. Apparatus according to claim Unteranspruechen and 10th to 11, characterized in that the Klemmbad @ s (169, 169 ') for the **frame** side members (157) are lockable. 13. Apparatus according to claim Unteranspruechen and 10 to 12, characterized in that for each **frame** are provided side part (157) has two terminals (168, 169). 1.4. Device according to patent claim, characterized such that each gripping device (D) for clamping the string is rotatable about a shaft (124) arranged to.,derart that their rotation by-comparison, the eingefaedelte in the racquet string (190) is tensioned. 15. Device according to patent claim and the dependent claim 14, characterized in that the clamping device is arranged displaceably (D) in the Laengsrichtung the shaft (124). 16. Apparatus according to claim 14 and Unteranspruechen and 15, characterized in that processing at the Klemmvorrich (D) means (143, 146) are provided which upon rotation of its shaft, the first one direction the jaws (130, 131).aneinanderpressen and take at Weiterdrehung.die Klemmvorrich tion, while increase in Verdre in the other direction, the first Lueftung.der jaws takes place. 17. Apparatus according to claim and Unteranspruechen 14 to 1.6, characterized in that the means of a mit.der shaft (124) coupled a ge on rotation arm (143) and the einem.an sen articulated and with one of the jaws (1:36) connected to Len ker (146) made 18Device according to claim Unteranspruechen and 14 and 15, characterized ized in that the two clamping jaws (251, 254) are hinged together. 19 means nach.Patentanspruch and Unteranspruechen 14, 15 and 18, characterized in that the one clamping jaw (251) on a shaft mit.der (1.24) on rotation of the coupled hollow body (250) fixedly attached und.der second jaws (254) verbun hinged on one with the Hohlkoerper (250) arranged which arm (253).? 0th A device according to claim and TJnteranspruechen 14, 15, 18 and 19.,da characterized in: that the clamping jaws (251, 254) are arranged so that ITThe to exciting string (190) prior to their implementation zwischen.den jaws (251, 254) to the outer side: can be round him of a clamping jaw (2'54) ago.derart that upon rotation of the shaft (124) in the clamping jaws (251, 254) by the tension of the string (190) to each other ge be pressed. 21. Apparatus according to claim Unteranspruechen and 14 to 20, char-., denotes that the clamping device (D #) a Auflagegef-laeche (1318) for idi 3 ISiaite. (190) iaufweist, the rist of such formed idass a tangent to idiese Area falls in ITThe working level. 22. Apparatus according to claim Uutera.nspruechen and 14 to 21, idaidurch.ge- kenzeichnet that with the K, lemamvor- richfizm (D) a display device (139, 139 ') is connected, sauf which ider twist angle opposite the Ruhelage.abgelesen can be.. 23. A device according to claim Unteranspruechen and 14 to 22, characterized in that the clamping device (D) a draw knife (126), on whichdFer on the string read from influence exercised train in kilograms can be. 24. Apparatus according to claim and U, nterans.p.rueehen 14 to 2.3, dilaidurch ized in idass for driving the shafts (1214) of the clamp (D), drawing members; are provided (120 1.2 1),, of ider drive shaft (108) can be operated. 2.5. A device according to claim Unteranspruechen and 14 to 24, character- ized in that ITThe as:.. Are formed ropes (120, 12-1), (Kuppelbiaren on the choice of ider drive shaft (108) rolls (109, 110) '216. device according to claim and Unteranspruechen 10 lt up and B and gt; 25, and lt; / B and gt; characterized in that it comprises a @ stringed holder (fixative) for holding the stretched string (190). 27. A device according to Patentausprucli Unteranspruechen and from 10 to 2.6, characterized in that the string holder (E) do i11 two perpendicular Riah-: gene parallel to the working plane comparison is arranged schiebbar and lt; B and gt; 2., 8 and gt; / B and gt; device according Patentansp-ra ch and Unteranspruechen 10 to 27, icladurch characterized, that the strings Fair (E) Klemiwb: a eken (1.816, 187) to hold the 3iaite (190) and means (19.6, 200) for Festklemmen.des Sai tenhalters (E) on its guide (185) comprises. And B gt;; 29. Apparatus according to claim 10 and Unteranspruechen) to and LT 28, and lt; / B and gt; dibidurch characterized, that the Klemmbacken (18 and lt; B and gt; 6 and lt; / B and gt;, 18.7) to hold the string (1'90): the height by adjustable aruge- arlnet: are, 30. Device according to patent claim and Unteranspruechen, LT and 10 to B and gt; 29, and lt; / B and gt; (Character- ized in idass on @ S'aitenhalter. (E) means (196-200) for simultaneously pinching (the string (190) and) for clamping des.S'aitenhalters (E ') at its Leadership (185) @ vo rges, 6hen saenidi 31.. A device according to claim Unteranspruechen and 10 'to 30, characterized by overall dia @ that on. S'laitenhalter (e) a cam (196) to iderartdrehbar is ordered, idassdurch his twisting the jaws. B and gt;; (186, 187) keep the feast of, Suite (190) areaneinandergepresst 32. A device according to Patentansprwch and Unteranspruechen 10 to 31 and lt, and lt; / B and gt; characterized in that the -Saitenhalter (e) a spring (200) is arranged idierart,, that it is gespiannt upon rotation 'of the eccentric (196) and the. tailpiece (E) to its Fuehrungsschiene (185) presses. 33.Einrichtung according Piatentanspruch., you through in thatthe for technical educationdienenden elements (20: 8, 209) hook (210) which are strings in the for length (189) can be eingehaengt. 34. Device according to patent claim and the dependent claim 33, characterized in that -the zur.Fachbildung the nenden elements (20: 8, 209) to with racks (220) provided with carrier members (2e1.8) attached simue, which racks (220) mounted on a shaft with (221) gear **wheels** (222) work together iderart that in comparison to the shaft pivoting required for specialist Mldung intersection of Laengssaiten (189) is achieved. 35.Device according to claim and Unteranspruechen 33 and 34, (characterized that are provided on the device for Fachbillunig means (2,2,8), by their Betaetieumng the supporting bodies (218) for the components used to flat forming elements (208, 209) jointly raised and lowered. 3.6. Apparatus according to claim Unteranspruechen and 10 to 35,ladureh characterized, that for sitting through drawing, the cross string (190), with the one from the Laerngssaiten (1-89) flat formed an auxiliary tool (2 @ 3i8-j241) 37. A device according to claim and Unteranspruechen is provided according to 10 and;. B and gt; 3.6, and lt; / B and gt; character- ized in that the Utility of an arranged by type of Nuremberg scissors Hebelkuemination (238) which ran ideren one end clamping jaws (2i40) and ianderen other end handles ('239) are attached to the Actuation of scissors. 38. Apparatus according to claim and Unteranspruechen 10 to and lt; B and gt; 3.6, and lt; / B and gt; char- ken.nzeichnet, d @ ass Ida Utility A-us to a betaetigen- by Verseihwen'ken the device consists having a Fuehrungsteil (2160),, which: which side (190) entraining the end of a substantially horizontally. to the direction of the longitudinal strings -of iSchlae; gers verlaufende BeWe supply au: sfuehrt. 39. Apparatus according to claim UnteranspTuechen and 10 to 36 and 38, since, characterized in that the supply means S-schwenkbare means (254, 2.60).aufweist to the idie.Saite Klem Menden part (260) both a to give bewe supply in its longitudinal extension and, as a Dmehberwegung a eibenesenkrechte to @ Bat axis. 40. Apparatus according to claim Unteranspruechen and 10 to 36, 38 and 39, daldureh, gekenuzeiohnet that the string clamping portion (260) than in a Huelse (253) slidably ECAA "terrorist tes StaebAen (260) is formed. 41. A device according to claim Unteranspruechen and 10 to 36, 38 to 40, characterized in idass derdie Sui th clamping T (21 (260) verschieaburug his Laenz s th gelager-displaced by a well in a Huelse (2i51), staebchenartaeg formed part (254) gets 42. Apparatus according to claim Unteranspruechen and 10 to 36, 3.8 'to 41, characterized.This that the longitudinal displacement ider;. staebchenartigen parts (254, 259, 260) are measured using a Kurvenfuehrung (257). 43. Apparatus according to claim Unteranspruechen and 10 to 36, 3'8 and 39, characterized in dass.der Fueh guide piece (260) is formed by a flexible Or gan. 44. A device according to claim and Unteranspraechen 10 to 3.6, 38 to 43, characterized in that the auxiliary tool: the Fuehrungsschiene (185) barren FAEG @ ateurs is mounted so that the auxiliary tool passes through the Verschiebung.des fixator to idiejenige.Stelle should erfaIgen at which das.Einlegen the cross string, 45. Finxnichtung after Patenbansp-uch and Unteranspruechen 10 to 36, 38 to 44, characterized in that a plurality stringing equipment (2146) are connected to a common Slamen Office actuator motor (2.45) such zlass they work in moving chen clocks and each of the Eaenrichtungen (246) for off detachable.

Classifications:

International (IPC 1-7): A63B51/16



Family:

Publication number	Publication date	Application number	Application date
CH141582 A	19300815		19290309

Probable Assignee: WIENER EDELSAITENFABRIK GES M

Assignee(s): (std): WIENER EDELSAITENFABRIK GES M

Assignee(s): WIENER EDELSAITENFABRIK GES M B H ; WIENER EDELSAITENFABRIK GESELLSCHAFT M B H

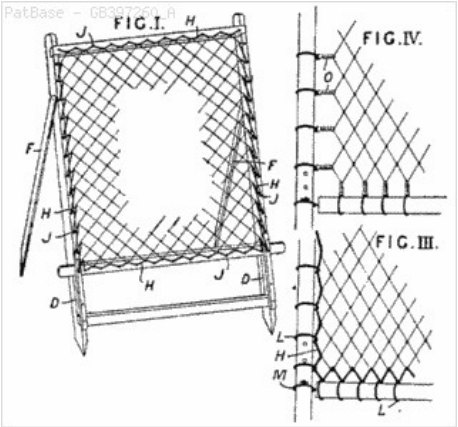
Inventor(s): (std): WIENER EDELSAITENFABRIK GESELL

Inventor(s): WIENER EDELSAITENFABRIK GESELLSCHAFT M B H ; WIENER EDELSAITENFABRIK GES M B H

Title: An improved resilient sports **net**

Abstract: Source: GB397260A 13884. [Class 132 (ii).] A sports **net** having sufficient resilience to cause a tennis ball, cricket ball, or football propelled thereagainst to be returned at considerable speed comprises an ordinary **net** of cord or other non-elastic substance, four elastic members or a single continuous elastic member H, Fig. 1, running through the outer meshes of the **net** and passing over hooks or pulleys J (or through loose rings L, Fig. III, or over pulleys attached to the loose rings) on the bars or poles of a rectangular **frame** of which one of the horizontal bars (and if desired also one of the vertical ones) is adjustable in slots D or by means of jaws or rings M for the purpose of producing considerable resilience in the **net**. In a modification, Fig. IV, each of the outer meshes of the **net** is attached to the **frame** by a short elastic cord or a spiral spring O. The **frame** may be supported by folding back stays F, Fig. 1, or may be fixed permanently in the ground, or may be erected inside a building, use being made of the walls or ceiling as part of the fixed **frame**. Three of the **nets** may be erected in the form of a miniature fives court.

Classifications:
International (IPC 8-9): A63B69/00 (Advanced/Invention);
A63B69/00 (Core/Invention)
International (IPC 1-7): A63B61/00 A63B63/00
CPC: A63B69/0097
European: A63B69/00W



Family:

Publication number	Publication date	Application number	Application date
GB397260 A	19330824	GB19320013884	19320514

Priority:
GB19320013884 19320514

Probable Assignee: GILBERT HARRISON BARTLETT

Assignee(s): (std): GILBERT HARRISON BARTLETT

Abstract: Source: GB408379A 32726. [Class 45.] A device for straining lawn tennis **nets** comprises a **frame** B adapted to be secured to the post A housing a screw D with a hook D <1> for engaging the rope. The screw is prevented from rotating by means of a cross-pin D' engaging grooves B <5> and is moved longitudinally by a nut E engaged by a bevel **wheel** F having a handle F <2> .

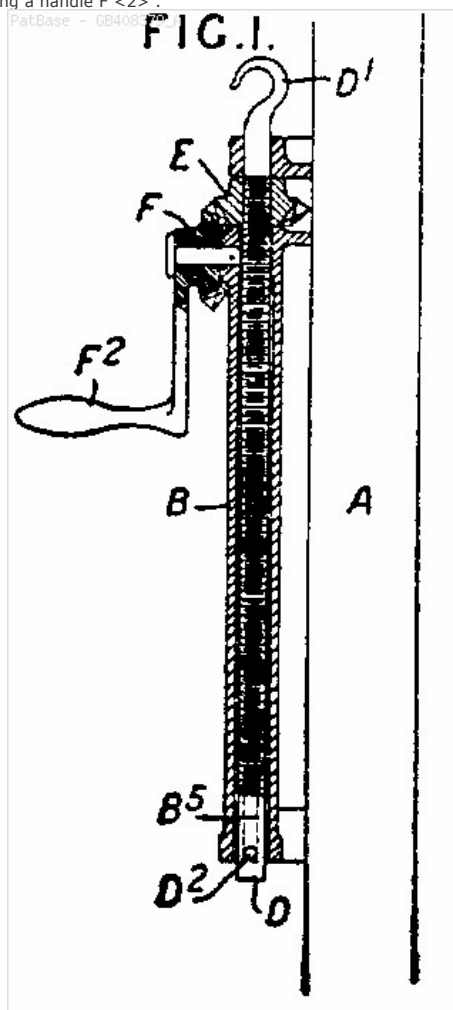
International (IPC 8-9): A63B61/02 (Advanced/Invention);

A63B61/00 (Core/Invention)

International (IPC 1-7): A63B61/04

CPC: A63B61/02

European: A63B61/02



Publication number	Publication date	Application number	Application date
GB408379 A	19340412	GB19320032726	19321119

GB19320032726 19321119

Probable Assignee: ARTHUR ERNEST LAKE

Assignee(s): (std): ARTHUR ERNEST LAKE

Title: BALL RETRIEVER

Abstract: Source: US2203170A \What is claimed is: 1. An apparatrs fbr collecting substantially non-defbrrnble balls in a storage device comprising: one or more side portions: and a bottom portion, wherein tlie one or more side portions and the bottom portion form a ball storage area for storing n1nrltiple substantially non-deformable balls, and wherein the bottom portion comprises a rigid **frame** with a rigid **grid** arranged as a network of horizontal and perpendicular members forming a ball intake area comprising a plurality of stretchable and resilient members located in the ball intake area, wherein the stretchable to li members comprise vertical and horizontal members that intersect each other at perpendicular angles, amd farther wherein the non-deformable balls pass through the stretchable and resilient members into the ball storage area. `The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein the ball intake area is large enough to allow the passage of a substantially non-deformable ball therethrough, a11d wherei.n a substantially non-deformable ball cannot pass through the rigid frzune, Iitrthter wherein the stretchable and resilient members are configured to stretch over and around the surface of a substantially non-deformable ball with application of force on the rigid frzune in the downward direction when the ball intake area is situated over the substantially nondeformable ball, and further wherei.n once the stretchable and resilient members stretch over the substantially non-deformable ball, the stretchable and resilient members begin to recoil back to an original position, treuisferring the substantially non-deformable ball through the ball intake area. 3. `The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein the rigid **frame** is further comprised of rigid members spaced out over the rigid **frame**, wherein spacing between the rigid members is not large enough to allow the passage of a substantially non-deformable ball therethrough. 4. The apparatus for collecting substantially non-detiiirmable balls in a storage device according to claim 1. further comprising **wheels** coupled to the ball storage area, wherein the device is movable via the **wheels**. 5. The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein at least one of the stretchable and resilient members located i.t1 the ball intake area traverses the intake area. 6. `The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein at lea st one of the stretchable and resilient members located i.n tlie ball intake area protrudes into the intake area, but does not make contact with the other side of the ball intake area or another stretchable and resilient member. 7. The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein tlie stretchable and resilient members form a closed area in the ball intake area defining a ball acquisition area. the ball acquisition area coupled to the rigid **frame**. 8. The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherei.n the stretchable and resilient members comprise a stretchable and resilient **grid** located in the ball intake area. 9. The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein the ball storage area comprises an open top. 10. The apparatus for collecting substantially non-deformable balls in a storage device according to claim 9, further comprising a removable lid to cover the ball storage area. 11. The apparatus for collecting substantially non-deformable balls in a storage device accordi.ng to claim 1, wherei.n the ball storage area comprises an elevator type storage area having an interior only wide enough such that collected substantially non-deformable balls are vertically stacked therein, and wherein a newly collected substantially non-deformable ball causes the collected and vertically stacked substantially non-deformable balls to move up vertically in the ball storage interior. 12. The apparatus for collecting substantially non-deformable balls in a storage device according to claim 1, wherein tlie ball stontge device comprises a loose ball storage device,

Classifications:

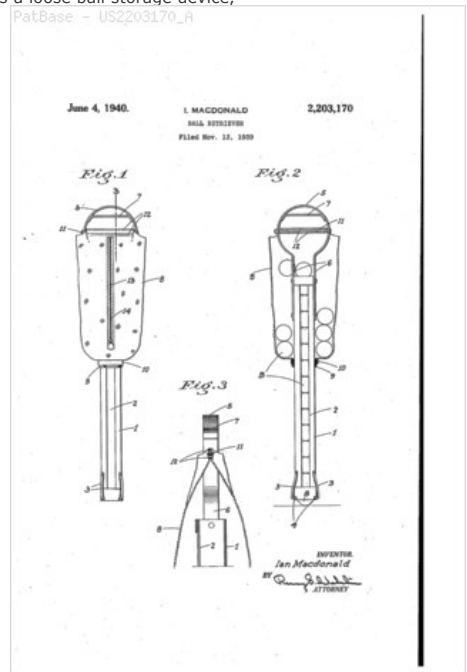
International (IPC 8-9): A63B47/02 (Advanced/Invention); A63B47/00 (Core/Invention)

International (IPC 1-7): A63B47/02

CPC: A63B47/02 Y10S190/903

European: A63B47/02

US: 190/903 206/315.9 294/19.2 56/328.1 D21/721



Family:

Publication number	Publication date	Application number	Application date
US2203170 A	19400604	US19390304075	19391113

Priority:

US19390304075 19391113

Probable Assignee: IAN MACDONALD

Assignee(s): (std): IAN MACDONALD

Inventor(s): (std): IAN MACDONALD

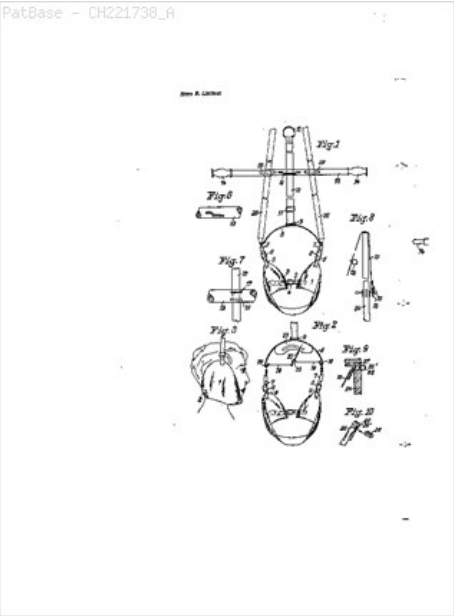
Inventor(s): MACDONALD IAN

Title: GYMNASTIKGERAET MIT UEBER MINDESTENS EIN ZUGMITTEL HEB- UND SENKBAREM KOPFHALTER FUEER DEN UEBENDEN.
GYMNASTIKGERAET WITH ON AT LEAST a traction HEB AND HEAD MOUNT FOR lowerable the exerciser. (Machine translation)

Abstract: Source: CH221738A (Claim 1) 1. Gymnastikgeraet nach Patentanspruch, dadurch.gekennzeichnet, dass das, Zugmittel aus zwei Baendern. (28) besteht, von denen je eines zu einer Seite des Kopfhalters gefuehrt ist und beide mit ihrem freien Ende an einem Querstab angreifen, von dem ein weiteres Band zu einer Aufhaengevorrichtung fuehrt.

Machine translation: (claim 1) 1 Gymnastikgeraet according to claim dadurch.gekennzeichnet, that, traction means of two bands. (28), of which one each is guided to one side of the head holder and engage both with its free end to a transverse rod, from which leads a further band to a suspension device.

Classifications:
International (IPC 8-9): A61H1/02 (Advanced/Invention);
A63B21/068 A63B21/16 A63B23/12 A63B23/14 A63B69/00 (Advanced/Non-invention);
A61H1/02 (Core/Invention);
A63B21/00 A63B21/06 A63B23/035 A63B69/00 (Core/Non-invention)
International (IPC 1-7): A61F5/08 A61H1/02 A63B21/04
CPC: A61H1/0218 A61H1/0229 A61H2201/1607 A63B21/068 A63B21/1645 A63B23/12 A63B23/14 A63B24/0003 A63B2225/12
European: A61H1/02D A61H1/02D12 A63B24/00A K61H1/02D12 K61H201/16A2A K63B21/068 K63B21/16D6 K63B225/12 K63B23/12 K63B23/14



Family:

Publication number	Publication date	Application number	Application date
CH221738 A	19420615		19410913
DE731790 A	19430215	DE1941L103013	19410119
DE737405 A	19430713	DE1941L105250	19410830

Priority:

DE1941L103013 19410119 DE1941L105250 19410830

Probable Assignee: LINTHOUT HANS E

Assignee(s): (std): HANS E LINTHOUT ; LINTHOUT HANS E

Inventor(s): (std): LINTHOUT HANS E ; HANS E LINTHOUT

Inventor(s): E LINTHOUT HANS

Title: GOLF BALL COLLECTOR

Abstract: Source: US2484437A 1. A golf ball collector comprising a **frame**, a shaft journaled in said **frame**, traction **wheels** secured on opposite ends of said shaft, a plurality of LI-shaped spring fingers secured in said shaft in spaced relationship, on opposite sides of said shaft, the fingers on one side of said shaft being staggered relative to the fingers on the opposite side of said shaft, the spacing of said fingers being less than the diameter of a golf ball, and a basket removably supported in said **frame** for receiving golf balls moved toward said basket by said spring fingers.

Classifications:

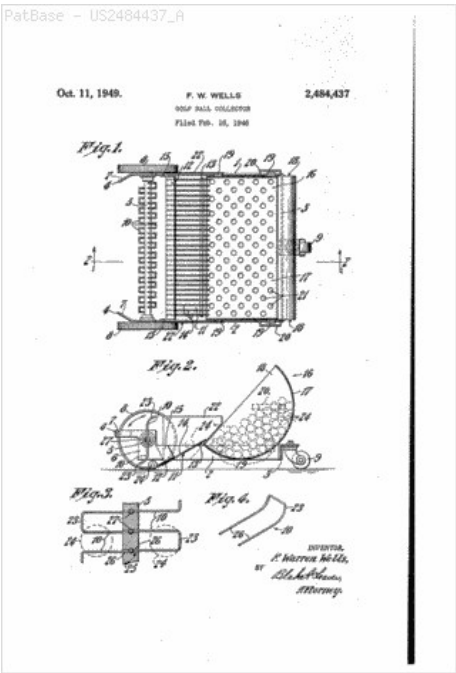
International (IPC 8-9): A63B47/02 (Advanced/Invention);
A63B47/00 (Core/Invention)

International (IPC 1-7): A63B47/02

CPC: A63B47/021

European: A63B47/02B

US: 171/63 294/19.2 414/440 56/328.1



Family:

Publication number	Publication date	Application number	Application date
US2484437 A	19491011	US19460648100	19460216

Priority:

US19460648100 19460216

Probable Assignee: BLAIR MFG CO

Assignee(s): (std): BLAIR MFG CO ; BLAIR MFG COMPANY

Assignee(s): BLAIR MANUFACTURING COMPANY

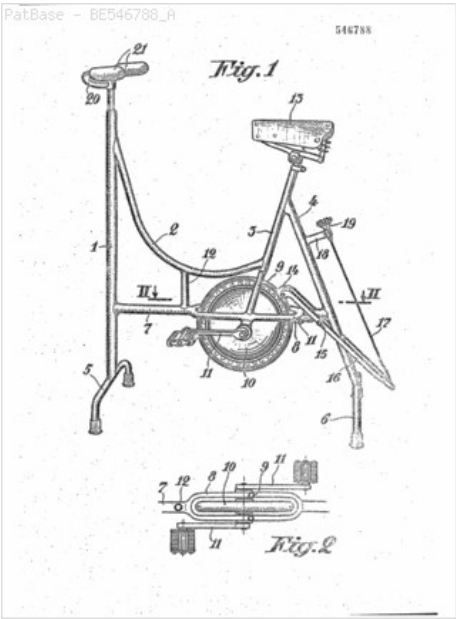
Inventor(s): (std): WARREN WELLS F

Inventor(s): WELLS F WARREN

Abstract: Source: BE546788A (Claim 1) 1.-!roestel voor wet het kenmerk dat in een rechtstaand Kader, in den aard van een een onder regelbare re1Ting staande wiel et c;ppf-hari4eri is tussen da cr n van Minstens twee vorkdelen die in h8t kader voorzien zijn tussen voor- en achterstang en onderaan een zadelstang, waarbij deze vorken 0L4 het.ruiddenplf,In vun:iet.nader liggen.

Machine translation: (Claim 1) 1. -! Roestel law for the characteristic that in a standing **frame**, in the nature of an under-standing **wheel** adjustable re1Ting et c; PPF hari4eri between da cr n of at least two fork parts in h8t framework provided between front and rear rod and underneath a seat post, said forks het.ruiddenplf 0L4, In vun: iet.nader lie.

Classifications:
International (IPC 8-9): A63B22/08 (Advanced/Invention);
A63B22/06 (Core/Invention)
International (IPC 1-7): A63B69/16
CPC: A63B22/0605
European: A63B22/08



Family:

Publication number	Publication date	Application number	Application date
BE546788 A	19591023		00000000

Priority:
19560406

Title: Improvements relating to golf bags

Abstract: Source: GB864624A 864,624. Golf-bags. PRICE and SON (DUDLEY) Ltd., E. J. Dec. 23, 1959 [Jan. 7, 1959; Feb. 24, 1959], Nos. 604/59 and 6288/59. Class: 132(2). A golf-bag is formed with compartments for individual clubs by providing rows of spaced-apart tubular containers 12, the containers in adjacent rows being staggered so as to provide additional compartments 13 bounded by the exterior of the containers and, in some cases, also by the interior wall of the bag. The containers are mostly rectangular in cross-section but 'those at the ends of the outer rows are shaped to fit the bag interior which they reinforce. The upper and lower ends of the containers are mounted in locating grids.

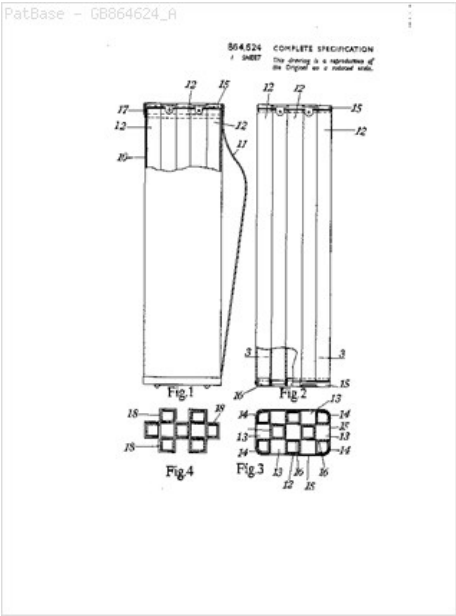
Classifications:

International (IPC 8-9): A63B55/00 F04D29/42 (Advanced/Invention);
A63B55/00 F04D29/42 (Core/Invention)

International (IPC 1-7): A63B55/00

CPC: A63B55/00 F04D29/42

European: A63B55/00 F04D29/42



Family:

Publication number	Publication date	Application number	Application date
GB864624 A	19610406	GB19590000604	19590107

Priority:

GB19590000604 19590107

Probable Assignee: E J PRICE AND SON DUDLEY LTD

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