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Search [SP]: [0007] features of the subject technology are set forth in the appended claims. however, for purpose of explanation, several implementations of the subject technology are set forth in the following figures.[0008] figs. 1a-1b illustrate schematic drawings of the exterior and interior sides, respectively, of one building block module of an improved multi-functional air heater and natural ventilating device, when the device is being used as a ventilator and cooling system, according to an implementation.[0009] figs. 2a-2b illustrate schematic drawings of the exterior and interior sides, respectively, of one building block module of an improved multi-functional air heater and natural ventilating device, when the device is being used as a heater with a plant housing facing outside, according to an implementation.[0010] figs. 3a-3b illustrate schematic drawings of the exterior and interior sides, respectively, of one building block module of an improved multi-functional air heater and natural ventilating device, when the device is being used as a heater with a plant housing facing the interior, according to an implementation. [0011] figs. 4a-4c illustrate schematic drawings of a top view of a portion of one building block module of an improved multi-functional air heater

and natural ventilating device, during the three different configurations of the building block module, according to an implementation.[0012] figs. 5a-5d illustrate schematic drawings of various vantage point views of the exterior side (figs. 5a-5c) and the interior side (fig. 5d) of an improved multi-functional air heater and natural ventilating device, when the building block modules are open, according to an implementation.[0013] figs. 6a-6d illustrate schematic drawings of various vantage point views of the exterior side (figs. 6a-6c) and the interior side (fig. 6d) of an improved multi-functional air heater and natural ventilating device, when the building block modules are closed and a plurality of plants face the outdoor, according to an implementation.[0014] figs. 7a-7d illustrate schematic drawings of various vantage point views of the exterior side (figs. 7a-7c) and the interior side (fig. 7d) of an improved multi-functional air heater and natural ventilating device, when the building block modules are closed and a plurality of plants face the interior, according to an implementation.[0015] figs. 8a-8c illustrate schematic drawings of a top view of an improved multi-functional air heater and natural ventilating device, during three different configurations of the building block modules, according to an implementation.[0016] fig. 9a-9d illustrate side views of a portion of the improved multi-functional air heater and natural ventilator device, for four different configurations of the building block modules, according to an implementation.[0017] fig. 10 illustrates a schematic drawing of a wind turbine system incorporated into the improved multi-functional air heater and natural ventilator unit according to an implementation. [inventors: please rename fig. 9e, fig. 10 and rename figs. 10a-10d, to 11a-11d.[0018] fig. 11a-11d illustrate side views of a portion of the building block module of the improved multi-functional air heater and natural ventilator unit, for four different configurations of the building block modules, according to an implementation. (Results 1)

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Search [SP]: fig. 1 is a plan view of a blank for forming an exemplary carton according to one embodiment of the disclosure. fig. 2 is a plan view of the blank of fig. 1 overlaying a liner. fig. 3 is a plan view of the blank and liner of fig. 2 showing the interior side of the blank. fig. 3a is a cross-sectional schematic view of the blank and liner taken at line 3a-3a of fig. 3. fig. 3b is a cross-sectional schematic view of the blank and liner showing an alternate fold of the liner according to one embodiment of the disclosure. fig. 4 is view of the partially-assembled package according to one embodiment of the disclosure. fig. 5 is a perspective view of an open-ended sleeve formed from the blank with the liner attached to the interior surface of the sleeve according to one embodiment of the disclosure. figs. 6a-6c are perspective views showing the closing of the ends of the sleeve of fig. 5. fig. 7 is a perspective view of the closed carton according to one embodiment of the disclosure. figs. 8a and 8b are perspective views of the carton of fig. 7 illustrating the removal of a tear strip according to one embodiment of the disclosure. figs. 9 and 10 are perspective views of the carton in an expanded position according to one embodiment of the disclosure. (Results 478)

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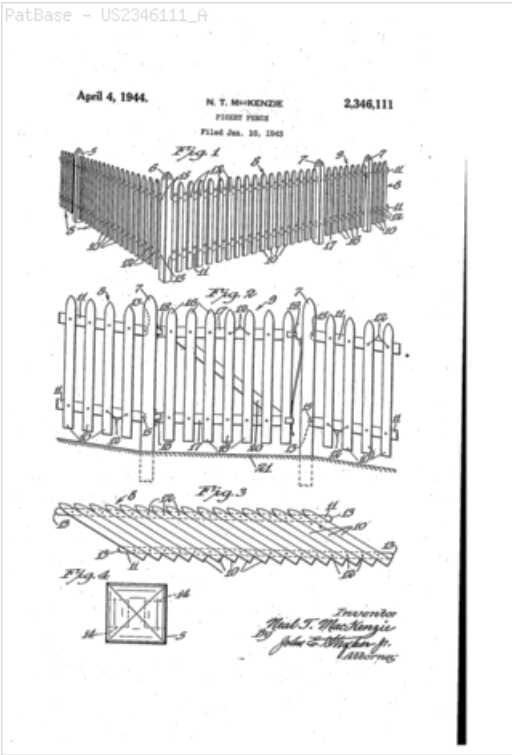
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(Results 39)

1) Family number: 25811481 (US2346111 A)

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Classifications:
International (IPC 1-7): E04H17/14
US: 160/161 256/67



Family:

Publication number	Publication date	Application number	Application date
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2) Family number: 27600992 (US216035A)

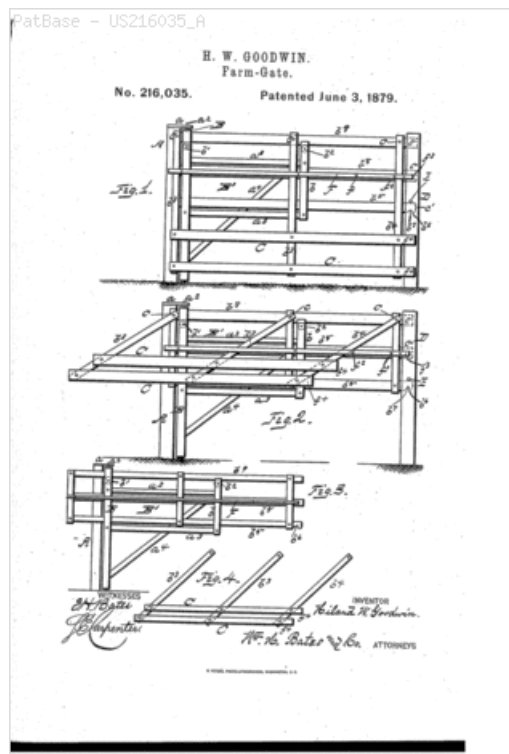
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Title: IMPROVEMENT IN FARM-GATES

Classifications:

CPC: E06B9/0661

US: 160/136 160/97



Family:

Publication number	Publication date	Application number	Application date
US216035 A	18790603		00000000

Inventor(s): HILAND W GOODWIN

3) Family number: 27473260 (US275557 A)

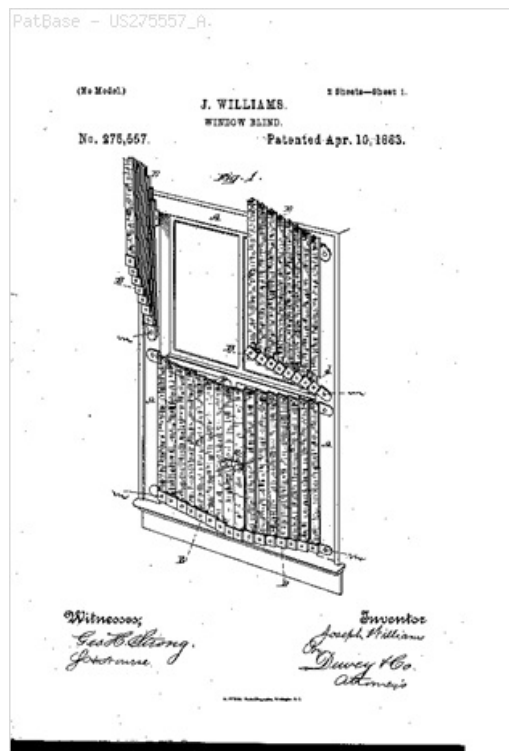
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Classifications:

CPC: E06B9/0638

European: E06B9/06D1F

US: 160/136 160/161 160/196.1 160/229.1 49/73.1



Family:

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Priority:

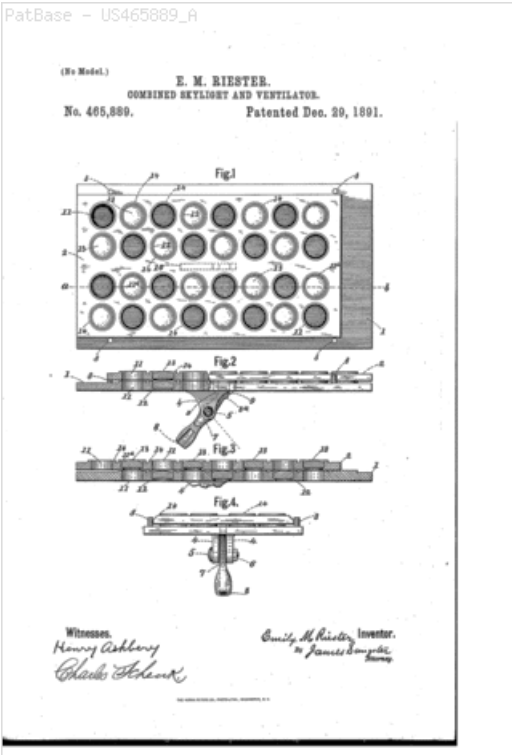
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4) Family number: 27395065 (US465889A)

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Title: COMBINED SKYLIGHT AND VENTILATOR

Classifications:
CPC: E06B7/10
US: 454/199 49/38



Family:

Publication number	Publication date	Application number	Application date
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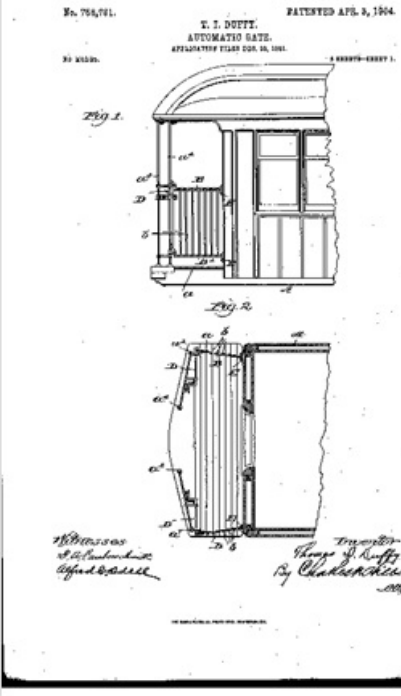
Inventor(s): COMBINED SKYLIGHT

5) Family number: 27101339 (US756781A)

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Title: AUTOMATIC GATE.

Classifications:
International (IPC 1-7): B61D23/02
CPC: B61L29/20
US: 160/139 160/161



Family:

Publication number	Publication date	Application number	Application date
■ US756781 A	19040405	US19010087655	19011230

Priority:

US19010087655 19011230

Probable Assignee:	DUFFY THOMAS I
Assignee(s): (std):	DUFFY THOMAS I
Assignee(s):	THOMAS I DUFFY
Inventor(s): (std):	DUFFY THOMAS I
Inventor(s):	THOMAS I DUFFY

6) Family number: 24775569 (US1122441A)

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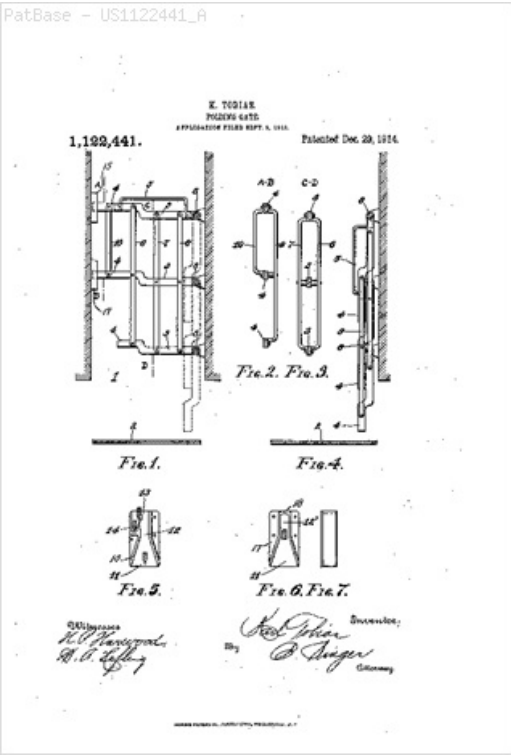
Title: FOLDING GATE.

Classifications:

International (IPC 1-7): B61D17/22 E06B9/06

CPC: E06B9/0661

US: 160/136 160/161



Family:

Publication number	Publication date	Application number	Application date
US1122441 A	19141229	US19130788877	19130909

Priority:

US19130788877 19130909

Probable Assignee: BUDAPESTI VILLAMOS VAROSI VASUT RESZVENYTARSASAG ELECTRICAL MUNICIPAL RAILWAY CO LTD IN BUDAPEST

Assignee(s): (std): BUDAPESTI VILLAMOS VAROSI VASUT RESZVENYTARSASAG ELECTRICAL MUNICIPAL RAILWAY CO LTD IN BUDAPEST ; BUDAPESTI VILLAMOS VAROSI VASUT RESZVENYTARSASAG ELECTRICAL MUNICIPAL RAILWAY COMPANY LTD IN BUDAPEST

Assignee(s): BUDAPESTI VILLAMOS VAROSI VASUT RESZVENYTARSASAG ELECTRICAL MUNICIPAL RAILWAY COMPANY LTD IN BUDAPEST ; BUDAPESTI VILLAMOS VAROSI VASUT RESZVENYTARSASAG ELECTRICAL MUNICIPAL RAILWAY CO LTD IN BUDAPEST

Inventor(s): (std): TOBIAS KARL

Inventor(s): KARL TOBIAS

7) Family number: 18591663 (US1492315A)

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Title: CAR COVER

Classifications:

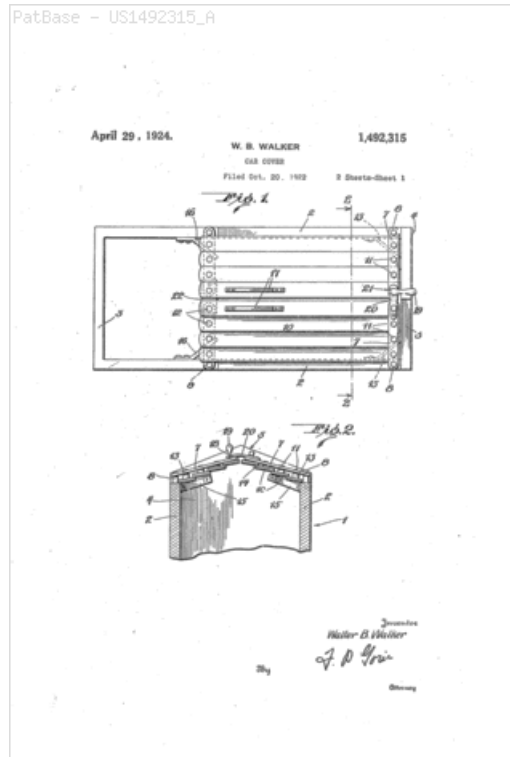
International (IPC 8-9): B61D39/00 (Advanced/Invention); B61D39/00 (Core/Invention)

International (IPC 1-7): B61D39/00

CPC: B61D39/002

European: B61D39/00C

US: 105/377.09 160/136

**Family:**

Publication number	Publication date	Application number	Application date
US1492315 A	19240429	US19220595846	19221020

Priority:

US19220595846 19221020

Probable Assignee:

MARS FORTIN

Assignee(s): (std):

MARS FORTIN

Inventor(s): (std):

WALKER WALTER B

8) Family number: 21440721 (US2322590A)

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Title: WINDOW VENTILATOR

Abstract: 1. What is claimed is: A window ventilator comprising a frame adapted to be positioned between a window sash and its sill, spaced stationary members within frame, said spaced stationary members having aligned openings, a movable member having openings, disposed within the space between the stationary members, the openings of the movable member adapted to align with the openings of the stationary members admitting air through the ventilator, wide downwardly inclined flanges extending forwardly from the frame and providing a hood, wide horizontally disposed shutter members pivotally mounted within the hood and disposed in spaced relation with the openings of the stationary members, said shutters being disposed in direct alignment with the openings of the ventilator, said shutters adapted to be adjusted to obstruct the passage of air through the aligning openings, and means for operating the shutters simultaneously

Classifications:

International (IPC 8-9): E06B7/10 (Advanced/Invention);
E06B7/02 (Core/Invention)

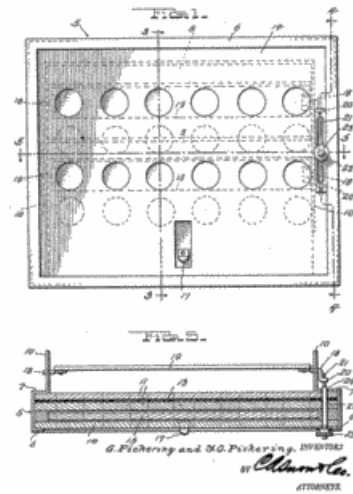
International (IPC 1-7): F24F13/18

CPC: E06B7/10

European: E06B7/10

US: 454/215 49/38

June 22, 1943. G. PICKERING ET AL. 2,322,590
 WINDOW VENTILATOR
 Filed March 20, 1942 2 Sheets-Sheet 1

**Family:**

Publication number	Publication date	Application number	Application date
US2322590 A	19430622	US19410384394	19410320

Priority:

US19410384394 19410320

Probable Assignee: GLENROY PICKERING

Assignee(s): (std): GLENROY PICKERING ; PICKERING FRANK O

Inventor(s): (std): GLENROY PICKERING ; PICKERING FRANK O

Inventor(s): PICKERING GLENROY

9) Family number: 21947301 (US2522158A)

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Title: POSTER PANEL

Abstract: (Claim 1) 1. A. poster panel comprising a stationary border; a plurality of braces carried by the border and extending within the confines of the border, a display panel, and a plurality of pivots connected to the braces within the confines of the border to be swung in a plane parallel to the plane of the display panel, and pivoted to the display panel for supporting the display panel immediately in front of the border in display position and for swinging the display panel in its own plane from the display position to a servicing position below the display position.

Classifications:

International (IPC 8-9): G09F15/00 (Advanced/Invention);

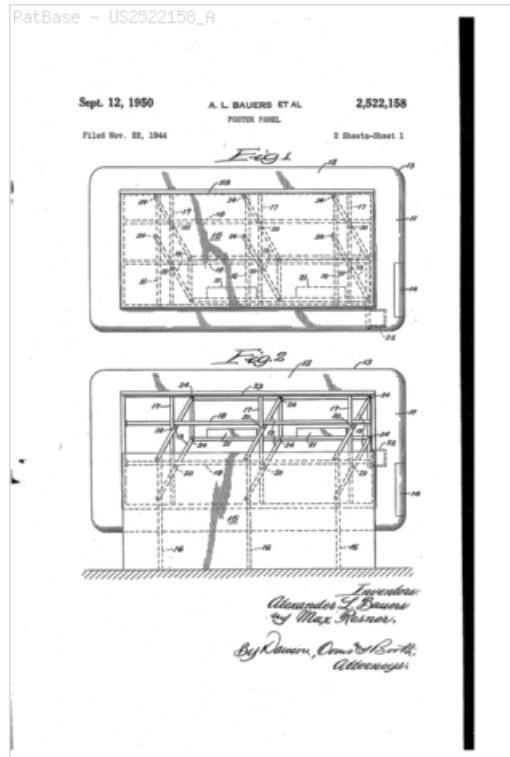
G09F15/00 (Core/Invention)

International (IPC 1-7): G09F15/00

CPC: G09F15/0087

European: G09F15/00E

US: 160/136 40/601

**Family:**

Publication number	Publication date	Application number	Application date
■ US2522158 A	19500912	US19440564651	19441122

Priority:

US19440564651 19441122

Probable Assignee: GEN OUTDOOR ADVERTISING CO INC**Assignee(s):** (std): GEN OUTDOOR ADVERTISING CO INC**Assignee(s):** GENERAL OUTDOOR ADVERTISING CO ; GENERAL OUTDOOR ADVERTISING CO INC**Inventor(s):** (std): BAUERS ALEXANDER L ; MAX ROSNER**Inventor(s):** ROSNER MAX**10) Family number: 22828579** (US2955651A)

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Title: TEMPORARY WINDOW CLOSURE

Abstract: (Claim 1) 1. A temporary window closure for insertion in and support by a structure defining a rectangular opening, said closure comprising a first pair of right triangular panels arranged in a first common plane with their hypotenuse sides opposing each other, a second pair of right triangular panels arranged in a second common plane with their hypotenuse sides opposing each other, said planes being parallel to each other, the acute angle apex portions of each panel in one plane severally overlapping the adjacent acute angle apex portions of both panels in the other plane, the outer sides of each panel in one plane severally being in alignment with the companion outer sides of both panels in the other plane, whereby all of said outer sides jointly provide a continuous rectangular perimeter for the panel assembly, and expansible means carried individually by each panel and extending along said outer sides thereof, said expansible means collectively being adapted to hold the panel assembly in position within said structure and to provide a substantially weather-tight seal therebetween.

Classifications:

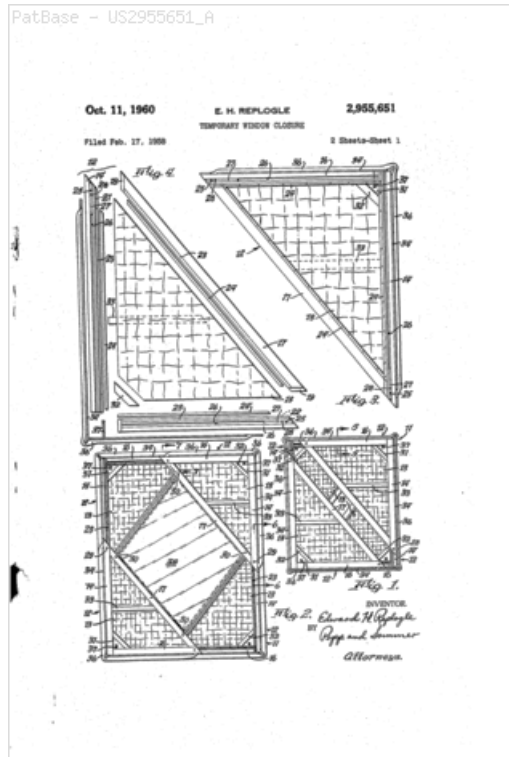
International (IPC 8-9): E06B3/92 (Advanced/Invention);
E06B3/00 (Core/Invention)

International (IPC 1-7): E06B5/10

CPC: Y10S160/08 E06B3/92

European: E06B3/92

US: 160/221 160/223 160/374 160/40 160/DIG.8 49/484.1

**Family:**

Publication number	Publication date	Application number	Application date
US2955651 A	19601011	US19580715563	19580217

Priority:

US19580715563 19580217

Probable Assignee:

REPLOGLE EDWARD H

Assignee(s): (std):

REPLOGLE EDWARD H

Inventor(s): (std):

REPLOGLE EDWARD H

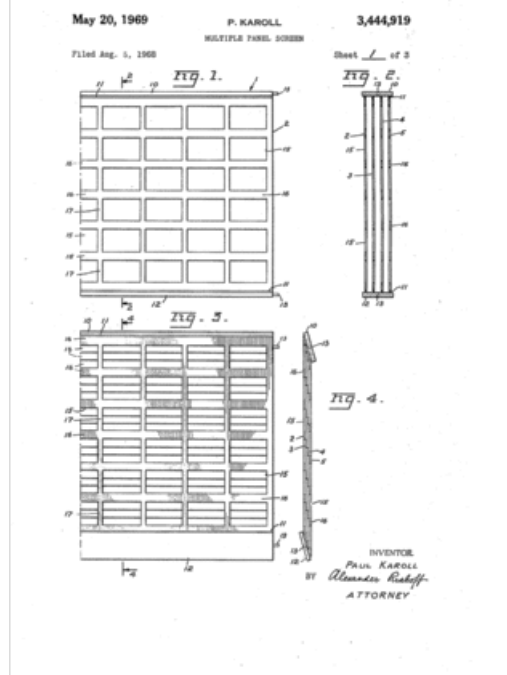
11) Family number: 866788 (US3444919A)

© PatBase

Title: MULTIPLE PANEL SCREEN**Abstract:** ABSTRACT OF THE DISCLOSURE

A multiple panel screen for regulating the visibility and the amount of light and air to be admitted through the same by passing air and light through a plurality of apertures arranged in opaque panels in vertical columns, separated by horizontal strips, and by staggering said panels vertically and bringing them closer in relation to each other for closing said apertures by said strips to a desired degree. Objects of invention

Classifications:**International (IPC 8-9):** E06B9/24 E06B9/26 (Advanced/Invention)**International (IPC 1-7):** E05D15/00 E06B9/00 E06B9/24**CPC:** E06B9/24 E06B9/26 E06B2009/2405**European:** E06B9/24 E06B9/26 P06B9/24B**US:** 160/184 160/219 160/222 160/237 359/596 359/614

**Family:**

Publication number	Publication date	Application number	Application date
US3444919 A	19690520	US19680750069	19680805

Priority:

US19680750069 19680805

Probable Assignee:

KAROLL PAUL

Assignee(s): (std):

KAROLL PAUL

Assignee(s):

PAUL KAROLL

Inventor(s): (std):

KAROLL PAUL

Inventor(s):

PAUL KAROLL

12) Family number: 1390789 (US4020889A)

© PatBase

Title: Apparatus for manipulating a multiple panel screen

Abstract: An apparatus for manipulating a multiple panel screen is disclosed in my U.S. Pat. No. 3,444,919, issued May 20, 1969. The patent shows a plurality of identical panels for regulating the visibility and the amount of light and air to be admitted. Each panel has a plurality of vertical columns of apertures separated by spaced apart horizontal strips. The panels are hung from a roller-shaped head piece and they are spaced apart from each other. When the screen is in normal position the apertures in successive panels are in alignment to permit the greatest amount of visibility and light. Novel means is used for rocking the head piece about its axis for vertically shifting the panels and their apertures with respect to each other for altering the visibility and light controlled by the screen. Additional novel means is used for rotating the head piece for rolling up the panels thereon for raising the screen or for unrolling the panels when lowering the screen.

Classifications:

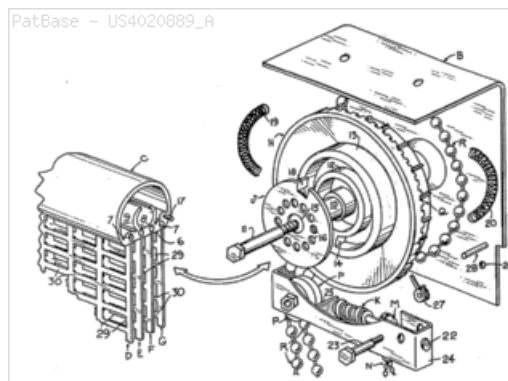
International (IPC 8-9): E06B9/24 E06B9/68
E06B9/78 (Advanced/Invention)

International (IPC 1-7): E06B9/10

CPC: E06B9/24 E06B9/68 E06B9/78 E06B2009/2405

European: E06B9/24 E06B9/68 E06B9/78 P06B9/24B

US: 160/120

**Family:**

Publication number	Publication date	Application number	Application date
US4020889 A	19770503	US19760710373	19760802

Priority:

US19760710373 19760802

Probable Assignee:

KAROLL PAUL

Assignee(s): (std):

KAROLL PAUL

Inventor(s): (std):

KAROLL PAUL

13) Family number: 4270491 (US4026313A)

© PatBase

Title: COLLAPSIBLE SELF-SUPPORTING STRUCTURES

Abstract: Self-supporting structures and panels of diverse shapes are disclosed in which basic assemblies of crossed rod elements are employed to achieve the desired shape. Further, the crossing points of crossed rod elements in the structure involved may include limited sliding connections which effect transfer of collapsing force to other crossing points which are pivotally joined. An improved hub structure for pivotally joining ends of the rod elements at the outer and inner apical points is also disclosed.

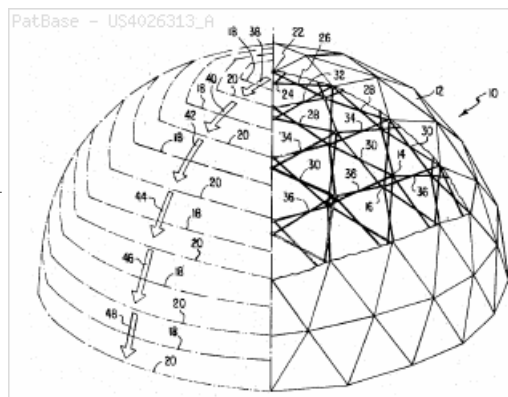
Classifications:**International (IPC 8-9):** E04B1/32 E04B1/343

E04B1/344 (Advanced/Invention);

E04B1/32 E04B1/343 E04B1/344 (Core/Invention)

International (IPC 1-7): E04B1/12 E04B1/32 E04B1/347 E04B1/58 E04H12/18**CPC:** E04B1/32 E04B1/3211 E04B1/34326 E04B1/3441 E04B2001/3241

E04B2001/3247 E04B2001/3252 E04B2001/3294 Y10S135/909

European: E04B1/32 E04B1/32C E04B1/343C2 E04B1/344B P04B1/32M1 P04B1/32M1B P04B1/32M2 P04B1/32S**US:** 135/143 135/4R 135/909 52/109 52/80 52/81.3 52/86**Family:**

Publication number	Publication date	Application number	Application date
US4026313 A	19770531	US19760704811	19760713
US4290244 A	19810922	US19790045246	19790604
US4437275 A	19840320	US19810291067	19810807

Priority:

US19760704811 19760713

US19770763701 19770128

US19780919131 19780626

US19790045246 19790604

US19810291067 19810807

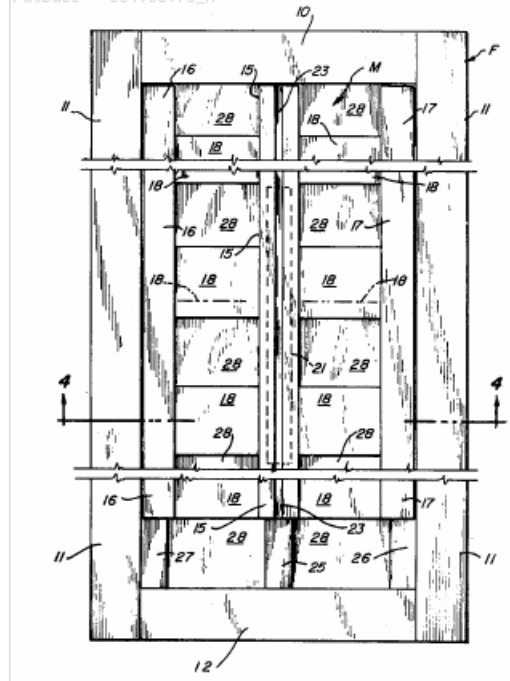
Probable Assignee: NOMADIC STRUCTURES INC**Assignee(s):** (std): NOMADIC STRUCTURES INC ; ZEIGLER THEODORE R ; ZEIGLER THEODORE RICHARD**Assignee(s):** WORLD SHELTERS INC**Inventor(s):** (std): ZEIGLER THEODORE R**14) Family number: 1412505** (US4033073A)

© PatBase

Title: Shutter, grille or the like

Abstract: A movable member of a grille or shutter is slidable with respect to a stationary member through tongue and groove or other slidable connections, between a fully open and a fully closed position. Both the movable member and the stationary member are provided with corresponding cross bars which are spaced both vertically and equally. Facing upright rails, such as at the center, of the movable member and fixed member are provided with opposed grooves, each for reception of a vertically placed bar magnet. The magnets are placed with their opposite poles facing each other, so that the magnets will attract, rather than repel. Preferably, the closed position of the movable member is the upper position, and the magnets are directly opposite each other in this position.

Classifications:**International (IPC 8-9):** E06B7/082 E06B9/264 (Advanced/Invention)**International (IPC 1-7):** E06B7/02**CPC:** E06B7/082 E06B9/264 E06B2009/2646**European:** E06B7/082 E06B9/264 P06B9/264B2**US:** 160/197 160/222 49/38

**Family:**

Publication number	Publication date	Application number	Application date
US4033073 A	19770705	US19760647660	19760109

Priority:

US19760647660 19760109

Probable Assignee:

BOGAN ROBERT T

Assignee(s): (std):

BOGAN ROBERT T

Inventor(s): (std):

BOGAN ROBERT T

15) Family number: 3807437 (US4942700A)

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Title: Reversibly expandable doubly-curved truss structure

Abstract: A loop-assembly is disclosed which is comprised of at least three scissors-pairs, at least two of the pairs comprising: two essentially identical rigid angulated strut elements each having a central and two terminal pivot points with centers which do not lie in a straight line, each strut being pivotally joined to the other of its pair by their central pivot points, each pair being pivotally joined by two terminal pivot points to two terminal pivot points of another pair in that, (a) the terminal pivot points of each of the scissors-pairs are pivotally joined to the terminal pivot points of the adjacent pair such that both scissors-pairs lie essentially in the same plane, or (b) the terminal pivot points of a scissors-pair are each pivotally joined to a hub element which is small in diameter relative to the length of a strut element, and these hub elements are in turn joined to the terminal pivot points of another scissors-pair, such that the plane that one scissors-pair lies in forms an angle with the plane that the other scissors-pair lies in, the axes passing through the pivot points of one of the scissors-pair not being parallel to the axes of the other scissors-pair, where a closed loop-assembly is thus formed of scissors-pairs, and this loop-assembly can freely fold and unfold without bending or distortion of any of its elements, and a line that intersects and is perpendicular to the axes of any two terminal pivot points is non-parallel with at least two other similarly formed lines in the assembly, the angles formed between said lines remaining constant as the loop-assembly is folded and unfolded.

Classifications:**International (IPC 8-9):** E04B1/32 E04B1/344

E04B7/16 (Advanced/Invention);

E04B7/16 (Core/Invention)

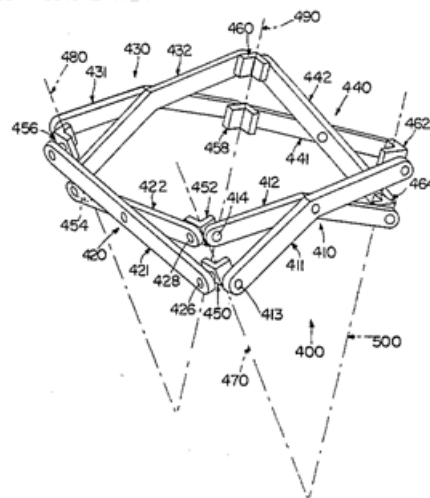
International (IPC 1-7): E04B1/00 E04B1/32 E04B1/52 E04B7/16**CPC:** E04B1/3211 E04B1/3441 E04B2001/3241 E04B2001/3252

E04B2001/3294

European: E04B1/32C E04B1/344B P04B1/32M1 P04B1/32M2

P04B1/32S

US: 52/109 52/646 52/81.2

**Family:**

Publication number	Publication date	Application number	Application date
CA2016428 AA	19911006	CA19902016428	19900509
CA2016428 C	19990831	CA19902016428	19900509
US4942700 A	19900724	US19880263582	19881027
US5024031 A	19910618	US19900505804	19900406

Priority:

US19880263582 19881027 US19900505804 19900406 CA19902016428 19900509

Probable Assignee: NOKIA (DEUTSCHLAND) GMBH

Assignee(s): (std): HOBERTMAN CHARLES

Assignee(s): NOKIA (DEUTSCHLAND) GMBH ; NOKIA GMBH

Inventor(s): (std): HOBERTMAN CHARLES

Agent(s): SMITH PAUL RAYMOND

16) Family number: 29119919 (US4981732A)

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Title: REVERSIBLY EXPANDABLE STRUCTURES

Abstract: Self-supporting structures of diverse shapes are disclosed that may be collapsed down to a compact bundle. In them, units are employed that are comprised of a central tapered strip bordered by two elongated strips. The tapered strip is pleated along a series of lines that cross it widthwise and each elongated strip is pleated along a series of lines that cross it widthwise. The central tapered strip is joined to each of the two elongated strips by a series of pleat lines that are connected end-to-end. When the unit is folded, each of the two elongated strips fold into a stack, and the central tapered strip folds in a zig-zag fashion, such that the planes of the tapered strip lie essentially orthogonal to the planes of the stacked elongated strips. The two stacked elongated strips fold towards each other, such that the stacks lie in line with one another.

Classifications:

International (IPC 8-9): A63H33/16 E04H15/02

E04H15/48 (Advanced/Invention);

A63H33/00 E04H15/34 (Core/Invention)

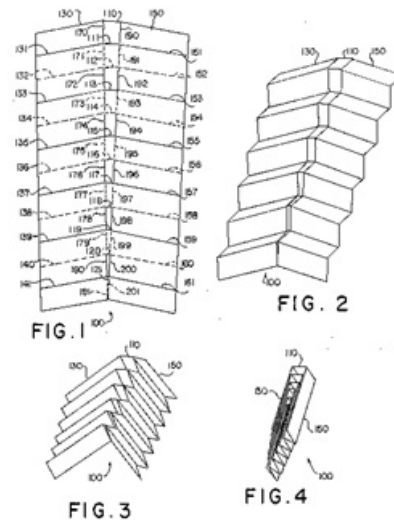
International (IPC 1-7): A63H33/16 E04B1/32 E04B1/344 E04H15/02

E04H15/32 E04H15/48 F16S1/00

CPC: Y10T428/24686 A63H33/16

European: A63H33/16

US: 428/12 428/181 428/542.2 428/542.8 446/488

**Family:**

Publication number	Publication date	Application number	Application date
CA2035641 AA	19910821	CA19912035641	19910204
CA2035641 C	20010807	CA19912035641	19910204
DE69101113 D1	19940317	DE19916001113	19910212
EP0443408 A1	19910828	EP19910101917	19910212
EP0443408 B1	19940202	EP19910101917	19910212
JP3017317 B2	20000306	JP19910109912	19910220
JP5106370 A2	19930427	JP19910109912	19910220
US4981732 A	19910101	US19900482369	19900220

Priority:

US19900482369 19900220 CA19912035641 19910204

Probable Assignee: HOBERMAN CHARLES NEW YORK NY

Assignee(s): (std): CHIYAARUZU HOBAAMAN ; HOBERMAN CHARLES

Assignee(s): HOBERMAN CHARLES NEW YORK N Y US ; HOBERMAN CHARLES NEW YORK NY

Inventor(s): (std): CHIYAARUZU HOBAAMAN ; HOBERMAN CHARLES

Inventor(s): HOBERMAN CHARLES NEW YORK N Y ; HOBERMAN CHARLES NEW YORK N Y US ; HOBERMAN CHARLES NEW YORK NY

Agent(s): SMITH PAUL RAYMOND

Designated states: DE ES FR GB IT

17) Family number: 4592771 (US5016390A)

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Title: Shutter assembly

Abstract: A shutter closure assembly for covering an opening in a building or the like comprises a stationary panel having a front face defined by a plurality of alternate vertical rails and slots, and a back face defined by a plurality of alternate horizontally extending rails and slots forming a substantially uniform array of openings throughout a major area thereof, and a moveable panel having a front face defined by a complementary plurality of horizontal rails formed by a plurality of horizontal slots, and a back face defined by a plurality of vertical rails formed by a plurality of vertical slots forming a corresponding array of openings and moveable relative to the stationary panel for alternately covering and uncovering the openings in the stationary panel.

Classifications:

International (IPC 8-9): E06B7/06 E06B7/082 E06B9/13 E06B9/15

F24F13/12 (Advanced/Invention);

E06B9/17 (Advanced/Non-invention)

International (IPC 1-7): E06B7/02

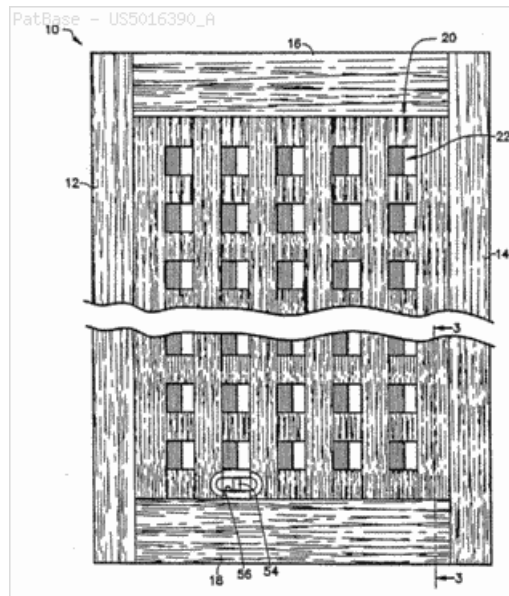
CPC: E06B7/06 E06B7/082 E06B9/13 E06B9/15 E06B2009/1538

F24F13/12

European: E06B7/06 E06B7/082 E06B9/13 E06B9/15 F24F13/12

P06B9/15B2

US: 160/222 49/354 49/38



Family:

Publication number	Publication date	Application number	Application date
US5016390 A	19910521	US19890432208	19891106
US5155936 A	19921020	US19910703244	19910520

Priority:

US19890432208 19891106 US19910703244 19910520

Probable Assignee: JOHNSON DANIEL B

Assignee(s): (std): JOHNSON DANIEL B

Inventor(s): (std): JOHNSON DANIEL B

18) Family number: 11406591 (US5274980A)

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Title: POLYHEDRON BUILDING SYSTEM HAVING TELESCOPING SCISSORS

Abstract: A collapsible framework capable of being manipulated between a collapsed condition and an expanded, locked condition includes a plurality of legs and a plurality of collapsible quad sections. The legs are disposed generally in parallel with one another and in a bundle when the framework is in the collapsed condition. Each quad section includes two split step scissor units and two step scissor units. Each split step scissor unit is joined at one end to a respective leg, and including two arms that are pivotally joined, at least one of the arms being telescopic and including means for locking the arm at a predetermined length. Each step scissor unit is joined at one end to the other end of a respective split step scissor and at its other end to the other step scissor unit, and each step scissor unit includes two arms that are pivotally joined, at least one of the arms being telescopic and including means for locking the arm at a second predetermined length. The framework may further include a flexible canopy supported by the legs and quad sections, or may further include a plurality of tension cables joining ends of the legs and scissor units. Other types of quad sections are also disclosed.

Classifications:

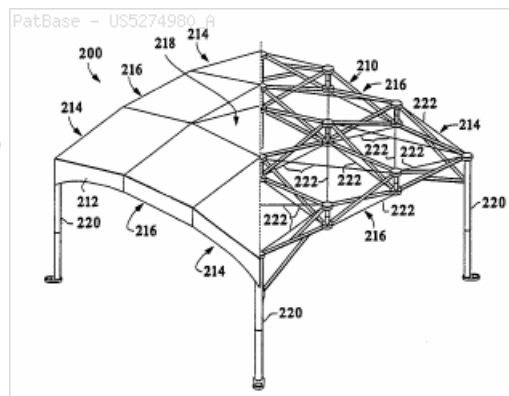
International (IPC 8-9): E04H15/50 (Advanced/Invention); E04H15/34 (Core/Invention)

International (IPC 1-7): E04H15/46 E04H15/50

CPC: Y10S135/908 E04H15/50

European: E04H15/50

US: 135/107 135/108 135/112 135/123 135/139 135/908 52/646 526/460



Family:

Publication number	Publication date	Application number	Application date
US5274980 A	19940104	US19910811978	19911223
WO9313284 A1	19930708	WO1992US10976	19921218

Priority:

US19910811978 19911223

Probable Assignee: WORLD SHELTERS INC

Assignee(s): (std): WORLD SHELTERS INC

Inventor(s): (std): ZEIGLER THEODORE R
Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP KR LU MC NL PT SE

19) Family number: 11251652 (US5234727A)

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Title: CURVED PLEATED SHEET STRUCTURES

Abstract: Self-supporting structures of diverse shapes are disclosed that may be collapsed down to compact bundles. Structures of this type are comprised of units which are comprised of two strips having non-parallel pleat lines. By pleating these strips according to a special pleat pattern, these structures may collapse down and expand out in a smooth manner.

Classifications:

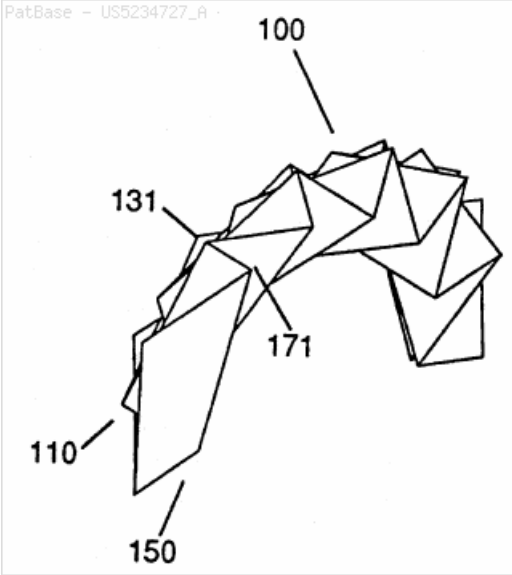
International (IPC 8-9): A63H33/16 (Advanced/Invention);
A63H33/00 (Core/Invention)

International (IPC 1-7): A63H33/16

CPC: A63H33/16 Y10T428/24686

European: A63H33/16

US: 428/12 428/181 428/542.2 446/488



Family:

Publication number	Publication date	Application number	Application date
US5234727 A	19930810	US19910732979	19910719

Priority:

US19910732979 19910719

Probable Assignee:

HOBBERMAN CHARLES

Assignee(s): (std):

HOBBERMAN CHARLES

Inventor(s): (std):

HOBBERMAN CHARLES

20) Family number: 10277086 (US5651228A)

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Title: Family of collapsible structures and a method of making a family of collapsible structures

Abstract: In a family of collapsible structures, each collapsible structure has a collapsible beam. For each collapsible structure of the family of collapsible structures, the collapsible beam includes a plurality of curved strut pairs of the same length as the curved strut pairs as in every other collapsible structure of the family of collapsible structures. The struts of each curved strut pair are pivotally connected to each other at points closer to the one end of the struts than the other end of the struts. Different collapsible structures of the family of collapsible structures have a different number of curved strut pairs than any other collapsible structure of the family of collapsible structures.

Classifications:

International (IPC 8-9): B64G99/00 E04B1/344 E04B7/02
E04C3/00 (Advanced/Invention);

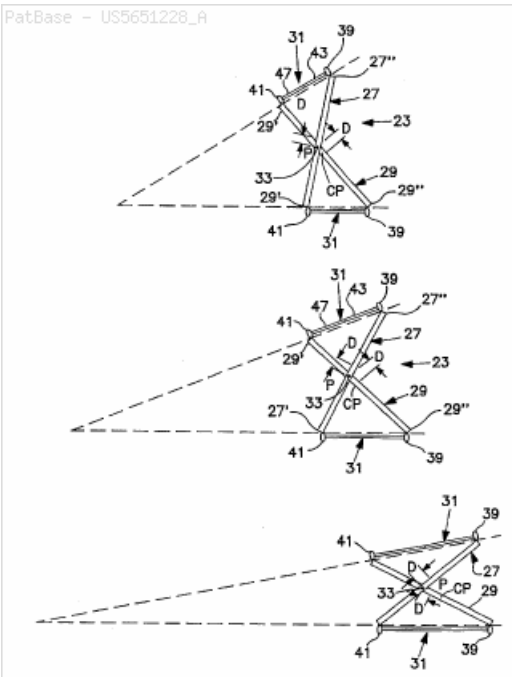
B64G99/00 E04B1/344 E04B7/02 E04C3/00 (Core/Invention)

International (IPC 1-7): E04H12/18

CPC: B64G9/00 E04B1/3441 E04B7/022 E04C3/005

European: B64G9/00 E04B1/344B E04B7/02A E04C3/00B

US: 135/108 52/118 52/645 52/646 52/648.1 52/81.1



Family:

Publication number	Publication date	Application number	Application date
US5651228 A	19970729	US19960600369	19960213
WO9730251 A1	19970821	WO1997US02993	19970213

Priority:

US19960600369 19960213

Probable Assignee: WORLD SHELTERS INC

Assignee(s): (std): WORLD SHELTERS INC

Inventor(s): (std): ZEIGLER THEODORE R

Designated states: AT BE CA CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE

21) Family number: 17775516 (US6190231B)

© PatBase

Title: Continuously rotating mechanisms

Abstract: This application is directed to a linkage system which provides continuous rotation to two or more interconnected quadrilaterals. The basic element of the linkage system is a multi-level link which provides firstly, a non-rotatable connection between two sub-links lying, in separate parallel planes and secondly, a rotatable connection for a further link lying in another parallel plane between the planes of the sub-links. By various interconnections between link elements, the quadrilaterals the linkage system will form various geometric patterns as the linkage is rotated. As the quadrilaterals lie in different planes, they may be continuously rotated with respect to each other. The linkage system may be used as a toy, a novelty item and as an educational tool.

Classifications:

International (IPC 8-9): A63F9/08 A63H33/00 A63H33/04 E04B1/344 F16S5/00 (Advanced/Invention);

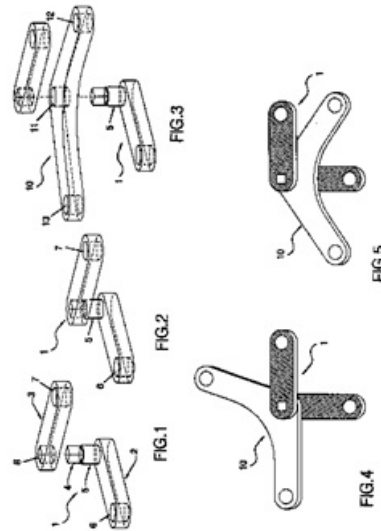
A63F9/06 A63H33/04 E04B1/344 F16S5/00 (Core/Invention)

International (IPC 1-7): A63F9/08 A63H A63H33/00 A63H33/04 A63H33/12 E04B1/344 F16S5/00

CPC: A63F9/0819 E04B1/3441

European: A63F9/08B4 E04B1/344B

US: 446/104 446/108 446/487

**Family:**

Publication number	Publication date	Application number	Application date
CA2291354 AA	20000604	CA19992291354	19991130
CN1260228 A	20000719	CN19991022840	19991130
CN2461630 Y	20011128	CN19992052623U	19991130
EP1005884 A2	20000607	EP19990309752	19991203
EP1005884 A3	20020904	EP19990309752	19991203
HK1021473 A2	20000526	HK19990105548	19991129
JP2000186798 A2	20000704	JP19990344640	19991203
US6190231 BA	20010220	US19990366831	19990804

Priority:

US19980111001P 19981204 US19990366831 19990804 CA19992291354 19991130

Probable Assignee: CHAIRS HOFFMANN

Assignee(s): (std): CHAIRS HOFFMANN ; CHARLES HOFFMANN ; HOBERMAN CHARLES

Inventor(s): (std): CHARIS HOFFMANN ; CHARLES HOBERMAN ; CHARLES HOFFMANN ; HOBERMAN CHARLES ; HOFFMANN CHARIS ; HOFFMANN CHARLES

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

22) Family number: 17929291 (US6082056A)

© PatBase

Title: Reversibly expandable structures having polygon links

Abstract: Reversibly expandable structures are formed from loop assemblies comprising interconnected pairs of polygonal shaped links. Each loop assembly has polygon links with at least three pivot joints and at least some of the polygon links have more than three pivot joints. Additionally, these links lie essentially on the surface of the structure or parallel to the plane of the surface of the structure. Each polygon link has a center pivot joint for connecting to another link to form a link pair. Each link also has at least one internal pivot joint and one perimeter pivot joint. The internal pivot joints are used for connecting link pairs to adjacent link pairs to form a loop assembly. Loop assemblies can be joined together and/or to other link pairs through the perimeter pivot joints to form structures. In one preferred embodiment of the present invention link pairs may be connected to adjacent link pairs in a loop assembly through hub elements that are connected at the respective internal pivot joints of the two link pairs. Similarly hubs elements can be used to connect loop assemblies together or loop assemblies to other link pairs through the perimeter pivot joints. In yet another embodiment of the present invention the pivot joints can be designed as living hinges.

Classifications:

International (IPC 8-9): A63F9/08 A63H33/04 A63H33/10 E04B1/32 E04B1/344 F16S5/00 (Advanced/Invention);

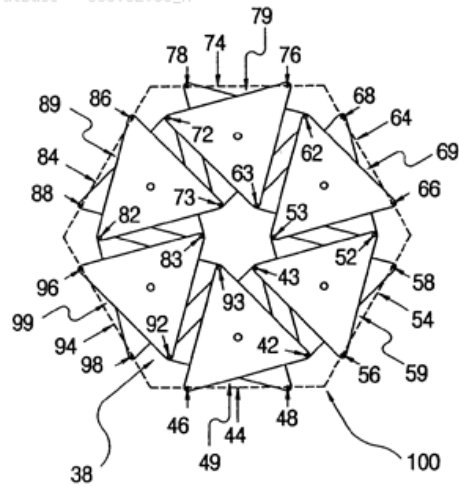
A63H33/04 E04B1/32 E04B1/344 F16S5/00 (Advanced/Non-invention)

International (IPC 1-7): A63F9/08 A63F9/08 A63H33/04 A63H33/04 A63H33/08 A63H33/12 E04B1/32 E04B1/344 E04B7/08 F16S5/00

CPC: Y10S52/10 E04B1/3211 A63F9/088 A63H33/10 E04B1/3441 E04B2001/3282 E04B2001/3294

European: A63F9/08G A63H33/10 E04B1/32C E04B1/344B P04B1/32P1B P04B1/32S

US: 446/478 446/487 52/109 52/646 52/80.1 52/81.1 52/81.5 52/DIG.1 52/DIG.10

**Family:**

Publication number	Publication date	Application number	Application date
AU199961781 A1	20010201	AU19990061781	19991130
AU199961781 A5	20010201	AU19990061781	19991130
AU209961781 A1	20010201	AU19990061781	19991130
CA2292161 AA	20010127	CA19992292161	19991215
CN1281742 A	20010131	CN19991024591	19991223
CN2427259 Y	20010425	CN19992056270U	19991223
EP1072295 A2	20010131	EP20000300029	20000106
EP1072295 A3	20021120	EP20000300029	20000106
HK1021472 A2	20000526	HK19990105547	19991129
JP2001050483 A2	20010223	JP19990351260	19991210
US6082056 A	20000704	US19980154482	19980916
US6219974 BA	20010424	US19990360957	19990727

Priority:

US19980154482 19980916 US19990360957 19990727 CA19992292161 19991215

Probable Assignee: CHARLES HOFFMAN

Assignee(s): (std): CHARLES HOBERMAN ; CHARLES HOFFMAN ; CHARLES HOFFMANN ; HOBERMAN CHARLES

Inventor(s): (std): CHARLES HOBERMAN ; CHARLES HOFFMAN ; CHARLES HOFFMANN ; HOBERMAN CHARLES ; HOFFMANN CHARLES ; HOFFMAN CHARLES

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

23) Family number: 61299244 (US6463705B)

© PatBase

Title: Container for prefabricated transportable buildings

Abstract: A container for a prefabricated building is disclosed. The container is formed from components of the prefabricated building. The container is built to substantially conform to standard shipping container sizes. Additional storage for some building components is preferably provided by attaching channel members to the top of the container. Supports and a covering for the additional storage space may be included. The additional storage space is preferably dimensioned to allow the container to substantially conform to standard shipping container sizes.

Classifications:

International (IPC 8-9): E04B1/343 E04H1/00

E04H4/16 (Advanced/Invention);

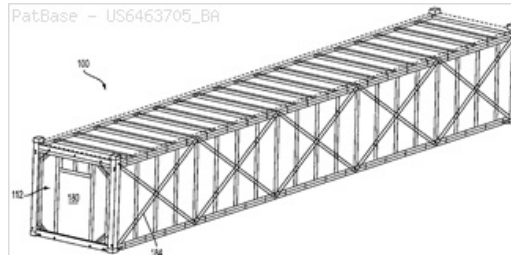
E04B1/343 E04H4/00 (Core/Invention)

International (IPC 1-7): E04B1/343 E04H1/00

CPC: E04B1/343

European: E04B1/343

US: 52/143 52/64 52/745.01 52/745.02 52/79.1 52/79.12 52/79.9

**Family:**

Publication number	Publication date	Application number	Application date
AU200017376 A1	20000613	AU20000017376	19991119
AU200017376 A5	20000613	AU20000017376	19991119
AU765835 B2	20031002	AU20000017376	19991119
BRPI9915522 A	20011016	BR1999PI15522	19991119
CA2351559 AA	20000602	CA19992351559	19991119

CN1134579 C	20040114	CN19998013500	19991119
CN1357073 A	20020703	CN19998013500	19991119
EP1141502 A1	20011010	EP19990960499	19991119
EP1141502 A4	20030129	EP19990960499	19991119
NZ511637 A	20030630	NZ19990511637	19991119
US6463705 BA	20021015	US19990442479	19991118
WO0031362 A1	20000602	WO1999US27437	19991119

Priority:

US19980109268P 19981120 US19990442479 19991118 WO1999US27437 19991119

Probable Assignee: CMH MFG WEST INC

Assignee(s): (std): OAKWOOD HOMES CORP

Assignee(s): OAKWOOD HOMES CORPORATION ; WARD RONALD D ; TUCKER GLENN D JR ; CMH MFG ; CMH MFG WEST INC ; DAVIS DON ; MISENHEIMER MITCH

Inventor(s): (std): DAVIS D ; DAVIS DON ; MISENHEIMER M ; MISENHEIMER MITCH ; TUCKER G D JR ; TUCKER GLENN D ; TUCKER GLENN D JR ; WARD RONALD D

Inventor(s): D DAVIS ; MITCH MISENHEIMER ; RONALD D WARD ; DON DAVIS ; G D JR TUCKER ; GD JR TUCKER ; GLENN D TUCKER JR ; M MISENHEIMER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

24) Family number: 28271250 (US2002195467A)

© PatBase

Title: DISPLAY MODULE FOR WATER COOLER

Abstract: A modular advertising or display insert, module or replacement lid to a water cooler provides a display panel or image for viewing by a person getting water at or passing by the water cooler. The display panel may be a back-lit photograph or transparency, a flat or curved screen monitor or the like. The monitor may be remotely controllable via a modem or other remote communication means for remote changing of the pictorial image on the monitor. The display module is constructed to mount to the water cooler housing and to fit in place to maintain the design lines of the existing water cooler. The display module may be placed on a water cooler retroactively, after the water cooler has been placed at a targeted or desirable location, or may be incorporated onto a water cooler prior to placing the water cooler at the targeted or desirable location.

Classifications:

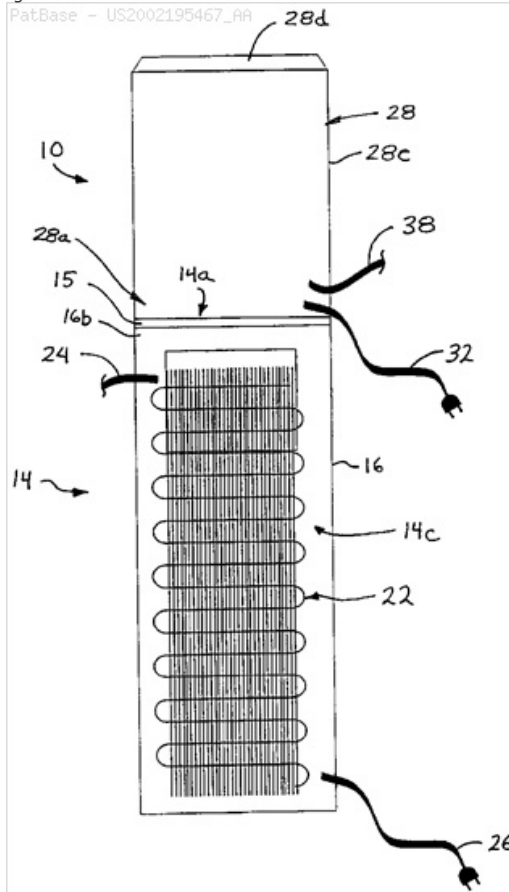
International (IPC 8-9): B01D3/02 B01D35/143 B67D1/00 B67D3/00 B67D5/56 C02F1/04 C02F9/00 E04B1/32 E04B1/344 E04B7/10 E04C3/00 (Advanced/Invention); B67D1/00 (Advanced/Non-invention); B01D3/00 B67D3/00 C02F1/04 C02F9/00 E04B1/32 E04B1/344 E04B7/10 E04C3/00 (Core/Invention); B67D1/00 (Core/Non-invention)

International (IPC 1-7): B01D3/02 B01D35/143 B65D5/66 B67D3/00 B67D5/56 B67D5/62 E04B7/08 E04H1/00 E04H15/44

CPC: B01D3/02 B67D3/0009 B67D3/0022 B67D3/0032 B67D2210/0001 C02F1/04 C02F9/005 E04B1/3211 E04B1/344 E04B7/102 E04B7/107 E04B2001/3282 E04C3/005 E04B1/32

European: B01D3/02 B67D3/00C B67D3/00F B67D3/00H2 C02F1/04 C02F9/00B E04B1/32 E04B1/32C E04B1/344 E04B7/10B E04B7/10D E04C3/00B L67D210/00B2D P04B1/32P1B

US: 135/131 135/145 222/113 222/146.6 222/146.600P 222/146.600S 5/264.1 5/264.5 5/28.01 52/109 52/641 52/645 52/71 52/79.1 52/79.5 52/791 52/795 52/80.1 52/801 521/90



Family:

Publication number	Publication date	Application number	Application date
AU200047072 A1	20001121	AU20000047072	20000508
AU200047072 A5	20001121	AU20000047072D	20000508

CA2370510 AA	20011113	CA20002370510	20000508
JP2002544074 T2	20021224	JP20000617121T	20000508
US2002195467 AA	20021226	US20020225845	20020822
US2003037491 AA	20030227	US20020219226	20020815
US2004129723 AA	20040708	US20030739422	20031218
US6739098 BB	20040525	US20020219226	20020815
WO0068138 A1	20001116	WO2000US12523	20000508
WO03018926 A1	20030306	WO2002US25929	20020815

Priority:

US19990133352P 19990510 WO2000US12523 20000508 US20010314774P 20010824
US20010009213 20011108 US20020219226 20020815 US20020225845 20020822
US20030739422 20031218

Probable Assignee: PURE WATER INC A CORP OF S

Assignee(s): (std): ATHOL E MEDER ; BELL JEFFREY L ; HOBBERMAN CHARLES ; JEFFREY L BELL ; MEDER ATHOL E ; PURE WATER INC ; PURE WATER INC A CORP OF S

Assignee(s): PURE WATER INC A OF STATE OF DELAW CORP ; PURE WATER INC A OF STATE OF DELAWARE CORP ; MEDER GLENN E

Inventor(s): (std): BELL JEFFREY L ; MEDER ATHOL E ; MEDER GLENN E ; HOBBERMAN CHARLES

Inventor(s): JEFFREY L BELL ; ATHOL E MEDER

Agent(s): OGILVY RENAULT LLP SENCRL SRL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

25) Family number: 28193460 (US2002062932A)

PatBase

Title: MULTI-PANEL DOOR WITH AN AUXILIARY DRIVE MECHANISM

Abstract: A multi-panel sliding door includes a main drive to directly move a leading door panel and includes an auxiliary drive to smoothly accelerate a lagging door panel. In some embodiments, the auxiliary drive includes a hanging weight that urges the lagging panel to its open position. In another embodiment, the auxiliary drive includes a belt and sheave arrangement attached to the lagging panel. The leading panel is coupled to move the belt around two sheaves as the leading panel moves relative to the lagging one. The belt's movement is limited by a bumper that is attached to one point on the belt and is constrained to travel between one of the sheaves and a fixed stop attached to a wall or the track. As the main drive starts moving the leading panel to its open position, the relative movement between the two panels causes the belt to move the bumper up against the fixed stop. From there, continued opening movement of the leading panel continues rotating the belt around the sheaves. Since the bumper now holds a portion of the belt fixed relative to the stop, the sheaves begin to translate. This begins moving the lagging panel to its open position off to one side of a doorway before the lead panel reaches its open position in front of the lagging panel.

Classifications:

International (IPC 8-9): E05F15/14 E05F17/00 (Advanced/Invention);

E05F1/02 (Advanced/Non-invention);

E05F15/14 E05F17/00 (Core/Invention);

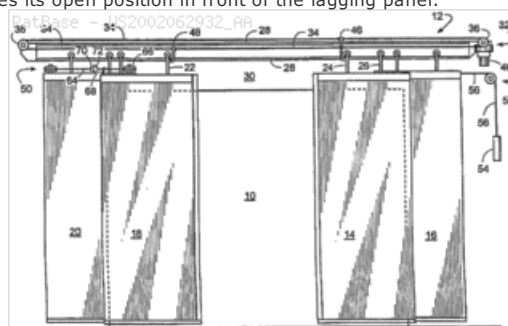
E05F1/00 (Core/Non-invention)

International (IPC 1-7): E05D15/06

CPC: E05F15/643 E05F17/004 E05F1/025 E05Y2800/122

European: E05F15/14F E05F17/00D P05F1/02B

US: 160/118 160/197 160/202 160/222 49/102



Family:

Publication number	Publication date	Application number	Application date
US2002062932 AA	20020530	US20010054454	20011113
US6352097 BA	20020305	US19990394799	19990910
US6923238 BB	20050802	US20010054454	20011113

Priority:

US19990394799 19990910 US20010054454 20011113

Probable Assignee: RITE HITE HOLDING CORP

Assignee(s): (std): KERN RODNEY ; RITE HITE HOLDING CORP ; SCHWINGLE JAMES

Inventor(s): (std): KERN RODNEY ; SCHWINGLE JAMES

Agent(s): MARSHALL GERSTEIN AND BORUN LLP

26) Family number: 28254187 (US2002083675A)

PatBase

Title: Connections to make foldable structures

Abstract: A new hub element is disclosed for building reversible expandable three-dimensional truss structures. The hub element can directly connect a pin joint towards the center of a scissor linkage to a pivot located near the extremity of another out-of-plane scissor linkage. It has the advantages of being more compact than previously known hub elements and can be used to

create foldable structures that are more structurally sound than previously possible. The use of this novel hub element can also reduce the number of pieces required for a given foldable structure, thereby reducing manufacturing and assembly costs.

Classifications:

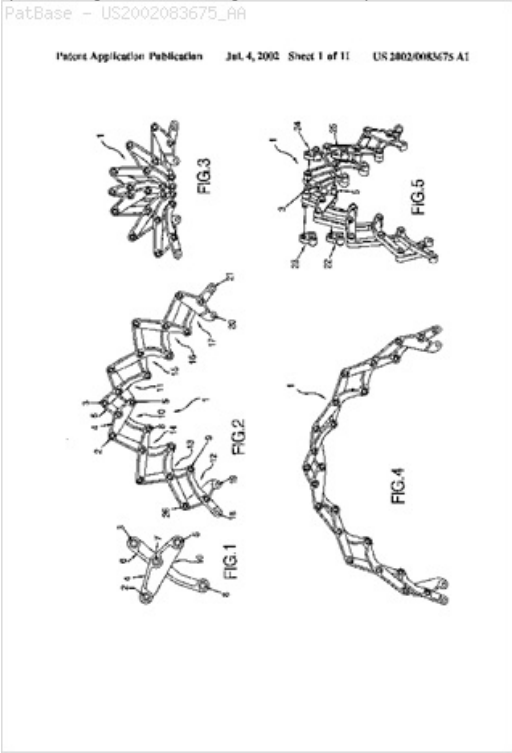
International (IPC 8-9): A63F9/08 E04B1/344 (Advanced/Invention);
A63F9/06 E04B1/344 (Core/Invention)

International (IPC 1-7): A63F9/08 E04B1/32 E04B1/344 E04C3/38
E04H12/18

CPC: A63F9/088 E04B1/3441

European: A63F9/08G E04B1/344B

US: 52/641 52/645 52/646 52/649.5 52/80.1 52/801



Family:

Publication number	Publication date	Application number	Application date
EP1219754 A1	20020703	EP20010300695	20010126
US2002083675 AA	20020704	US20010766242	20010119

Priority:

US20000258677P 20001228 US20010766242 20010119

Probable Assignee: HOBBERMAN CHARLES

Assignee(s): (std): HOBBERMAN CHARLES

Inventor(s): (std): HOBBERMAN CHARLES

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

27) Family number: 28247008 (US2002104625A)

© PatBase

Title: DUST-PROOF COVER WITH CONNECTING RODS

Abstract: This invention is a dust-proof protection cover with connecting rods. It includes several protecting cover boards in the same shape with different sizes. The sizes of protecting cover boards are decreasing and their connection will form a structure that can expand and contract along the same axis. On the bottom board of each protecting cover board, there is a sliding trough. In addition, there is a linking device is made of many connection shafts. All these connection shafts will form a device with serial protection cover that can expand and contract.

Classifications:

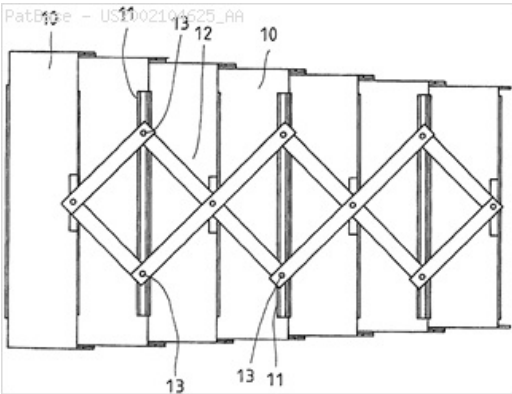
International (IPC 8-9): B23Q11/08 (Advanced/Invention);
B23Q11/08 (Core/Invention)

International (IPC 1-7): B23Q11/08 E05D15/06 E06B3/12

CPC: B23Q2011/0808 B23Q11/0825

European: B23Q11/08C

US: 160/202 160/222



Family:

Publication number	Publication date	Application number	Application date
EP1232833 A1	20020821	EP20010300677	20010125
US2002104625 AA	20020808	US20010776760	20010206

Priority:

EP20010300677 20010125 US20010776760 20010206

Probable Assignee: WANG GREG

Assignee(s): (std): WANG GREG

Inventor(s): (std): WANG GREG

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

28) Family number: 28232592 (US2002112413A)

© PatBase

Title: LOOP ASSEMBLIES HAVING A CENTRAL LINK

Abstract: Improved reversibly expandable structures are formed from novel loop assemblies comprising a plurality of links, each of said links having at least one center pivot joint and a plurality of end pivot joints, each of at least two of said plurality of end pivot joints proximate to the outer edge of said loop assembly and connected to another link; each of said plurality of links being connected to another one of said plurality of links by at least two end pivot joints thereby forming a link pair, said loop assembly comprising at least three link pairs, each of said at least three link pairs connected to at least two other link pairs through at least one of said end pivot joints; each of said at least three link pairs connected to a central piece that is central to the loop assembly, said central piece being rotatable around a central axis, wherein the rotation of the central piece reversibly expands said loop assembly.

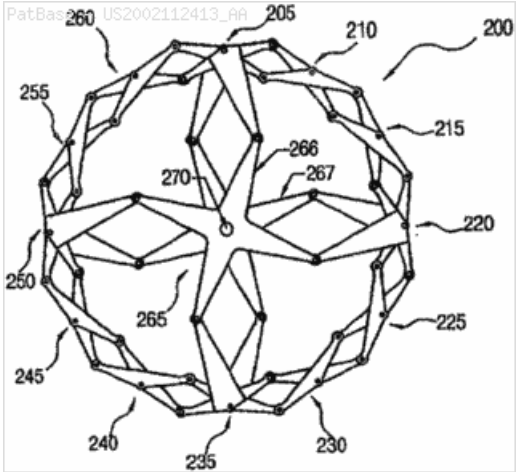
Classifications:

International (IPC 8-9): E04B1/32 E04B1/344
E04B7/08 (Advanced/Invention)

International (IPC 1-7): A63H33/00 E04B1/32 E04B1/346
CPC: Y10S52/10 E04B1/3441 E04B1/3211 E04B2001/3241

European: E04B1/32C E04B1/344B P04B1/32M1

US: 135/25 135/29 446/478 446/486 446/487 446/488 52/109 52/111 52/64 52/641 52/646 52/646S 52/648.1 52/653.1 52/71 52/71P 52/745.07 52/745.08 52/80.1 52/80.100S 52/81.1 52/81.3 52/81.300S 52/81.4 52/81.400S 52/81.5 52/DIG.1 52/DIG.10



Family:

Publication number	Publication date	Application number	Application date
US2002112413 AA	20020822	US20020067379	20020205
US7100333 BB	20060905	US20020067379	20020205
WO02063111 A1	20020815	WO2002US03251	20020205

Priority:

US20010267240P 20010207 US20020067379 20020205

Probable Assignee: HOBERMAN CHARLES

Assignee(s): (std): HOBERMAN CHARLES

Inventor(s): (std): HOBERMAN CHARLES

Agent(s): GOTLIEB RACKMAN AND REISMAN PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

29) Family number: 27988003 (US2003009950A)

© PatBase

Title: Telescopic seating riser assembly

Abstract: A telescopic seating riser assembly capable of being configured into a variety of seating riser systems. The assembly has a plurality risers having vertically spaced substantially horizontal portions with the risers being movable between an extended position for use and a retracted position for storage. The assembly is further constructed to support deck bridging panels between spaced apart pairs of assemblies, and to utilize a method of supporting at least one deck bridging panel on a pair of spaced apart telescopic seating riser assemblies in an extended position for use and in a retracted position for storage of the assemblies.

Classifications:

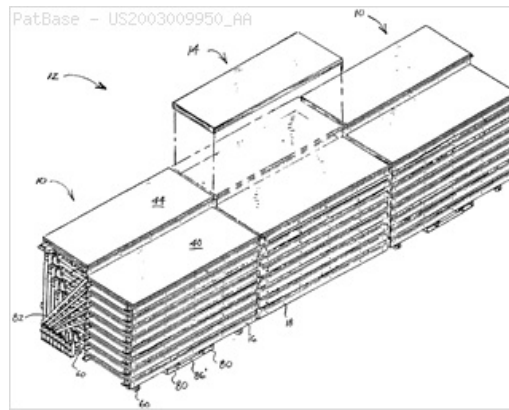
International (IPC 8-9): A47C1/12 E04H3/12
E04H3/30 (Advanced/Invention);
E04H3/10 (Core/Invention)

International (IPC 1-7): A47C1/12 E04H3/10 E04H3/12 E04H3/30

CPC: E04H3/123

European: E04H3/12B

US: 52/6 52/64 52/741.1 52/8 52/9



Family:

Publication number	Publication date	Application number	Application date
CA2353270 AA	20030116	CA20012353270	20010719
US2003009950 AA	20030116	US20010904552	20010716
US6598351 BB	20030729	US20010904552	20010716

Priority:

US20010104435 20010716 US20010904552 20010716 CA20012353270 20010719

Probable Assignee: STAGERIGHT CORP

Assignee(s): (std): HALLBERG EDWIN A ; STAGERIGHT CORP

Inventor(s): (std): HALLBERG EDWIN A

Agent(s): RIDOUT AND MAYBEE LLP

30) Family number: 28575990 (US2003097801A)

PatBase

Title: FOLDING COVERING PANELS FOR EXPANDING STRUCTURES

Abstract: Reversibly expanding covering elements for truss structures made up of scissor-assemblies that are connected together by hub elements structures. These covering elements are comprised of a folded sheet of flexible material such as cardboard or a plastic sheet, or alternatively, comprised of planar panels that are hinged together. As the truss structure expands and contracts, the covering element is compressed and expanded along with it.

Classifications:

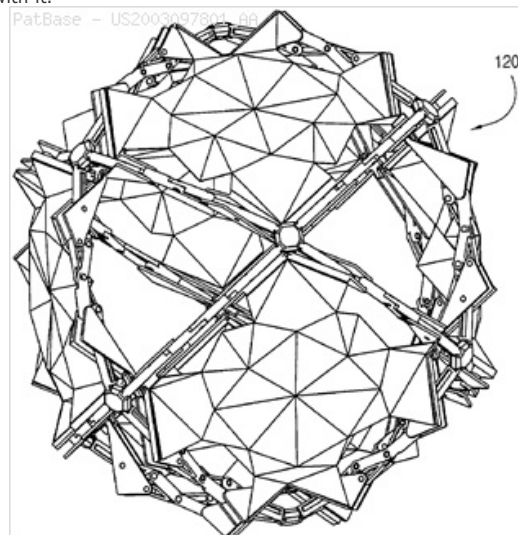
International (ipc 8-9): E04B1/344 E04B7/08 E04B7/10 E04H15/50 (Advanced/Invention); E04B1/32 (Advanced/Non-invention); E04B1/344 E04B7/08 E04B7/10 E04H15/34 (Core/Invention); E04B1/32 (Core/Non-invention)

International (ipc 1-7): B62D63/04 E04B1/34 E04B7/08 E04C

CPC: E04B1/3441 E04B7/105 E04B7/107 E04B2001/3241 E04B2001/3252 E04H15/50

European: E04B1/344B E04B7/10C E04B7/10D E04H15/50 P04B1/32M1 P04B1/32M2

US: 52/3 52/3P 52/81.2 52/81.200S



Family:

Publication number	Publication date	Application number	Application date
AU2002343763 AA	20030709	AU20020343763	20021125
AU2002343763 AH	20030709	AU20020343763	20021125
US2003097801 AA	20030529	US20020303550	20021125
US6834465 BB	20041228	US20020303550	20021125
WO03054318 A2	20030703	WO2002US37802	20021125
WO03054318 A3	20030918	WO2002US37802	20021125

Priority:

US2001033418P 20011126 US20020303550 20021125 WO2002US37802 20021125

Probable Assignee: HOBERMAN CHARLES

Assignee(s): (std): HOBERMAN CHARLES

Inventor(s): (std): HOBERMAN CHARLES

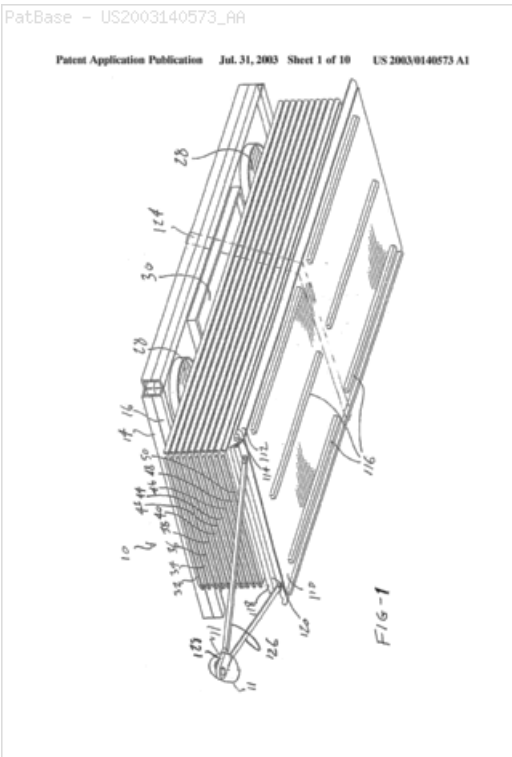
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

31) Family number: 28878528 (US2003140573A) © PatBase

Title: ASSEMBLEABLE AND TOWABLE/TRAILERABLE ICE FISHING SHANTY/HUNTING BLIND

Abstract: A portable and assembleable enclosure having a floor constructed of a first rigid panel and a second hingedly interconnecting panel, a recessed channel extending about an outer perimeter of the floor panels. A plurality of walls are each constructed of a rigid material and exhibit an annular shaped projection along a first extending side edge. A corresponding and annular shaped recess extends along a second extending side edge and receives, in engaging fashion, a first extending side edge of a succeeding wall and so that the walls may be interconnected along opposing extending edges in addition to being secured to the floor in upwardly extending fashion from within the recessed channel. A peaked roof is constructed of a first rigid panel and a second interconnecting rigid panel and which is secured to an upper perimeter extending edge of the interconnected walls. First and second pairs of triangular shaped and hinged end panels securing to opposite ends of the peaked roof panels and to enclose the structure. The floor, walls and roof convert between a stacked and transportable configuration to an assembled configuration without the need of tools.

Classifications:
International (IPC 8-9): E04B1/343 (Advanced/Invention); E04B1/343 (Core/Invention)
International (IPC 1-7): E04B1/346 E04B7/16 E04H1/00 E04H14/00 E04H9/00
CPC: E04B1/34321 E04B2001/34389
European: E04B1/343C1 P04B1/343P
US: 446/478 52/589.1 52/64 52/70 52/71 52/79.1 52/79.5 52/791



Family:

Publication number	Publication date	Application number	Application date
US2003140573 AA	20030731	US20030354539	20030130
US6948280 BB	20050927	US20030354539	20030130

Priority:

US20020352834P 20020130 US20030354539 20030130

Probable Assignee: MARCINKOWSKI DAVE

Assignee(s): (std): MARCINKOWSKI DAVE ; MARCINKOWSKI MARY

Inventor(s): (std): MARCINKOWSKI DAVE ; MARCINKOWSKI MARY

Agent(s): GIFFORD KRASS GROH SPRINKLE ANDERSON AND CITKOWSKI PC

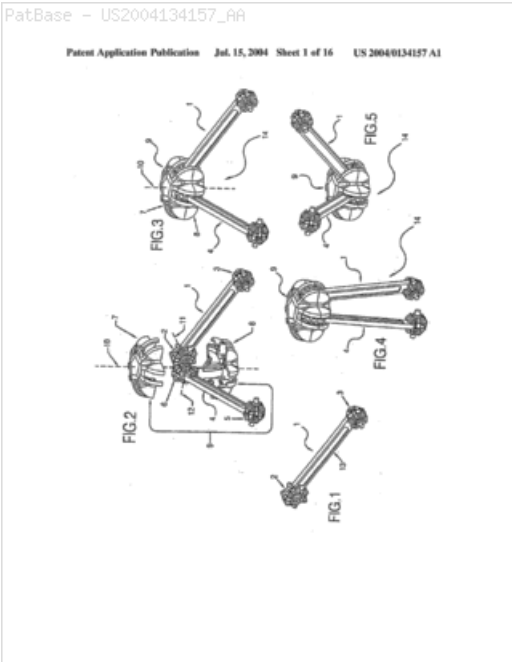
32) Family number: 30725119 (US2004134157A) © PatBase

Title: GEARED EXPANDING STRUCTURES

Abstract: A folding linkage is hereby disclosed that is comprised of four links, each link having a bevel gear on its end, where each link is in geared contact with a neighboring link, such that both links are held together by a hub element that is small relative to the two links. An alternate embodiment of the invention has links that have a spur gear on each end, whereby each gear end is engaged with a central rack (linear gear).

Classifications:
International (IPC 8-9): A63H31/00 A63H33/10 E04B1/344 E04B7/08 E04B7/10 E04H1/12 (Advanced/Invention); E04C3/02 (Advanced/Non-invention)

International (IPC 1-7): E04B1/18 E04B1/32 E04B1/342 E04B5/10 E04B5/18 E04B7/08 E04C3/02 E04H12/18
CPC: A63H31/00 A63H33/107 E04B1/3441 E04B7/105 E04C2003/023 E04C2003/026 E04H1/1272
European: A63H31/00 A63H33/10S E04B1/344B E04B7/10C E04H1/12E P04C3/02A P04C3/02B
US: 52/109 52/109S 52/633 52/633P 52/645 52/646 52/646S 52/80.1 52/80.100S 52/81.1



Family:

Publication number	Publication date	Application number	Application date
US2004134157 AA	20040715	US20030743273	20031222
US7464503 BB	20081216	US20030743273	20031222
WO05068739 A1	20050728	WO2004US21471	20040702

Priority:

US20030439938P 20030114 US20030743273 20031222

Probable Assignee: HOBERMAN CHARLES

Assignee(s): (std): HOBERMAN CHARLES

Inventor(s): (std): HOBERMAN CHARLES

Agent(s): GOTTLIEB RACKMAN AND REISMAN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

33) Family number: 31727946 (US2005053397A)

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Title: CHARGING SYSTEM UTILIZING GRID ELEMENTS WITH DIFFERENTIATED PATTERNS

Abstract: A charging system for uniform charging of charge retentive surfaces such as photoreceptors in imaging systems. The charging system includes corona producing elements and grid elements such as scorotron screens wherein the grid elements are arranged generally parallel to each other and have differentiated grid feature patterns. The differentiated grid feature patterns enable more uniform charging.

Classifications:

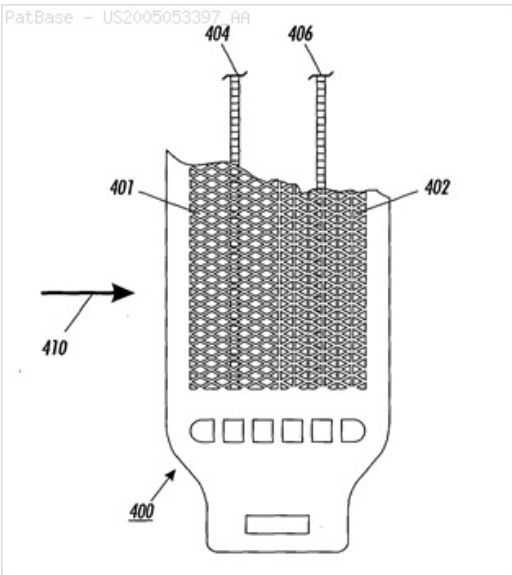
International (IPC 8-9): G03G15/02 (Advanced/Invention); G03G15/02 (Core/Invention)

International (IPC 1-7): G03G15/02

CPC: G03G15/0291 G03G15/0266 G03G2215/027

European: G03G15/02C S03G215/02C1

US: 399/171



Family:

Publication number	Publication date	Application number	Application date
BRPI0403724 A	20050607	BR2004PI03724	20040831
CN100416420 C	20080903	CN200410068655	20040903
CN1591218 A	20050309	CN200410068655	20040903
DE602004024622 D1	20100128	DE200460024622T	20040902
EP1513025 A1	20050309	EP20040020866	20040902
EP1513025 B1	20091216	EP20040020866	20040902
JP2005084688 A2	20050331	JP20040257838	20040906
US2005053397 AA	20050310	US20030654785	20030904
US6963708 BB	20051108	US20030654785	20030904

Priority:

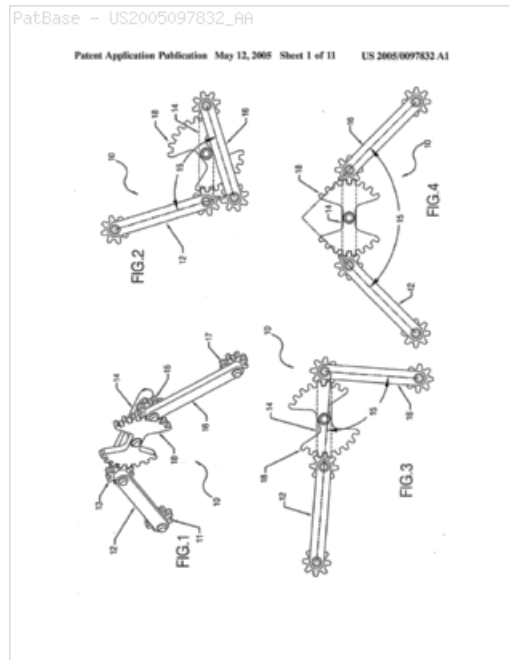
US20030654785 20030904

Probable Assignee: XEROX CORP**Assignee(s):** (std): XEROX CORP**Assignee(s):** JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS**Inventor(s):** (std): DAVID SEKOVSKI ; MCCAFFREY JOHN D ; SAWICKI PAUL F ; SEKOVSKI DAVID**Inventor(s):** PAUL F SAWICKI ; SAWICKI PAUL ; JOHN D MCCAFFREY ; MCCAFFREY JOHN**Agent(s):** GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; PATENT DOCUMENTATION CENTER; OLIFF AND BERRIDGE PLC**Designated states:** DE FR GB**34) Family number: 31882407 (US2005097832A)**

© PatBase

Title: SYNCHRONIZED RING LINKAGES

Abstract: A ring linkage is hereby disclosed that is comprised of at least six links, each link having at least two pivots located proximate to their ends, said links being arranged in a loop whereby each link is pivotally attached via its end pivots to two neighboring links. The motion of the linkage is synchronized by a multiplicity of mechanical elements that serve to synchronize the relative rotation of the links in the assembly such that when a given link rotates by an angle, every second link rotates by the same angle. These synchronizing elements may be either gears, cables or belts, thus the relative angle between the every second link in the ring linkage (as defined by lines passing through their respective end pivots) remains constant and unchanging even as the position of the linkage is changed.

Classifications:**International (IPC 8-9):** B25J17/00 E04B1/344 (Advanced/Invention); B25J17/00 E04B1/344 (Core/Invention)**International (IPC 1-7):** E04H12/18**CPC:** E04B1/3441 Y10T74/20329**European:** E04B1/344B**US:** 428/12 446/487 52/109 74/490.05**Family:**

Publication number	Publication date	Application number	Application date
US2005097832 AA	20050512	US20040962986	20041012
US7540215 BB	20090602	US20040962986	20041012

Priority:

US20030512633P 20031020 US20040962986 20041012

Probable Assignee: HOBERMAN CHARLES**Assignee(s):** (std): DAVIS MATTHEW ; HOBERMAN CHARLES**Inventor(s):** (std): DAVIS MATTHEW ; HOBERMAN CHARLES**Agent(s):** GOTTLIEB RACKMAN AND REISMAN PC; GOTTLIEB RACKMAN AND REISMAN

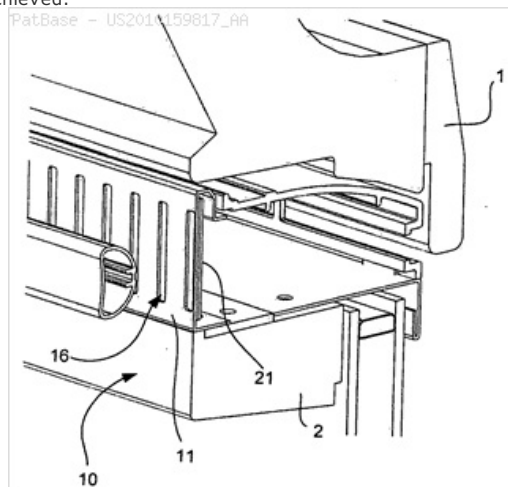
Title: VENTILATION DEVICE AND WINDOW COMPRISING SUCH A DEVICE

Abstract: The ventilation device (10) comprises a first plate (11) having a first set of apertures (16), and a second plate (21) having a second set of apertures (26) separated by cover portions (27). The first and second plates are slidable with respect to each other. The cover portions (27) have dimensions differing from the dimensions of the first set of apertures (16). Furthermore, the dimensions of the cover portions vary along said first direction (x) and/or in a second direction (y) perpendicular to the first direction to provide a visual indication of the degree of ventilation area achieved.

Classifications:**International (IPC 8-9):** E06B7/02 E06B7/10

F24F13/12 (Advanced/Invention);

E06B7/02 F24F13/10 (Core/Invention)

CPC: E06B7/02**European:** E06B7/02**US:** 454/211**Family:**

Publication number	Publication date	Application number	Application date
CN101248246 A	20080820	CN200680031181	20060905
CN101248246 B	20110615	CN200680031181	20060905
EP1760246 A1	20070307	EP20050388075	20050905
EP1922469 A1	20080521	EP20060775977	20060905
EP1922469 B1	20161130	EP20060775977	20060905
PL1922469 T3	20170531	PL20060775977T	20060905
US2010159817 AA	20100624	US20060990202	20060905
WO07028391 A1	20070315	WO2006DK00492	20060905

Priority:

EP20050388075 20050905

EP20060775977 20060905

WO2006DK00492 20060905

Probable Assignee: VKR HOLDING A S**Assignee(s):** (std): LINDGREN CLAES ; VKR HOLDING AS**Assignee(s):** VKR HOLDING A S**Inventor(s):** (std): CLAES LINDGREN ; LINDGREN CLAES**Agent(s):** CARLSSON EVA ET AL; AWAPATENT A S; MEREK BLACKMON AND VOORHEES LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: ADAPTABLE COVERING STRUCTURES

Abstract: An assembly comprising at least two movable panels, each having an elongated profile and at least two pivot connections is provided. The assembly also includes at least two links, each link comprised of at least two pivot connections, each of which is offset from one another both in the plane orthogonal to the axis of the pivots as well as offset from one another along the vector defined by the axis of the pivots itself. The assembly further includes a single fixed member to which the two or more links are pivotally attached. The movable panels are each pivotally attached to at least two of the two or more links. The assembly may take an extended configuration wherein the panels form a continuous surface having a polygonal profile in plan and a stepped profile in elevation. The assembly may take on a retracted configuration such that the panels are essentially stacked over one another to form a compact bundle having an elongated profile.

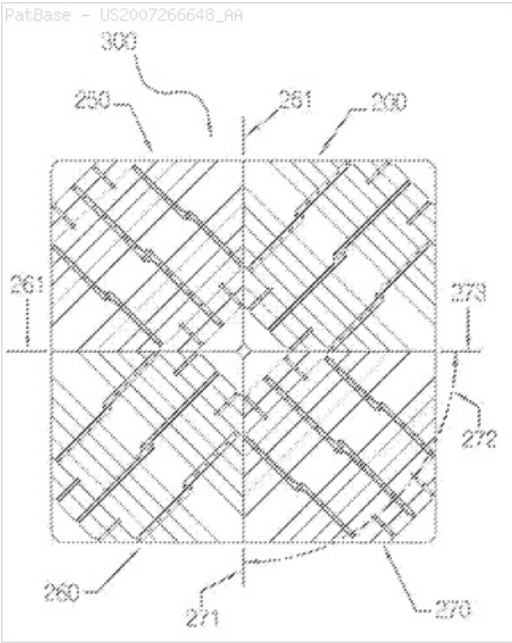
Classifications:**International (IPC 8-9):** E04B1/32 E04B1/346 E04B7/08 E04B7/16

E04F10/00 E04H12/18 E04H15/38 (Advanced/Invention);

E04B1/32 E04B1/346 E04B7/08 E04B7/16 E04H12/00

E04H15/34 (Core/Invention)

CPC: E04F10/10 E04B1/3412 E04F10/00 E04F10/0681 E04B7/166**European:** E04B1/34C1 E04B7/16T E04F10/00 P04F10/06P4 P04F10/08**US:** 52/66 52/80.1 52/80.100



Family:

Publication number	Publication date	Application number	Application date
EP2115229 A1	20091111	EP20070797523	20070517
EP2115229 A4	20101215	EP20070797523	20070517
US2007266648 AA	20071122	US20070749304	20070516
US7559174 BB	20090714	US20070749304	20070516
WO08140526 A1	20081120	WO2007US69102	20070517

Priority:

US20060801807P 20060519 US20070749304 20070516 WO2007US69102 20070517

Probable Assignee: HOBERMAN CHARLES

Assignee(s): (std): HOBERMAN CHARLES

Inventor(s): (std): HOBERMAN CHARLES

Agent(s): HACKETT SEAN JAMES; GOTTLIEB RACKMAN AND REISMAN PC; GOTTLIEB RACKMAN AND REISMAN; KADEN JEFFREY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

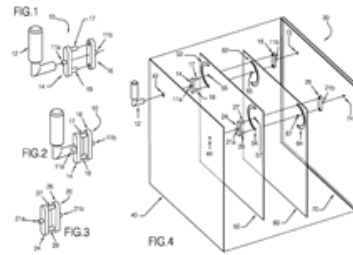
37) Family number: 46986803 (US2010243180A) © PatBase

Title: PANEL ASSEMBLIES HAVING CONTROLLABLE SURFACE PROPERTIES

Abstract: An assembly comprised of at least one fixed panel and at least two moveable panels is provided. The moveable panels are capable of being controllably shifted relative both to each other and to the fixed panel such that first and second aligned and non-aligned positions can be achieved. The assembly is further comprised of two or more drive links which are, in turn, comprised of a center pivot which engages with the fixed panel and two or more outer pivots which engage with the movable panels.

Classifications:

International (IPC 8-9): E04B1/86 E04B1/99 E04C2/36 E04C2/40 E04C2/54 E06B3/32 E06B9/24 (Advanced/Invention); E04C2/34 E04C2/40 E06B3/32 (Core/Invention) CPC: E04B1/994 E06B9/24 E06B2009/2405 E06B2009/2447 E04B1/86 US: 160/187 160/218 160/222 49/118 49/128 49/87.1 52/64 52/787.1

**Family:**

Publication number	Publication date	Application number	Application date
EP2411591 A2	20120201	EP20100756719	20100323
EP2411591 A4	20140618	EP20100756719	20100323
US2010243180 AA	20100930	US20100729598	20100323
US8615970 BB	20131231	US20100729598	20100323
WO10111276 A2	20100930	WO2010US28330	20100323
WO10111276 A3	20110113	WO2010US28330	20100323

Priority:

US20090162901P 20090324 US20100729598 20100323 WO2010US28330 20100323

Probable Assignee: HOBBERMAN CHARLES

Assignee(s): (std): DAVIS MATTHEW ; DROZDOWSKI ZYGMUNT JOSEPH ; HOBBERMAN CHARLES ; WIGHT DAVID

Inventor(s): (std): WIGHT DAVID ; HOBBERMAN CHARLES ; DROZDOWSKI ZYGMUNT JOSEPH ; DAVIS MATTHEW

Agent(s): SOMERVELL THOMAS RICHARD; GOTTLIEB RACKMAN AND REISMAN PC; KADEN JEFFREY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

38) Family number: 65685802 (US9650828B)

© PatBase

Title: VARIABLE SCREENS

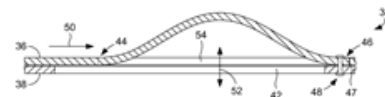
Abstract: In one embodiment, a variable screen includes a first panel including elongated slats having a fixed end and a free end, the slats being flexible so that they can bend without breaking, and a second panel associated with the first panel, the second panel including elongated slots that align with the slats of the first panel, wherein the free ends of the slats are attached to the second panel near ends of the slots and wherein relative movement of the panels causes the slats to bow outward to enable light or air to pass through the slots.

Classifications:

International (IPC 8-9): E06B9/00 E06B9/24 (Advanced/Invention)

CPC: E06B9/24 E06B2009/2423 E06B2009/2405

PatBase - US9650828_BA

**Family:**

Publication number	Publication date	Application number	Application date
US9650828 BA	20170516	US20140523067	20141024

Priority:

US20130895114P 20131024 US20140523067 20141024

Probable Assignee: OF SOUTH FLORIDA UNIV

Assignee(s): (std): UNIV SOUTH FLORIDA ; WESTON MARK WILLIAM
Assignee(s): OF SOUTH FLORIDA UNIV
Inventor(s): (std): WESTON MARK WILLIAM
Agent(s): THOMAS HORSTEMEYER LLP

39) Family number: 68046696 (US9857026B)

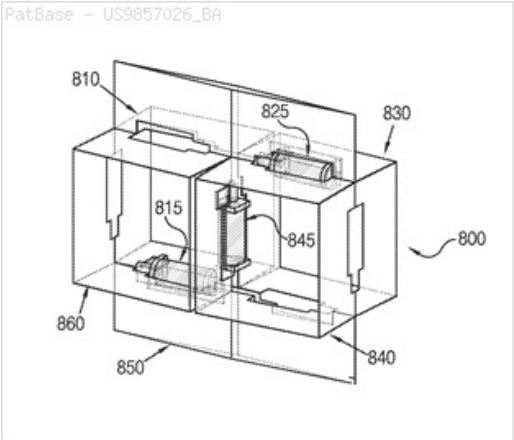
© PatBase

Title: CONSTRUCTION METHOD FOR FOLDABLE UNITS

Abstract: A foldable unit comprised of linkages in the form of tubular prisms is provided. The unit may be additionally comprised of polygonal panels. Linkages and panels correspond to a central polyhedral design that may be specified from a wide variety of geometric arrangements.

Classifications:

International (IPC 8-9): E04B7/02 E04B7/10 F16S1/08
F16S1/10 (Advanced/Invention);
E04B1/19 E04B1/343 (Advanced/Non-invention)
CPC: E04B7/10 F16S1/02 E04B7/107



Family:

Publication number	Publication date	Application number	Application date
US9857026 BA	20180102	US20150796288	20150710

Priority:

US20140023240P 20140711 US20150796288 20150710

Probable Assignee:

HOBERMAN CHARLES

Assignee(s): (std):

HOBERMAN CHARLES

Inventor(s): (std):

HOBERMAN CHARLES

Agent(s):

GOTTLIEB RACKMAN AND REISMAN PC