(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 3 542 668 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
25.09.2019 Bulletin 2019/39

(51) Int Cl.:
A47B 3/091 *(2006.01)*

(21) Application number: **19163370.0**

(22) Date of filing: **18.03.2019**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

(30) Priority: **19.03.2018 US 201862644617 P**

(71) Applicant: **Dongguan Shichang Metals Factory Ltd.**
Dongguan, Guandong 523851 (CN)

(72) Inventor: **LIN, Chen-Kang**
830 Kaohsiung City (TW)

(74) Representative: **BOVARD AG**
Patent- und Markenanwälte
Optingenstrasse 16
3013 Bern (CH)

(54) COLLAPSIBLE BRACE MEMBER FOR A FURNITURE SUPPORT STRUCTURE

(57) A folding leg assembly including a first brace member (34) secured to a first leg (30) and a second brace member (44) secured to a second leg (40). Each brace member includes an upper portion (36, 46) secured to the respective leg, a lower portion (38, 48) secured adjacent the bottom of the furniture support structure, and a pivot member (39, 49) for connecting the upper portion to the lower portion such that each brace member is movable between an extended position and a collapsed position. A handle (50) is disposed between the first brace member and the second brace member and is configured to assist in manipulating the pivot members of the first and second brace members between the extended position and the collapsed position.

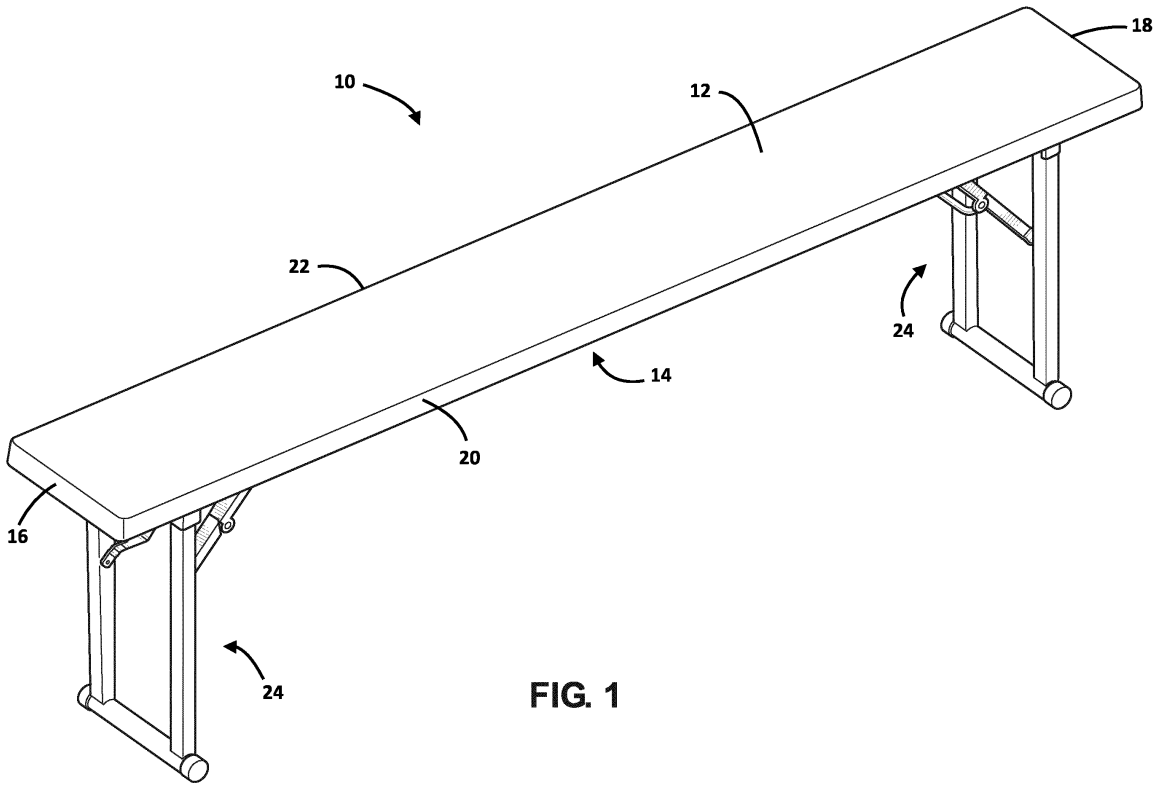

FIG. 1

EP 3 542 668 A1

Description

FIELD

[0001] This disclosure relates to a collapsible furniture support structure. More particularly, this disclosure relates to a collapsible brace members having a handle for manipulating the brace members between an extended position and a collapsed position.

BACKGROUND

[0002] Conventional folding leg assemblies for furniture support structures such as tables and benches often include brace members. One end of the brace member is typically connected to the bottom of the support structure while the opposite end of the brace member is connected to one or more legs. When the brace member is in an extended position, the one or more legs connected to the brace member are in a use position (i.e., the legs are supporting the support structure at a particular height above the ground). When the brace members are in a collapsed position, the legs are in a folded position typically disposed along the bottom surface of the support structure for storing and/or transporting the support structure.

[0003] One problem associated with conventional brace members is that it is often difficult for a user to manipulate the brace members between the extended position and the collapsed position. Another problem is that the support structure, particularly larger/longer support structures, may be difficult to carry in the folded position.

[0004] What is needed therefore is a folding leg assembly having brace members that are easily manipulated between the extended position and the collapsed position as well as a system for assisting in carrying the support structure when the brace members are in the collapsed position.

SUMMARY

[0005] The present disclosure provides a folding leg assembly having a first leg and a second leg attached to one or more axles rotatably secured adjacent a bottom of a furniture support structure. A first brace member is secured to the first leg and a second brace member is secured to the second leg. Each brace member includes an upper portion secured to the respective leg, a lower portion secured adjacent the bottom of the furniture support structure, and a pivot member for connecting the upper portion to the lower portion such that each brace member is movable between an extended position and a collapsed position. A handle is disposed between the first brace member and the second brace member that is dimensioned and configured for assisting in manipulating the pivot members of the first and second brace members between the extended position and the collapsed position. The first and second legs are in a use position when the first and second brace members are in the extended position and the first and second legs are in a folded position when the first and second brace members are in the collapsed position.

[0006] According to certain embodiments, the folding leg assembly includes a spring attached to the upper and lower portions of each of the first and second brace members for biasing the respective brace member to the extended position. In some embodiments, the upper and lower portions of each of the first and second brace members define a recess adjacent the pivot member, and the springs or other extendable mechanisms are disposed within the recesses.

[0007] According to certain embodiments, the folding leg assembly includes one or more clips secured adjacent the bottom of the furniture support structure for receiving the first and second legs in the folded position. In some embodiments, the first and second legs include a support member connecting the legs together, and at least one of the one or more clips is positioned to receive the support member when the first and second legs are in the folded position.

[0008] According to certain embodiments, the handle includes a cross member having a first end secured to the first brace member and a second end secured to the second brace member. According to some embodiments, the handle further includes a handle portion extending from the cross member in a direction opposite the first and second legs when the first and second brace members are in the extended position. In some embodiments, the handle portion is dimensioned and configured to extend substantially perpendicular from the bottom of the support structure when the first and second brace members are in the collapsed position.

[0009] According to another embodiment of the disclosure, a collapsible furniture support structure includes a supporting structure including a top surface, a bottom surface opposite the top surface, a first end, and a second end opposite the first end. A first folding leg assembly is secured to the bottom surface of the supporting structure adjacent the first end and includes a first leg having a top end portion and a second leg having a top end portion, each of the top end portions of the first and second legs secured to an axle rotatably secured to the bottom surface of the supporting structure adjacent the first end. The first folding leg assembly further includes a first brace member secured to the first leg and a second brace member secured to the second leg, the first and second brace members each including an upper portion secured to the first and second legs respectively, a lower portion secured adjacent the bottom surface of the furniture support structure, and a pivot member for connecting the upper portion to the lower portion. A first handle is disposed between the first brace member and the second brace member that is dimensioned and configured for assisting in manipulating the pivot members of the first and second brace members between an extended position and a col-

lapsed position. The support structure further includes a second folding leg assembly secured to the bottom surface of the supporting structure adjacent the second end. The second folding leg assembly includes a third leg having a top end portion and a fourth leg having a top end portion, each of the top end portions of the third and fourth legs secured to an axle rotatably secured to the bottom surface of the supporting structure adjacent the second end. The second folding leg assembly further includes a third brace member secured to the third leg and a fourth brace member secured to the fourth leg, the third and fourth brace members each including an upper portion secured to the third and fourth legs respectively, a lower portion secured adjacent the bottom surface of the furniture support structure, and a pivot member for connecting the upper portion to the lower portion. A second handle is disposed between the third brace member and the fourth brace member that is dimensioned and configured for assisting in manipulating the pivot members of the third and fourth brace members between an extended position and a collapsed position.

[0010] According to certain embodiments, the supporting structure includes an elongated top surface. In some embodiments, the collapsible furniture support structure is a bench.

[0011] According to certain embodiments, the collapsible furniture support structure further includes a spring attached to the upper and lower portions of each of the first, second, third, and fourth brace members for biasing the respective brace member to the extended position. In some embodiments, the upper and lower portions of each of the first, second, third, and fourth brace members define a recess adjacent the pivot member, and the springs or other extendable mechanisms are disposed within the recesses.

[0012] According to certain embodiments, the collapsible furniture support structure further includes one or more clips secured adjacent the bottom surface of the supporting structure for receiving the first, second, third, and fourth legs in a folded position when the first, second, third, and fourth brace members are in their collapsed positions. According to some embodiments, the first and second legs include a first support member connecting the first and second legs together and the third and fourth legs include a second support member connecting the third and fourth legs together, and the support structure further includes at least a first clip positioned adjacent the bottom surface of the supporting structure to receive the first support member when the first and second legs are in the folded position and a second clip positioned adjacent the bottom surface of the supporting structure to receive the second support member when the third and fourth legs are in the folded position.

[0013] According to certain embodiments, each of the first and second handle includes a cross member having a first side secured to the first and third brace members respectively and a second side secured to the second and fourth brace members respectively. According to some embodiments, each of the first and second handle further includes a handle portion extending from the cross member in a direction opposite the legs of their respective folding leg assembly when the first, second, third, and fourth brace members are in the extended position. In some embodiments, the handle portion is dimensioned and configured to extend substantially perpendicular from the bottom of the support structure when the first, second, third, and fourth brace members are in the collapsed position.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] Further advantages of the disclosure are apparent by reference to the detailed description when considered in conjunction with the figures, which are not to scale so as to more clearly show the details, wherein like reference numbers indicate like elements throughout the several views, and wherein:

FIG. 1 is a top perspective view of a collapsible bench having identical brace members on opposing halves of the collapsible bench in an extended position according to one embodiment of the disclosure;

FIG. 2 is a bottom perspective view of the brace member of one half of the collapsible bench of FIG. 1 in the extended position;

FIG. 3 is a side plan view of the brace member of FIG. 2 in the extended position;

FIG. 4 is a rear elevational view of the brace member of FIG. 2 in the extended position;

FIG. 5 is a bottom plan view of the brace member of FIG. 2 in the extended position;

FIG. 6 is a bottom perspective view of the collapsible bench of FIG. 1 in the collapsed position;

FIG. 7 is a bottom perspective view of the brace member of FIG. 2 in the collapsed position; and

FIG. 8 is a bottom plan view of the brace member of FIG. 2 in the collapsed position.

DETAILED DESCRIPTION

[0015] Referring to FIGS. 1 - 8, a furniture support structure 10 in accordance with one exemplary embodiment of the present disclosure includes a planar top surface 12, a bottom surface 14 opposite the top surface 12, a first end 16, a second end 18 opposite the first end 16, a first side 20, and a second side 22 opposite the first side 20. The top surface 12 is preferably rectangular shaped as shown, but may also be square, oval, circular, or irregular shaped within the spirit of the present disclo-

sure. The top surface 12 is preferably formed from blow-molded plastic, but other materials can also be applicable. Secured to the bottom surface 14 are a plurality of folding leg assemblies 24. In preferred embodiments, the bottom surface 14 includes frame members 15, and the folding leg assemblies 24 are attached to the frame members 15 as described below.

[0016] The furniture support structure 10 of the present disclosure, and more particularly the folding leg assemblies 24 for the support structure 10, is believed to be best utilized with respect to furniture support structures having an elongated top surface 12. Even more specifically, the folding leg assemblies 24 of the present disclosure are believed to be particularly suited for structures 10 having an elongated top surface 12 that are intended to be disposed relatively low to the ground, such as the bench as shown. However, the present disclosure can also be utilized for many different structures such as tables, chairs, stools, television trays, etc. having folding leg assemblies and other folding mechanisms. Thus, while the present disclosure is shown and described herein with respect to a bench 10, it should be understood that the disclosure could also be utilized with respect to other surfaces that are supported by folding leg assemblies and other folding mechanisms.

[0017] As shown best in FIG. 2, each folding leg assembly includes a first leg 30 and a second leg 40. Each leg is attached to an axle 32, 42 that is rotatably secured to a frame member 15 extending along the length of the bottom surface 14. As shown, each leg may be secured to a separate axle 32, 42. However, according to alternate embodiments, first leg 30 and second leg 40 may be secured to a single axle extending along the width of the bottom surface 14. As shown, a support member or pedestal 60 is preferably provided for securing the first leg 30 to the second leg 40 and providing additional support when the support structure 10 is in a use position.

[0018] Secured to the first leg 30 is a first brace member 34 and secured to the second leg 40 is a second brace member 44. Each brace member 34, 44 includes an upper portion 36, 46 and a lower portion 38, 48. The upper portion 36, 46 of each brace member 34, 44 is secured to their respective leg, and the lower portions 38, 48 are secured to the frame members 15 extending along the length of the bottom surface 14. Each brace member 34, 44 further includes a pivot member 39, 49 for connecting the upper portion 36, 46 to the lower portion 38, 48 such that each brace member 34, 44 is movable between an extended position and a collapsed position. Axles 32, 42 allow the legs 30, 40 to pivot when the brace members 34, 44 are moved between the extended position and the collapsed position so that the legs are movable between a use position (FIGS. 1 - 5) and a folded position (FIGS. 6 - 8).

[0019] A handle 50 is preferably disposed between the first brace member 34 and the second brace member 44 for manipulating the pivot members 39, 49 of the first and second brace members. As a result of the handle 50 connecting the pivot members 39, 49, both brace members 34 and 44 are operable to be manipulated between the extended position and the collapsed position together (i.e., the pivot members 39, 49 are concurrently manipulated using handle 50). In preferred embodiments, the handle 50 includes a cross member 52 having a first end secured to the first brace member 34 and a second end secured to the second brace member 44 and a handle portion 54 extending from the cross member 52 to make it easy for a user to grasp handle 50 using handle portion 54. In preferred embodiments, cross member 52 is welded on opposing ends to the brace members 34 and 44.

[0020] Referring to FIGS. 1 - 5, the first and second legs 30, 40 of each folding leg assembly 24 are in a use position when the first and second brace members 34, 44 are in the extended position. According to preferred embodiments, the handle portion 54 is dimensioned and configured to extend in the opposite direction of the first and second legs 30 and 40 (i.e., extend away from the legs) for easier access to the handle portion while the support structure 10 is in the use position. Referring to FIGS. 6 - 8, the first and second legs 30, 40 are in a folded position when the first and second brace members 34, 44 are in the collapsed position. When the first and second legs 30, 40 are in the folded position, the handle portion 54 is preferably dimensioned and configured to extend substantially perpendicular to the bottom surface 14 to assist in carrying the support structure 10.

[0021] Referring to FIGS. 2 and 5, each brace member 34, 44 preferably includes a spring 56 or similar extendable mechanism attached to the upper portions 36, 46 and lower portions 38, 48 of each of the first and second brace members 34, 44 for biasing the respective brace member to the extended position. In preferred embodiments, the upper portions 36, 46 and lower portions 38, 48 form recesses 31, 41 across the pivot members 39, 49, and the springs 56 or similar extendable mechanisms are disposed within the recesses 31, 41.

[0022] Referring to FIGS. 5 - 7, the support structure 10 preferably includes one or more clips 58 secured adjacent the bottom surface 14 for receiving the first and second legs 30, 40 in the folded position. As shown, clips 58 are preferably positioned to receive the first and second legs 30, 40 via pedestal 60. Thus, according to this embodiment, one clip 58 may be used to secure both the first and second legs 30, 40 of a folding leg assembly 24 adjacent to the bottom surface 14 of the structure 10 in the folded position by being positioned to receive the pedestal 60 (or other type of support member) connecting the first and second legs 30, 40. Additional clips 58 may be used to assist in securing the legs 30, 40 adjacent to the bottom surface 14 of the support structure 10.

[0023] The foregoing description of preferred embodiments for this disclosure has been presented for purposes of illustration and description. It is not intended to be exhaustive or to limit the disclosure to the precise form disclosed. Obvious modifications or variations are possible in light of the above teachings. The embodiments

are chosen and described in an effort to provide the best illustrations of the principles of the disclosure and its practical application, and to thereby enable one of ordinary skill in the art to utilize the disclosure in various embodiments and with various modifications as are suited to the particular use contemplated. All such modifications and variations are within the scope of the disclosure as determined by the appended claims when interpreted in accordance with the breadth to which they are fairly, legally, and equitably entitled.

Claims

1. A folding leg assembly comprising:

a first leg and a second leg attached to one or more axles that are rotatably secured adjacent a bottom of a furniture support structure;
a first brace member secured to the first leg and a second brace member secured to the second leg, the first brace member including an upper portion secured to the first leg, the second brace member including an upper portion secured to the second leg, each of the first and second brace members including a lower portion secured adjacent the bottom of the furniture support structure, and a pivot member for connecting the upper portion to the lower portion such that each of the first and second brace members is movable between an extended position and a collapsed position; and
a handle disposed between the first brace member and the second brace member, the handle dimensioned and configured for assisting in manipulating the pivot members of the first and second brace members between the extended position and the collapsed position,
wherein the first and second legs are in a use position when the first and second brace members are in the extended position, and the first and second legs are in a folded position when the first and second brace members are in the collapsed position.

2. The folding leg assembly of Claim 1 further comprising a spring attached to the upper and lower portions of each of the first and second brace members for biasing the respective brace member to the extended position.

3. The folding leg assembly of Claim 2 wherein the upper and lower portions of each of the first and second brace members define a recess adjacent the pivot member, and the springs are disposed within the recesses.

4. The folding leg assembly of Claim 1 further comprising one or more clips secured adjacent the bottom of the furniture support structure for receiving the first and second legs in the folded position.

5. The folding leg assembly of Claim 1 wherein the first and second legs each include a support member connecting the first and second legs together, the folding leg assembly further comprising at least one clip positioned adjacent the bottom surface of the support structure to receive the support member when the first and second legs are in the folded position.

6. The folding leg assembly of Claim 1 wherein the handle includes a cross member having a first end secured to the first brace member and a second end secured to the second brace member.

7. The folding leg assembly of Claim 6 wherein the handle further includes a handle portion extending from the cross member in a direction opposite the first and second legs when the first and second brace members are in the extended position.

8. A collapsible furniture support structure comprising:

a supporting structure including a top surface, a bottom surface opposite the top surface, a first end, and a second end opposite the first end;
a first folding leg assembly secured to the bottom surface of the supporting structure adjacent the first end, the first folding leg assembly including:

a first leg having a top end portion and a second leg having a top end portion, each of the top end portions of the first and second legs secured to an axle that is rotatably secured to the bottom surface of the supporting structure adjacent the first end,
a first brace member secured to the first leg and a second brace member secured to the second leg, the first and second brace members each including an upper portion secured to the first and second legs respectively, a lower portion secured adjacent the bottom surface of the furniture support structure, and a pivot member for connecting the upper portion to the lower portion; and
a first handle disposed between the first brace member and the second brace member, the first handle dimensioned and configured for assisting in manipulating the pivot members of the first and second brace members between an extended position and a collapsed position; and

a second folding leg assembly secured to the

bottom surface of the supporting structure adjacent the second end, the second folding leg assembly including:

a third leg having a top end portion and a fourth leg having a top end portion, each of the top end portions of the third and fourth legs secured to an axle that is rotatably secured to the bottom surface of the supporting structure adjacent the second end,
a third brace member secured to the third leg and a fourth brace member secured to the fourth leg, the third and fourth brace members each including an upper portion secured to the third and fourth legs respectively, a lower portion secured adjacent the bottom surface of the furniture support structure, and a pivot member for connecting the upper portion to the lower portion; and
a second handle disposed between the third brace member and the fourth brace member, the second handle dimensioned and configured for assisting in manipulating the pivot members of the third and fourth brace members between an extended position and a collapsed position.

9. The collapsible furniture support structure of Claim 8 wherein the supporting structure includes an elongated top surface.

10. The collapsible furniture support structure of Claim 8 further comprising a spring attached to the upper and lower portions of each of the first, second, third, and fourth brace members for biasing the respective brace member to the extended position.

11. The collapsible furniture support structure of Claim 10 wherein the upper and lower portions of each of the first, second, third, and fourth brace members define a recess adjacent the pivot member, and the springs are disposed within the recesses.

12. The collapsible furniture support structure of Claim 8 further comprising a plurality of clips secured adjacent the bottom surface of the supporting structure for receiving the first, second, third, and fourth legs in a folded position when the first, second, third, and fourth brace members are in their collapsed positions.

13. The collapsible furniture support structure of Claim 8 wherein the first and second legs include a first support member connecting the first and second legs together and the third and fourth legs include a second support member connecting the third and fourth legs together, the support structure further comprising at least a first clip positioned adjacent the bottom surface of the supporting structure to receive the first support member when the first and second legs are in the folded position and a second clip positioned adjacent the bottom surface of the supporting structure to receive the second support member when the third and fourth legs are in the folded position.

14. The collapsible furniture support structure of Claim 8 wherein each of the first and second handle include a cross member having a first side secured to the first and third brace members respectively and a second side secured to the second and fourth brace members respectively.

15. The collapsible furniture support structure of Claim 14 wherein each of the first and second handles further include a handle portion extending from the cross member in a direction opposite the legs of their respective folding leg assembly when the first, second, third, and fourth brace members are in the extended position.

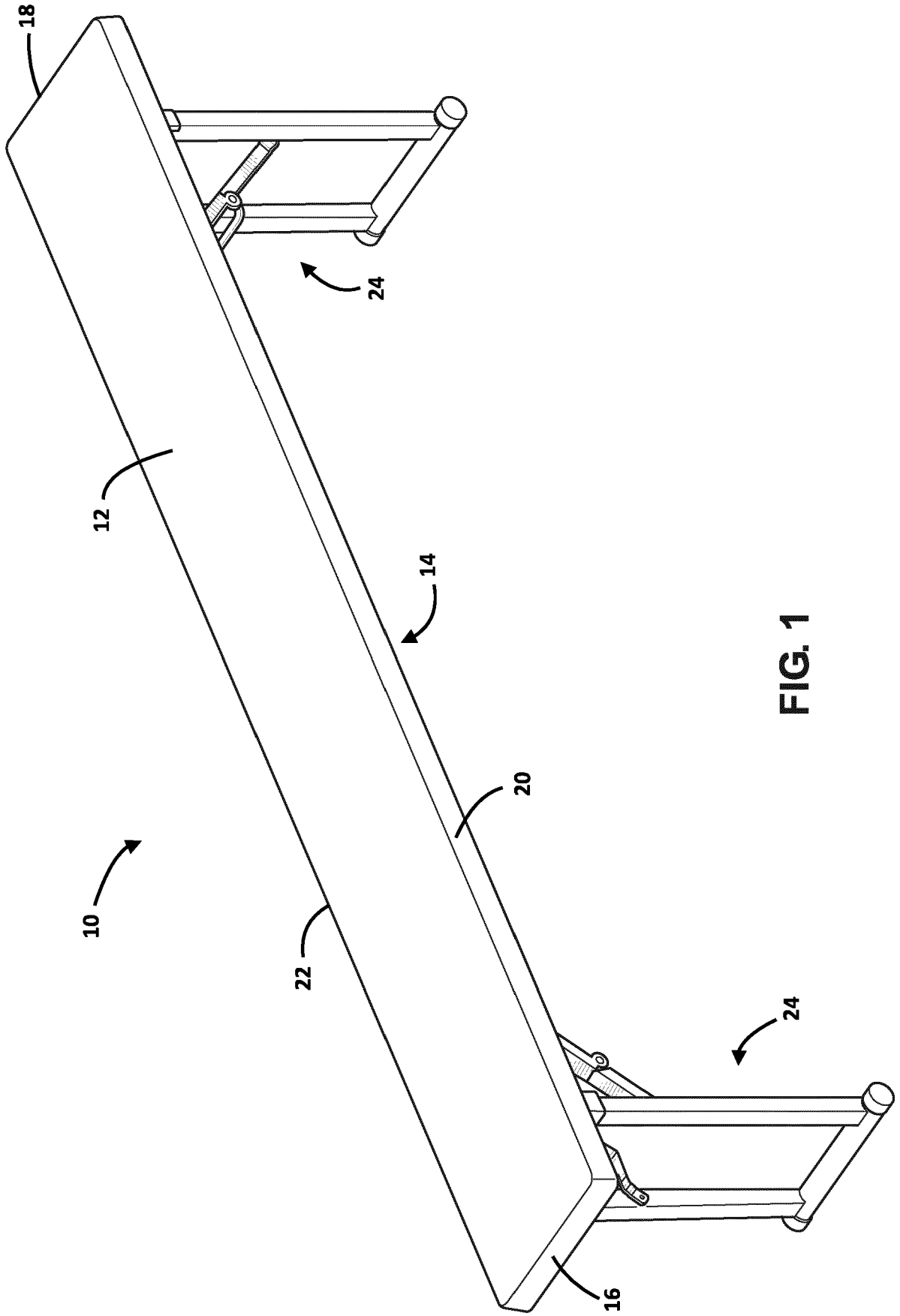

FIG. 1

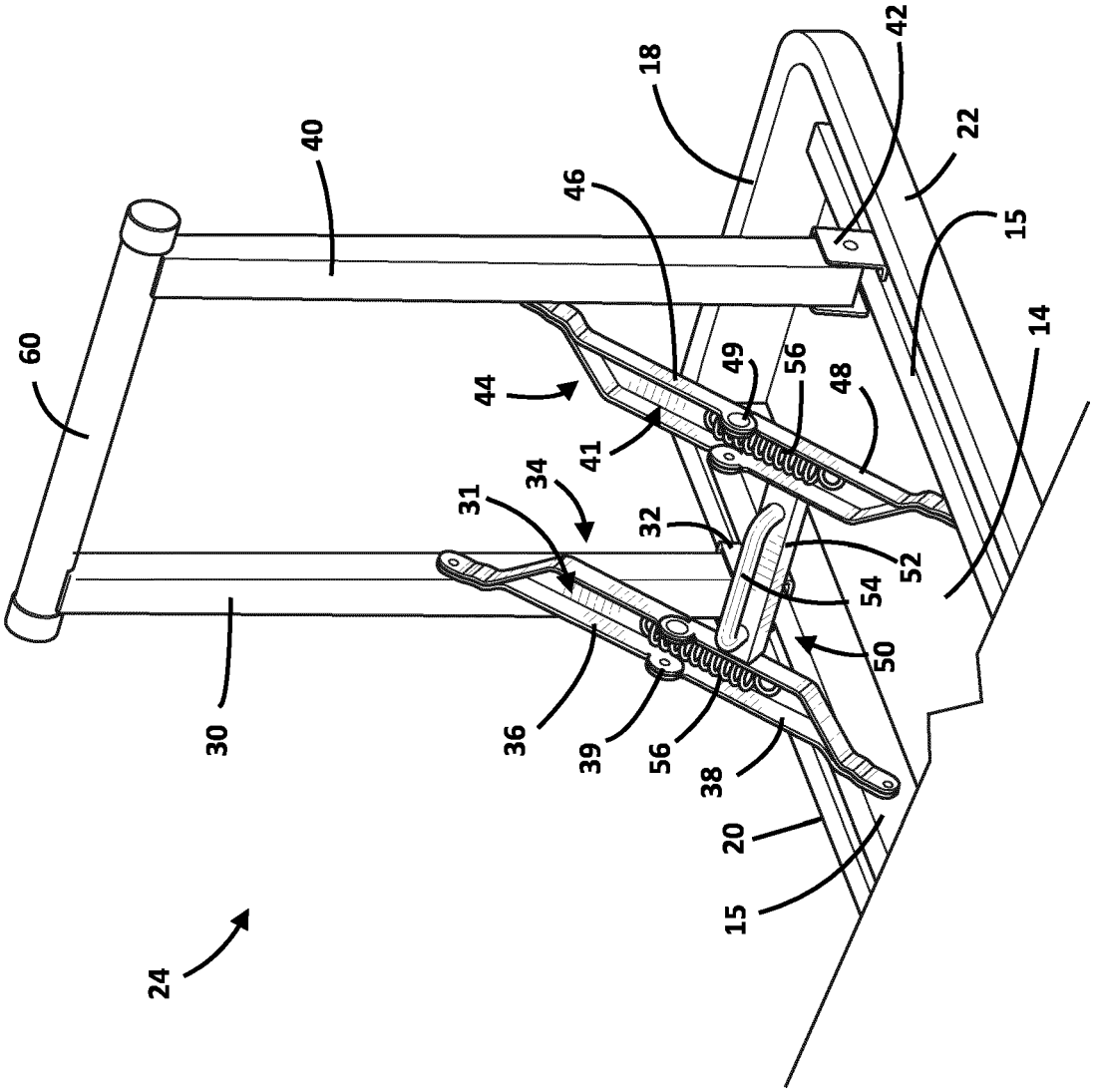
60
40
46
18
42
22
15
14
44
49
56
48
41
34
31
32
52
54
50
30
36
39
56
38
20
15
24

FIG. 2

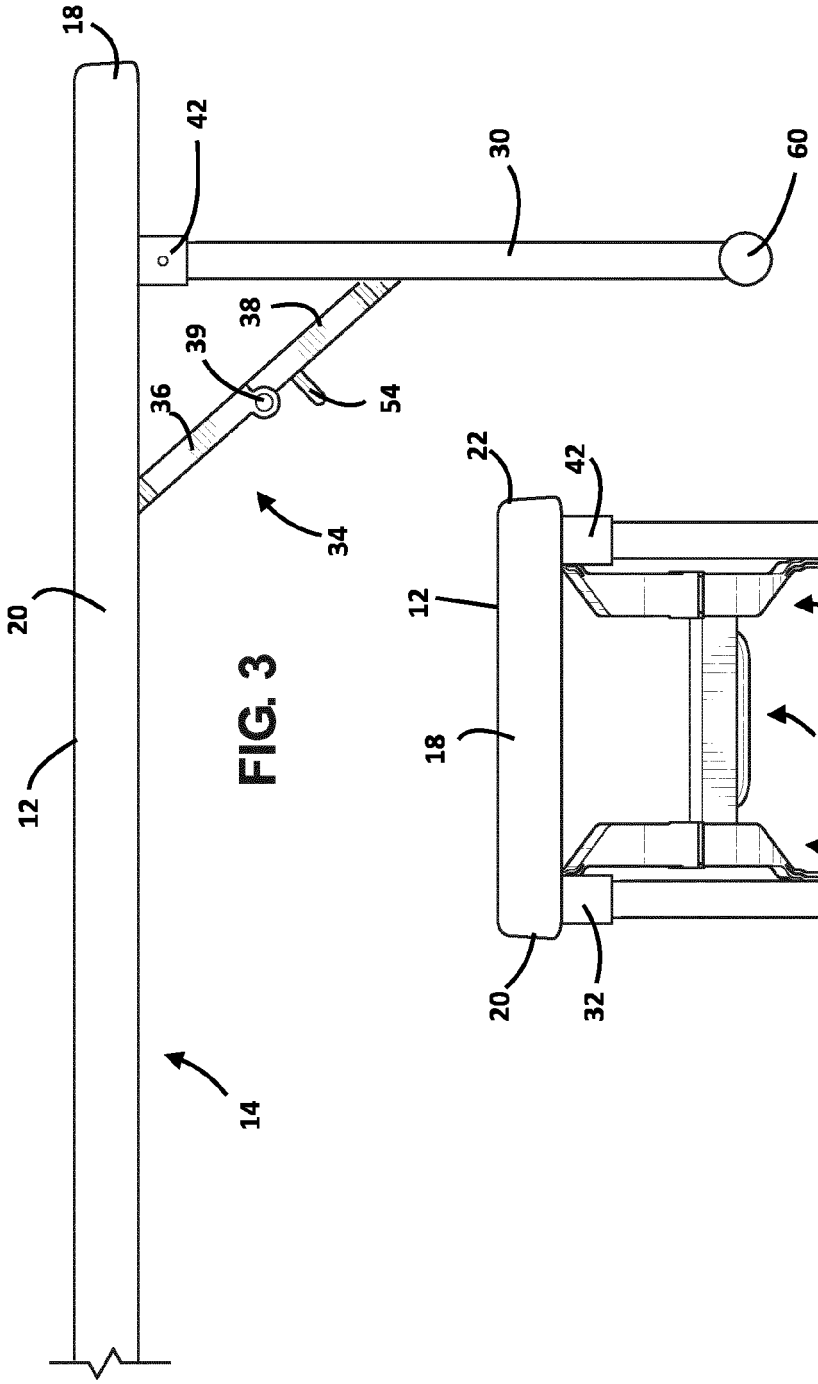

FIG. 3

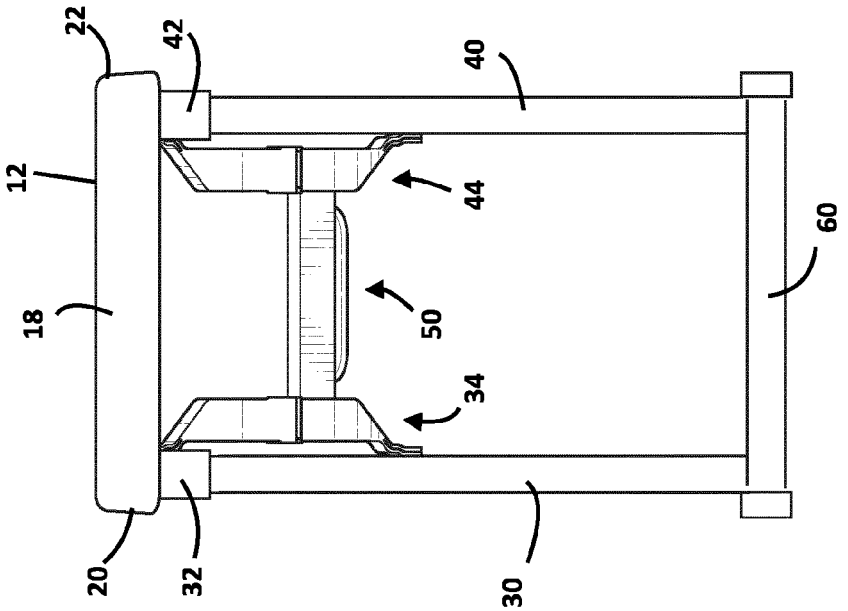

FIG. 4

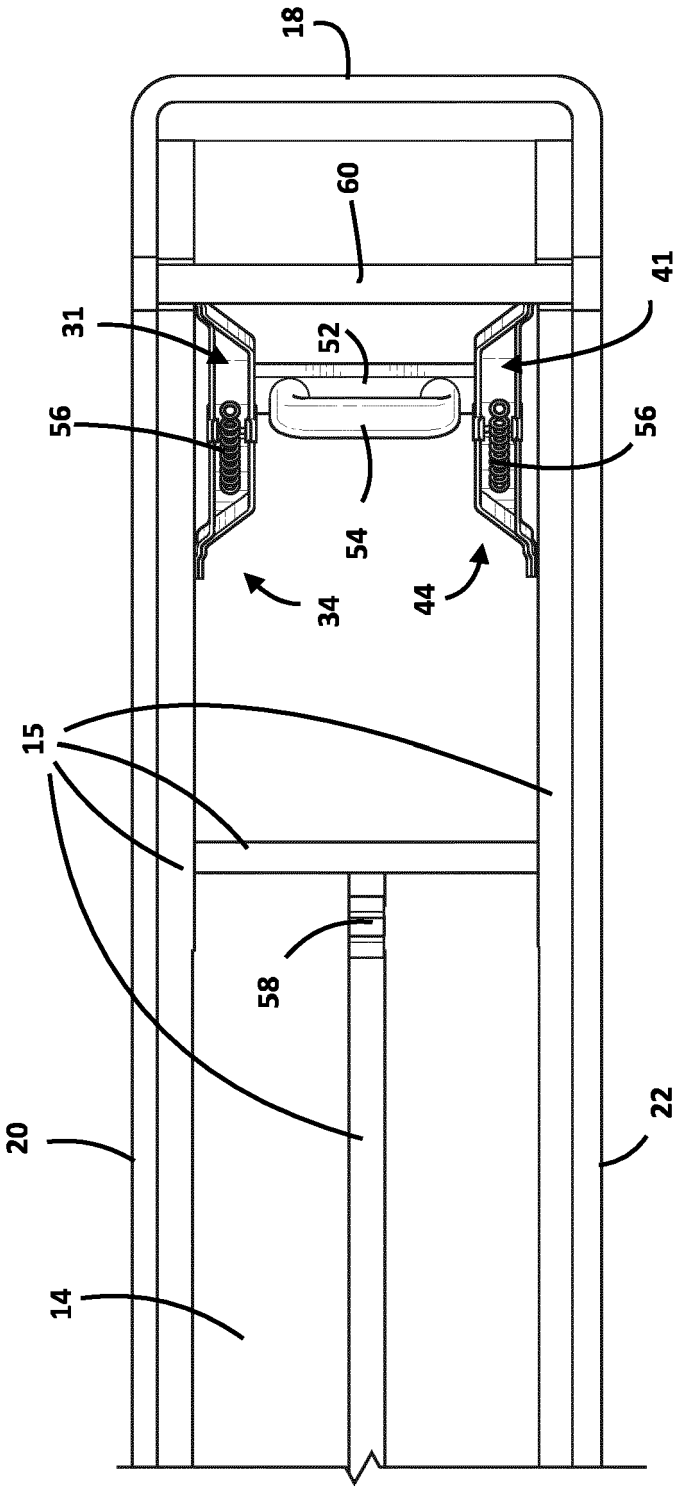

FIG. 5

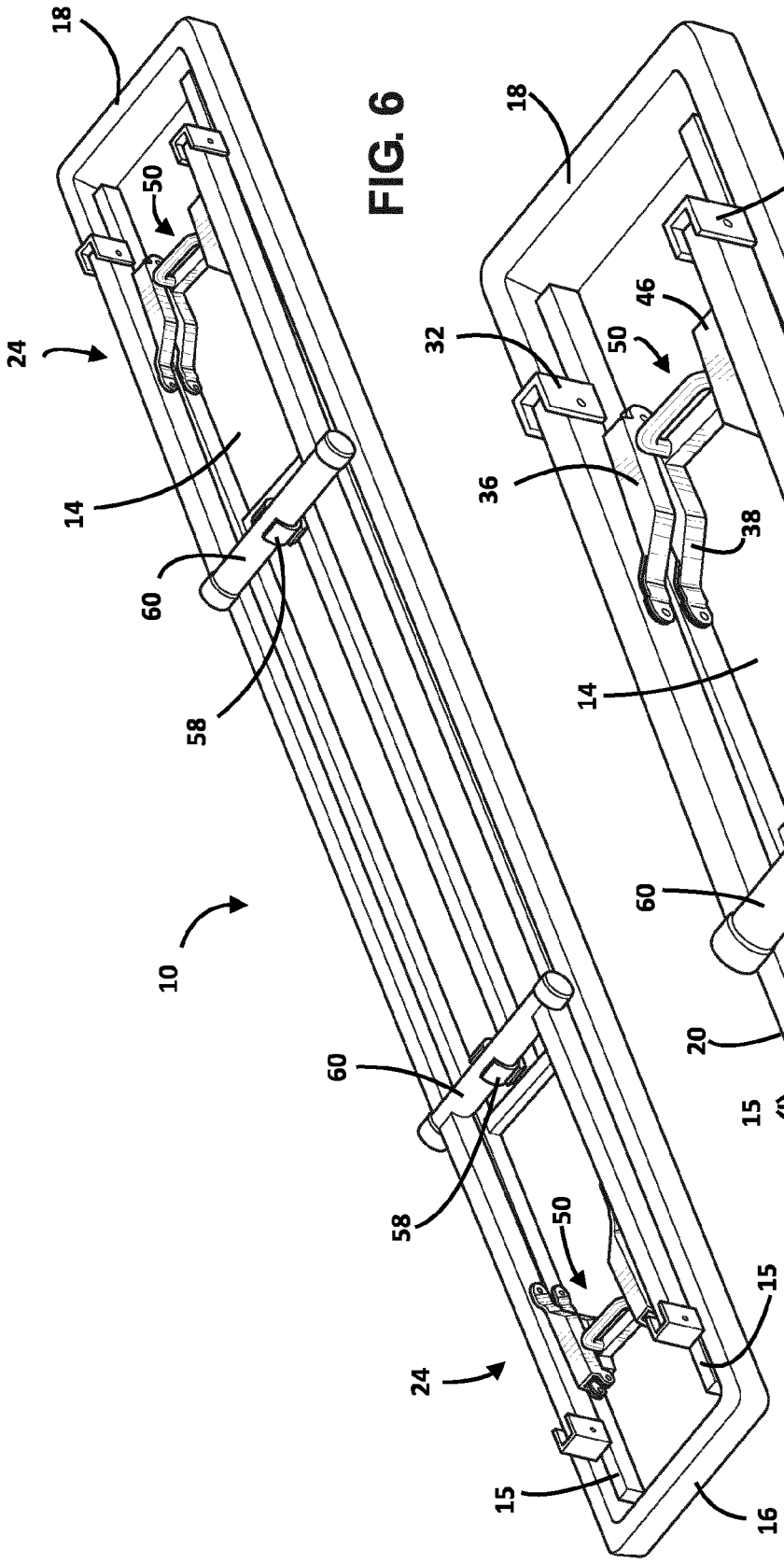
18
50
24
14
60
58
10
60
58
50
24
15
16
15

FIG. 6

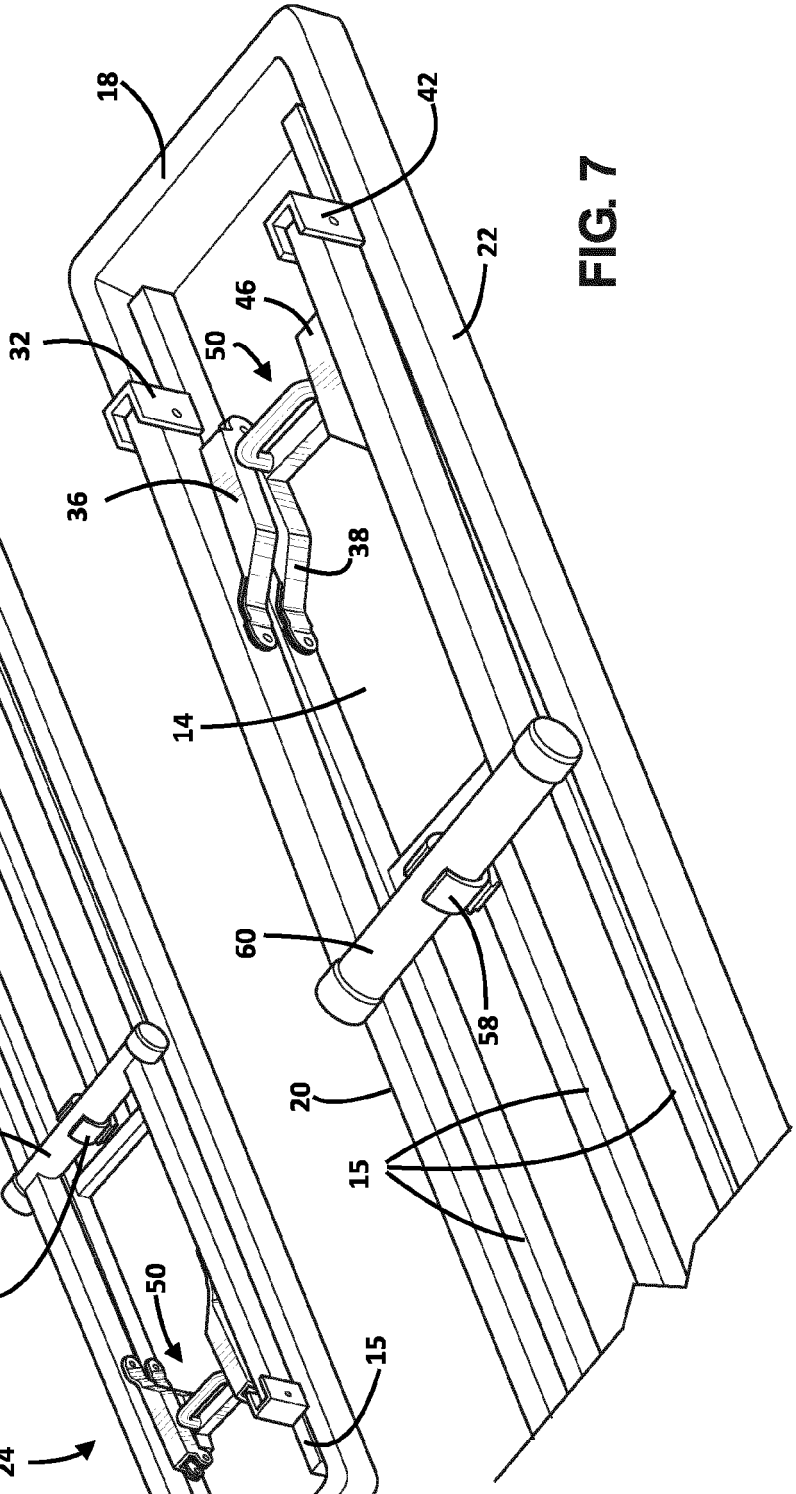
18
42
22
32
46
50
36
38
14
60
58
20
15

FIG. 7

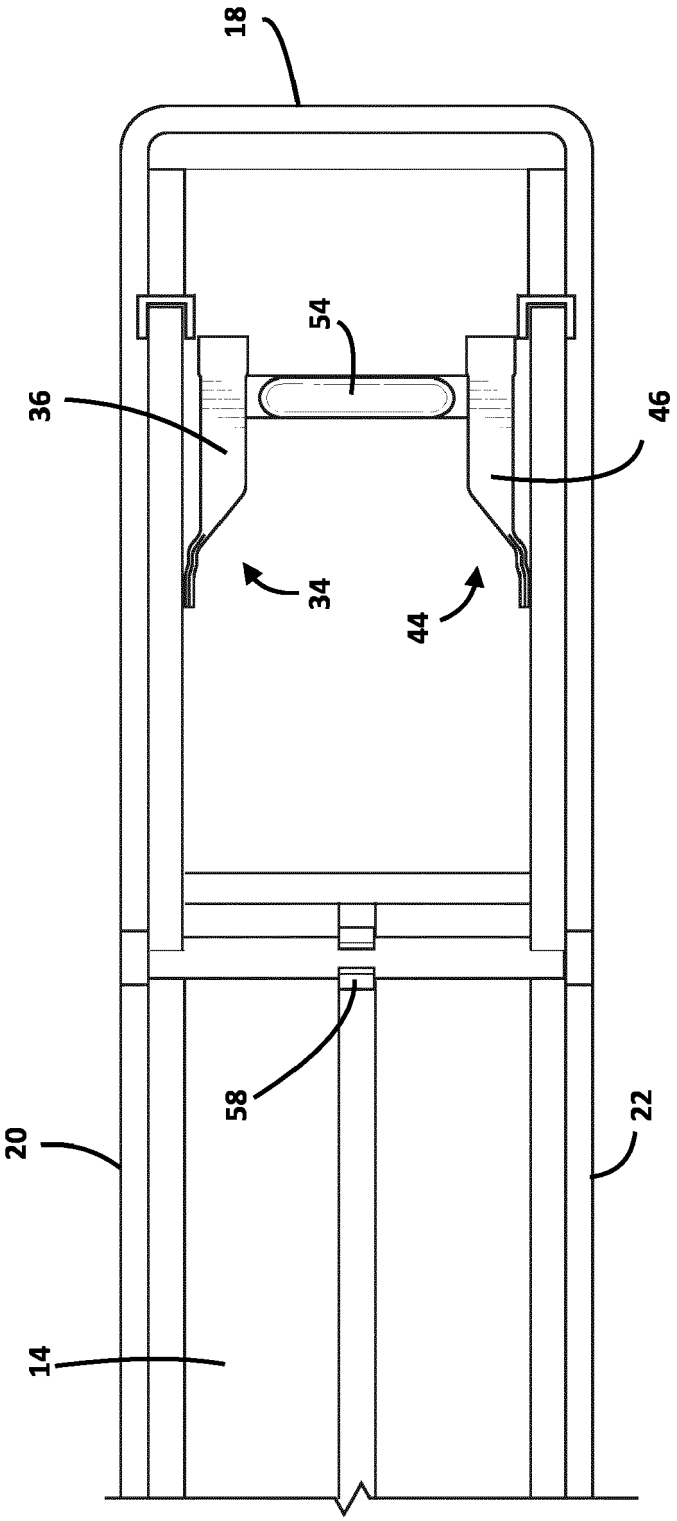

FIG. 8

Europäisches Patentamt
European Patent Office
Office européen des brevets

PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

Application Number
EP 19 16 3370

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 2 959716 B1 (SATO GIKEN KK) 6 October 1999 (1999-10-06) * figures 1-5 * -----	1-7	INV. A47B3/091
X	KR 100 746 965 B1 (DAE SUNG CO LTD [KR]) 1 August 2007 (2007-08-01) * figures 1-7 * -----	1-3,6	
X	KR 2011 0000488 U (ND) 17 January 2011 (2011-01-17) * figures 1-3 * -----	1-3,6	
X	US 5 865 128 A (TARNAY MATT [US]) 2 February 1999 (1999-02-02) * figure 24 * -----	1,2,6	
A	US 8 555 791 B2 (JIN JU-YOUNG [CN]; YIXIAN CAI [CN]; LIFETIME PROD INC [US]) 15 October 2013 (2013-10-15) * figure 3 * -----	4,5	
A	ES 2 637 632 T3 (LIFETIME PROD INC [US]) 13 October 2017 (2017-10-13) * figure 2 * -----	4,5	TECHNICAL FIELDS SEARCHED (IPC) A47B F16B

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

Place of search	Date of completion of the search	Examiner
The Hague	9 July 2019	Ibarrondo, Borja

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P04E07)

Europäisches Patentamt
European Patent Office
Office européen des brevets

INCOMPLETE SEARCH
SHEET C

Application Number
EP 19 16 3370

Claim(s) completely searchable:
1-7

Claim(s) not searched:
8-15

Reason for the limitation of the search:

1.1 Claims 1 and 8 have been drafted as separate independent claims of the same category. Under Article 84 in combination with Rule 43(2) EPC, an application may contain more than one independent claim in a particular category only if the subject-matter claimed falls within one or more of the exceptional situations set out in paragraph (a), (b) or (c) of Rule 43(2) EPC. This is not the case in the present application.
1.2 In reply to the invitation pursuant to Rule 62a(1) EPC, with his letter dated 26.06.2019 the applicant requested a search opinion based on the whole set of claims 1-15, arguing that this is the case of interrelated products under Rule 43(2)(a). However the applicant arguments are not convincing, in particular since the folding leg assemblies disclosed in claim 1 and 8 do not share all the same technical features. The written search opinion is then restricted to the first independent claim and its set of dependent claims 2-7 (Rule 62a(1) EPC).

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 19 16 3370

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-07-2019

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2959716 B1	06-10-1999	JP 2959716 B1	06-10-1999
		JP 2000060645 A	29-02-2000
KR 100746965 B1	01-08-2007	NONE	
KR 20110000488 U	17-01-2011	NONE	
US 5865128 A	02-02-1999	AU 7588998 A	04-01-1999
		US 5865128 A	02-02-1999
		WO 9858564 A1	30-12-1998
US 8555791 B2	15-10-2013	CA 2840744 A1	07-02-2013
		CN 102894651 A	30-01-2013
		CN 202820137 U	27-03-2013
		EP 2736377 A2	04-06-2014
		ES 2649405 T3	11-01-2018
		MX 336878 B	04-02-2016
		US 2013025509 A1	31-01-2013
		WO 2013019597 A2	07-02-2013
ES 2637632 T3	13-10-2017	EP 2701549 A1	05-03-2014
		ES 2637632 T3	13-10-2017

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82