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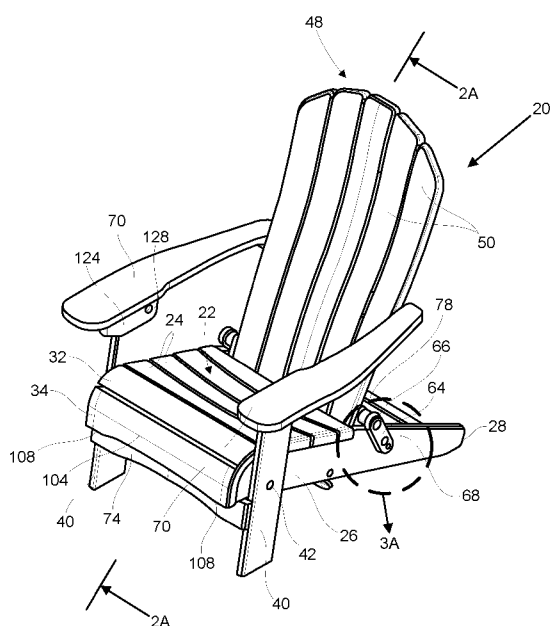


FIG. 1A

(57) Abstract: The disclosure concerns foldable chairs that comprise a seat portion with a pair of rear legs extending backwardly from sides of the seat portion; a pair of front legs each pivotally secured at a middle portion thereof to a front portion of the seat portion; a backrest; a pair of side links, each pivotally extending between a side, bottom portion of the backrest, and a front portion of the rear legs; a pair of armrests each pivotally articulated at a rear end thereof to a middle portion of a side of the backrest and at a front portion each armrest is pivotally coupled to a top portion of a respective front leg; and a footrest displaceable between an extended position and a stowed position, wherein said footrest is slidable between its respective positions along a curved path, and wherein the chair is manipulable between an erect, sitting position, and a folded position, wherein at the folded position the front legs are disposed parallel along side bars of the seat portion, and the backrest extends over the seat portion.

CHAIR

TECHNOLOGICAL FIELD

The present disclosure concerns a chair. More particularly, the disclosure is
5 directed to a foldable chair, and even more particularly, the disclosure concerns an
Adirondack chair.

BACKGROUND ART

References considered to be relevant as background to the presently disclosed
subject matter are listed below:

- 10 - CA2711017;
- US5,911,469;
- US8,814,261; and
- USD704,464

Acknowledgement of the above references herein is not to be inferred as meaning
15 that these are in any way relevant to the patentability of the presently disclosed subject
matter.

BACKGROUND

Folding chairs with which the present disclosure concerns are commonly known
as “Adirondack chairs”, occasionally also known as “Westport plank” chairs, “Muskoka
20 chairs” or “Laurentian chairs”. Such chairs are believed to be first created in 1903, and
have little changed.

CA2711017 discloses a chair provided with a leg support integrated into the seat
on the principle of a horizontal drawer. The chair is provided a handle on the side of the
seat, slide horizontally which allows the leg support to be moved forward or backward.

25 US5,911,469 discloses a folding Adirondack chair that has a collapsed position
and an in-use position. The chair includes a combined seat bottom and rear leg assembly
that is pivotally mounted to the combined seat bottom and rear leg assembly, a front leg
assembly that is pivotally mounted to the combined seat bottom and rear leg assembly,
an armrest assembly that is pivotally mounted to both the seat back assembly and the front
30 leg assembly, and a stop assembly that maintains the chair in the in-use position. The stop

assembly comprises a pair of pivot blocks that are fixedly attached to the pair of rails of the combined seat bottom and rear leg assembly and pivotally connected to the seat back assembly, and a pair of stop blocks that are fixedly attached to the pair of rails of the combined seat bottom and rear leg assembly and extend forwardly from fixed abutment
5 with the pair of pivot blocks to abutment with the pair of front legs of the front leg assembly when the folding Adirondack chair is in the in-use position so as to prevent pivoting of the pair of front legs of the front leg assembly, which by way of the elongated ribs of the armrest assembly, prevents pivoting of the seat back assembly and maintains the folding Adirondack chair in the in-use position.

10 US8,814,261 discloses collapsible chairs and related chair systems, including a base member comprising a seat surface configured to support a user sitting thereon, a back supporting member behind the seat surface configured to support a user's back when a user is seated, and parallel first and second side members each including first and second fulcrums. The first fulcrums connect the side members to the base member disposed
15 therebetween. The second fulcrums connect the side members to the back supporting member disposed therebetween. The side members define a frame within which the back supporting member and the base member may be rotated about their respective fulcrums. The fulcrums allow the chair to be collapsed to a more compact configuration (e.g., for storage).

20 USD704,464 is an ornamental design for a lounge chair.

GENERAL DESCRIPTION

According to the present disclosure there is provided a foldable chair comprising a seat portion with a pair of rear legs extending backwardly from sides of the seat portion; a pair of front legs each pivotally secured at a middle portion thereof to a front portion of
25 the seat portion; a backrest; a pair of side links, each pivotally extending between a side, bottom portion of the backrest, and a front portion of the rear legs; a pair of armrests each pivotally articulated at a rear end thereof to a middle portion of a side of the backrest and at a front portion each armrest is pivotally coupled to a top portion of a respective front leg; and a footrest displaceable between an extended position and a stowed position,
30 wherein said footrest is slidable between its respective positions along a curved path, and wherein the chair is manipulable between an erect, sitting position, and a folded position,

wherein at the folded position the front legs are disposed parallel along side bars of the seat portion, and the backrest extends over the seat portion.

Any one or more of the following features, designs and configuration can be applied to any one or more of the aspects and embodiments of the present disclosure,
5 separately or in various combinations thereof:

- The backrest can be reclinable between at least two positions, wherein a fore end of each armrest is configured with a plurality of arresting recesses selectively engageable with a positioning pin fixed at a top portion of each front leg, and wherein the backrest pivots about the backrest arresting arrangement;
- 10 • The rear legs can be configured at a front portion thereof with a backrest arresting arrangement for pivotally arresting a bottom pivot of the backrest at the sitting position and however released at the folded position;
- At the folded position a bottom end of each front leg faces backwards, in direction of the rear leg;
- 15 • A backrest arresting arrangement can be configured as a socket disposed at a front portion of the rear legs, configured for partially cradling pivot pins projecting sideways at a bottom portion of the backrest;
- The pivot pins of the backrest coaxially extend with a pivot axle of the side link articulated to the backrest;
- 20 • The bottom edge of the backrest is floating, whereby at the folded position it disengages from an arresting rear edge portion of the seat portion, and the floating side link swings backwards, whereby the pivot pins of the backrest disengage from the sockets;
- A bottom edge of the backrest can be supported over a rear edge portion
25 of the seat portion;
- An inside face of each side bar of the seat portion is configured with an arc-shaped reses slidably accommodating a curved guide rail laterally projecting along side edges of the footrest;
- At the extended position a front bottom edge of the footrest can reach a
30 bottom end of the front legs;
- At the extended position of the footrest a front portion of the seat portion overlaps over a rear portion of the footrest;

- The footrest can be configured, at a fore portion thereof, with a support leg for elevating a fore end of the footrest at the extended position;
- At the stowed position the support leg of the footrest is collapsed backwards and is fully received within a space below the footrest;
- 5 • At the stowed position a front edge of the footrest can extend flush over a front surface of the seat portion;
- At the stowed position a front edge of the footrest can extend flush within a front surface of the seat portion;
- A first locking arrangement can be provided for arresting the chair at the
10 folded position, whereby at the folded position a first safety pin is insertable through at least one of the front legs and through a neighboring side bar of the seat portion, thereby preventing the chair from unfolding;
- At the sitting position the first safety pin of the first locking arrangement is insertable through the side leg and through a front portion of the neighboring
15 side bar of the seat portion, thereby preventing the chair from folding;
- A second locking arrangement can be provided for arresting the chair at the sitting position, whereby a second safety pin is insertable through a bottom end of at least one of the side links and through a front portion of a neighboring rear leg, thereby preventing the chair from folding;
- 20 • At the folded position the second safety pin of the second locking arrangement is insertable through a side portion of the stowed footrest, thereby preventing the footrest from sliding into an extended position;
- The first safety pin and the second safety pin can be secured by a tie down cable to the chair;
- 25 • The front legs can be fixedly secured at a spaced-apart relation by a front bar extending at a front portion of the front legs, below the support seat;
- The rear legs can be fixedly secured at a spaced-apart relation by a rear bar extending at a rear portion of the rear legs;
- The footrest can be ergonomically designed and has a curved cross
30 section;
- At the extended position the footrest smoothly coextends with the seat portion;

- The side bars of the seat portion are coextensive with the rear legs;
 - The rear legs are uniform with the side bars of the seat portion;
 - A seating surface of the seat portion is integral with the side bars of the seat portion;
- 5
- The seat portion comprises a pair of side bars and the rear legs are coextensive with said side bars;
 - The chair is made of polymeric material;
 - The chair is made of recycled material;
 - The chair has the appearance of natural wood;
- 10
- At the sitting position of the chair, a bottom edge of the backrest is supported over a rear edge portion of the seat portion and at the folded position the bottom edge of the backrest disengages from the rear edge portion of the seat portion, and the floating link swings backwards, whereby the pivot pins disengage from the sockets.

15 BRIEF DESCRIPTION OF THE DRAWINGS

In order to better understand the subject matter that is disclosed herein and to exemplify how it may be carried out in practice, embodiments will now be described, by way of non-limiting example only, with reference to the accompanying drawings, in which:

- 20
- Fig. 1A** is a front perspective view of a chair according to the present disclosure;
 - Fig. 1B** is a rear perspective view of the chair of Fig. 1A;
 - Fig. 1C** is a bottom perspective view of the chair of Fig. 1A, with the backrest at an upright position;
 - Fig. 2A** is a section along line 2A – 2A in Fig. 1A;
- 25
- Fig. 2B** is a planar side view of Fig. 2A;
 - Fig. 3A** is an enlargement of the portion marked 3A in Fig. 1A;
 - Fig. 3B** is the same as Fig. 3A, however with a side link removed for sake of clarification;
 - Fig. 4A** is a perspective view of the chair according to the present disclosure, with
- 30
- its footrest at an extended position;
 - Fig. 4B** is a section along line 4B – 4B in Fig. 4A;
 - Fig. 4C** is a bottom view of Fig. 4B;

Fig. 5A is the same as Fig. 4A, however with a support leg of the footrest at a deployed position;

Fig. 5B is section along line 5B – 5B in Fig. 5A;

Fig. 6A is a side view of the chair subject of the present disclosure, with the
5 backrest at an intermediate reclined position;

Fig. 6B is a section through the chair of Fig. 6A;

Fig. 7A is a side view of the chair subject of the present disclosure, with the
backrest at a third reclined position;

Fig. 7B is a section through the chair of Fig. 7A;

10 **Fig. 8A** is a front, top perspective view of the chair subject of the present
disclosure, at a folded position;

Fig. 8B is a side view of Fig. 8A;

Fig. 8C is a planar side view, section along line 8C – 8C in Fig. 8A;

Fig. 9A is a rear, top perspective view of the chair subject of the present
15 disclosure, at a folded position;

Fig. 9B is a section along line 9B – 9B in Fig. 9A;

Fig. 9C is an enlargement of the portion marked 9C in Fig. 9B;

Fig. 9D is a rear, bottom perspective view of the chair subject of the present
disclosure, at a folded position;

20 **Fig. 9E** is a section along line 9E – 9E in Fig. 9A;

Fig. 10A is a right side, rear perspective view of the chair subject of the present
disclosure, at a folded position;

Fig. 10B is a section along line 10B – 10B in Fig. 10A;

Fig. 10C is a section along line 10C – 10C in Fig. 10A; and

25 **Fig. 10D** is an enlargement of the portion marked 10D in Fig. 10C.

DETAILED DESCRIPTION OF EMBODIMENTS

Attention is first directed to Figs. 1A-1C, directed to a folding chair according to an example of the present disclosure, generally designated **20**. The chair **20** is a so-called “Adirondack chair” made of molded plastic material.

30 The chair **20** comprises a seat portion **22** having a plurality of slats **24** integrally molded over a pair of side bars **26** with a pair of rear legs **28** integrally and coextensively extending backwardly from of the side bars **26**. The seat portion **28** has an ergonomic

cross section, i.e. a concavity (seen for example in Figs. 2A and 2B). A front portion of the seat portion is rounded and is configured with a front rounded slat **32** and a downward extending slat like end member **34**, to be discussed hereinafter in greater detail.

The chair **20** further comprises a pair of front legs **40**, each pivotally secured at a middle portion **42** thereof to a front portion of the side bars **26** of the seat portion **22**. A backrest **48** is monoblock molded and comprises a plurality of integral back slats **50**, ergonomically shaped (best seen in Figs. 6B and 7A). The backrest **48** is linked at a bottom portion of each respective side thereof to a floating side link **64**, wherein each side link is pivotally coupled by pivot axle **66** to a side, bottom portion of the backrest **48**, and pivotally coupled at **68** to a front portion of each of the rear legs **28**.

The chair **20** is further configured with a pair of armrests **70**, each pivotally articulated at a rear end thereof **72** to a middle portion of a side of the backrest **48**, and at a front portion each armrest **70** is pivotally coupled to a top portion of a respective front leg **40**, as will be discussed herein below.

The front legs **40** are fixedly secured to one another at a spaced-apart relation by a front bar **74** extending at a front portion of the front legs **40** and below the side bars **26** of seat portion **28**. Likewise, the rear legs **28** are fixedly secured at a spaced-apart relation by a rear bar **78** extending at a rear portion of the rear legs **28**.

As can be seen, best in Figs. 3A and 3B, a backrest arresting arrangement is configured for pivotally supporting a bottom end of the backrest **48**, said backrest arresting arrangement comprises a socket **80** disposed at a top, front portion of each of the rear legs **28**, said socket **80** configured for partially cradling pivot pins **82** projecting laterally (sideways) at a bottom portion of the backrest **48**, whereby the backrest **48** is pivotable thereabout. The arrangement is such that the pivot pins **82** of the backrest **48** coaxially extend with a pivot axle **66** of the side link **64** articulated to the backrest **48**.

It is further seen that at a sitting position of the chair **20**, a bottom edge **25** of the backrest **48** is supported over a rear edge portion **27** of the seat portion **22** (Figs. 2A, 2B, 4B, 5B, 6B and 7B).

Chair **20** further comprises a curved (arched) footrest **90**, configured at its respective sides with a laterally projecting curved guide rail **94** (Fig. 5A) curved in conformity with the curved footrest **90**, and with a recess **98** (Figs. 4C and 5B) extending at an inside face **26_i** of each of the side bars **26**, below the slats **24** of seat portion **22**, whereby the footrest **90** is slidably displaceable along a correspondingly curved path

between a stowed position (Figs. 1A-1C, 2A, 2B, 6A, 6B, 7C) and an extended position (Figs. 4A-5B).

The footrest **90** is also a monoblock molded element comprising a plurality of slats **102**, wherein a front-most slat **104** faces downward such that at the extended position
5 a bottom edge of said slat **104** engages a floor surface (not shown) and supports a front end of the footrest **90**. It can be seen that a bottom edge of the slat **104** is configured with two ground engaging portions **108** at end portions thereof. At the stowed position, the footrest **90** is fully received under the seat portion **22**, wherein the front slat **104** extends
10 slat **108** is flush and compliments the ergonomic shape of the front portion of seat portion **22**.

When the footrest **90** is at the extended position, it is coextensive and continuous with the ergonomic shape of the seat portion **22**.

Optionally, at the extended position of footrest **90**, its front portion can be elevated
15 by a support leg **116** (Figs. 5A and 5B) pivotally articulated at a fore end **118** of the footrest, and however wherein at the stowed position said support leg **116** is folded and is fully received within a space **120** below the footrest **90** (as seen in Fig. 6B), so as not to obstacle free sliding displacement of the footrest **90**.

The backrest **48** is pivotally reclinable between several positions (three in the
20 illustrated example). Accordingly, a fore end of each armrest **70** is configured with a front leg arresting portion **124** configured in turn with a plurality (three) arresting recesses **126i**, **126ii** and **126iii**, selectively engageable with a positioning pin **128** fixed at a top portion of each front legs **40**. Changing the angle of reclination of the backrest **48** takes place by elevating the front end of the armrests **70** (in direction of arrow **130** in Fig. 6A) and
25 pulling/pushing the armrest **70** with the backrest **48** articulated thereto, wherein the backrest pivots about the backrest arresting arrangement into the desired position, and then lowering the front end of the armrests **70** so that positioning pin **128** re-arrests within a respective one of arresting recesses **126i**, **126ii** and **126iii**. In Figs. 6A and 6B the back rest is illustrated at an intermediate reclined position, wherein positioning pin **128** is
30 arrested by recess **126ii**. In Figs. 7A and 7B the back rest is illustrated at a rear-most reclined position, wherein positioning pin **128** is arrested by recess **126i**. Likewise, in Fig. 1C the back rest **48** is illustrated at a front-most position, wherein positioning pin **128** is arrested by recess **126iii**.

The chair **20** is manipulable between an erect, sitting position, and a folded position (Figs. 8A-8C and 9A-9E), wherein at the folded position the front legs **40** are disposed parallel along side bars **26** of the seat portion **22**, with bottom end **136** of each front leg faces backwards, in direction of the rear leg **28**, and the backrest **48** extends over the seat portion **22**.

Folding the chair is carried out by first displacing the footrest **90** into the stowed position, and disengaging the first locking arrangement and second locking arrangement, as will be discussed hereinafter. Then, backrest **48** is pivotally tilted forward, in direction of arrow **140** (Fig. 7A), resulting in the front legs **40** pivoting in the same direction (as illustrated by arrow **142** in Fig. 7A), until reaching the fully collapsed/folded position (Figs. 8A-8C). Erecting the chair **20** into its sitting position takes place in a reverse operation, namely the backrest is pivotally displaced in direction opposing that of arrow **140**.

It is noted (Fig. 8A-8C) that at the folded position the bottom edge **25** of the backrest **48** disengages from the rear edge portion **27** of the seat portion **22**, and the floating link **64** swings backwards, whereby the pivot pins **82** disengage from the sockets **80**.

With further reference made to Figs. 9A to 10D, it is seen that the chair **20** is further configured with a first locking arrangement generally designated **150** and a second locking arrangement generally designated **170**. The first locking arrangement **150** is configured for arresting the chair at the folded position, whereby at the folded position a first safety pin **152** is insertable through at least one of the front legs **40** and through a neighboring side bar **26** of the seat portion **22**, thereby preventing the chair **20** from unintentional unfolding.

At the sitting position the first safety pin **152** of the first locking arrangement **150** is insertable through the side leg **40** and through a front portion of the neighboring side bar **26** of the seat portion **22**, thereby preventing the chair from unintentional folding.

The second locking arrangement **170** is provided for arresting the chair **20** at the sitting position, whereby a second safety pin **172** is insertable through a bottom end of at least one of the side links **64** and through a front portion of a neighboring rear leg **26**, thereby preventing the chair from unintentional folding. At the folded position the second safety pin **172** of the second locking arrangement **170** is insertable through a side portion

of the stowed footrest **90**, thereby preventing the footrest from unintentional sliding into an extended position.

The first safety pin **152** and the second safety pin **172** are each secured to a portion of the chair by tie down cables **160**.

CLAIMS:

1. A foldable chair comprising a seat portion with a pair of rear legs extending backwardly from sides of the seat portion; a pair of front legs each pivotally secured at a middle portion thereof foldable chair to a front portion of the seat portion; a backrest; a
5 pair of side links, each pivotally extending between a side, bottom portion of the backrest, and a front portion of the rear legs; a pair of armrests each pivotally articulated at a rear end thereof to a middle portion of a side of the backrest and at a front portion each armrest is pivotally coupled to a top portion of a respective front leg; and a footrest displaceable between an extended position and a stowed position, wherein said footrest is slidable
10 between its respective positions along a curved path, and wherein the chair is manipulable between an erect, sitting position, and a folded position, wherein at the folded position the front legs are disposed parallel along side bars of the seat portion, and the backrest extends over the seat portion.
2. The foldable chair of claim 1, wherein the backrest is reclinable between at least
15 two positions, wherein a fore end of each armrest is configured with a plurality of arresting recesses selectively engageable with a positioning pin fixed at a top portion of each front leg, and wherein the backrest pivots about the backrest arresting arrangement.
3. The foldable chair of claim 1, wherein the rear legs are configured at a front portion thereof with a backrest arresting arrangement for pivotally arresting a bottom
20 pivot of the backrest at the sitting position and however released at the folded position.
4. The foldable chair of claim 1, wherein, at the folded position, a bottom end of each front leg faces backwards, in direction of the rear leg.
5. The foldable chair of claim 1, further comprising a backrest arresting arrangement in the form of a socket disposed at a front portion of the rear legs, and configured for
25 partially cradling pivot pins projecting sideways at a bottom portion of the backrest.
6. The foldable chair of claim 5, wherein the pivot pins of the backrest coaxially extend with a pivot axle of the side link articulated to the backrest.
7. The foldable chair of claim 5, wherein the bottom edge of the backrest is floating, whereby at the folded position it disengages from an arresting rear edge portion of the
30 seat portion, and the floating side link swings backwards, whereby the pivot pins of the backrest disengage from the sockets.
8. The foldable chair of claim 1, wherein a bottom edge of the backrest is supported over a rear edge portion of the seat portion.

9. The foldable chair of claim 1, wherein an inside face of each side bar of the seat portion is configured with an arc-shaped reses slidingly accommodating a curved guide rail laterally projecting along side edges of the footrest.
10. The foldable chair of claim 1, wherein at the extended position a front bottom edge of the footrest reaches a bottom end of the front legs.
11. The foldable chair of claim 1, wherein, at the extended position of the footrest, a front portion of the seat portion overlaps over a rear portion of the footrest.
12. The foldable chair of claim 1, wherein the footrest is configured, at a fore portion thereof, with a support leg for elevating a fore end of the footrest at the extended position.
13. The foldable chair of claim 12, wherein, at the stowed position, the support leg of the footrest is collapsed backwards and is fully received within a space below the footrest.
14. The foldable chair of claim 1, wherein, at the stowed position, a front edge of the footrest extends flush over a front surface of the seat portion.
15. The foldable chair of claim 1, wherein, at the stowed position, a front edge of the footrest extend flush within a front surface of the seat portion.
16. The foldable chair of claim 1, wherein a first locking arrangement is provided for arresting the chair at the folded position, whereby at the folded position a first safety pin is insertable through at least one of the front legs and through a neighboring side bar of the seat portion, thereby preventing the chair from unfolding.
17. The foldable chair of claim 16, wherein at the sitting position the first safety pin of the first locking arrangement is insertable through the side leg and through a front portion of the neighboring side bar of the seat portion, thereby preventing the chair from folding.
18. The foldable chair of claim 1, wherein a second locking arrangement is provided for arresting the chair at the sitting position, whereby a second safety pin is insertable through a bottom end of at least one of the side links and through a front portion of a neighboring rear leg, thereby preventing the chair from folding.
19. The foldable chair of claim 18, wherein, at the folded position, the second safety pin of the second locking arrangement is insertable through a side portion of the stowed footrest, thereby preventing the footrest from sliding into an extended position.
20. The foldable chair of claim 1, wherein the front legs are fixedly secured at a spaced-apart relation by a front bar extending at a front portion of the front legs, below the side bars of the seat portion.

21. The foldable chair of claim 1, wherein the rear legs are fixedly secured at a spaced-apart relation by a rear bar extending at a rear portion of the rear legs.
22. The foldable chair of claim 1, wherein the footrest is ergonomically designed and has a curved cross section.
- 5 23. The foldable chair of claim 1, wherein at the extended position the footrest smoothly coextends with the seat portion.
24. The foldable chair of claim 1, wherein the side bars of the seat portion are coextensive with the rear legs.
25. The foldable chair of claim 1, wherein the rear legs are uniform with the side bars
10 of the seat portion.
26. The foldable chair of claim 1, wherein a seating surface of the seat portion is integral with the side bars of the seat portion.
27. The foldable chair of claim 1, wherein the seat portion comprises a pair of side bars and the rear legs are coextensive with said side bars.
- 15 28. The foldable chair of claim 1, wherein the chair is made of polymeric material.
29. The foldable chair of claim 28, wherein the chair is made of recycled material.
30. The foldable chair of claim 28, wherein the chair has the appearance of natural wood.
31. The foldable chair of claim 7, wherein, at the sitting position of the chair, a bottom
20 edge of the backrest is supported over a rear edge portion of the seat portion and at the folded position the bottom edge of the backrest disengages from the rear edge portion of the seat portion, and the link swings backwards, whereby the pivot pins disengage from the sockets.

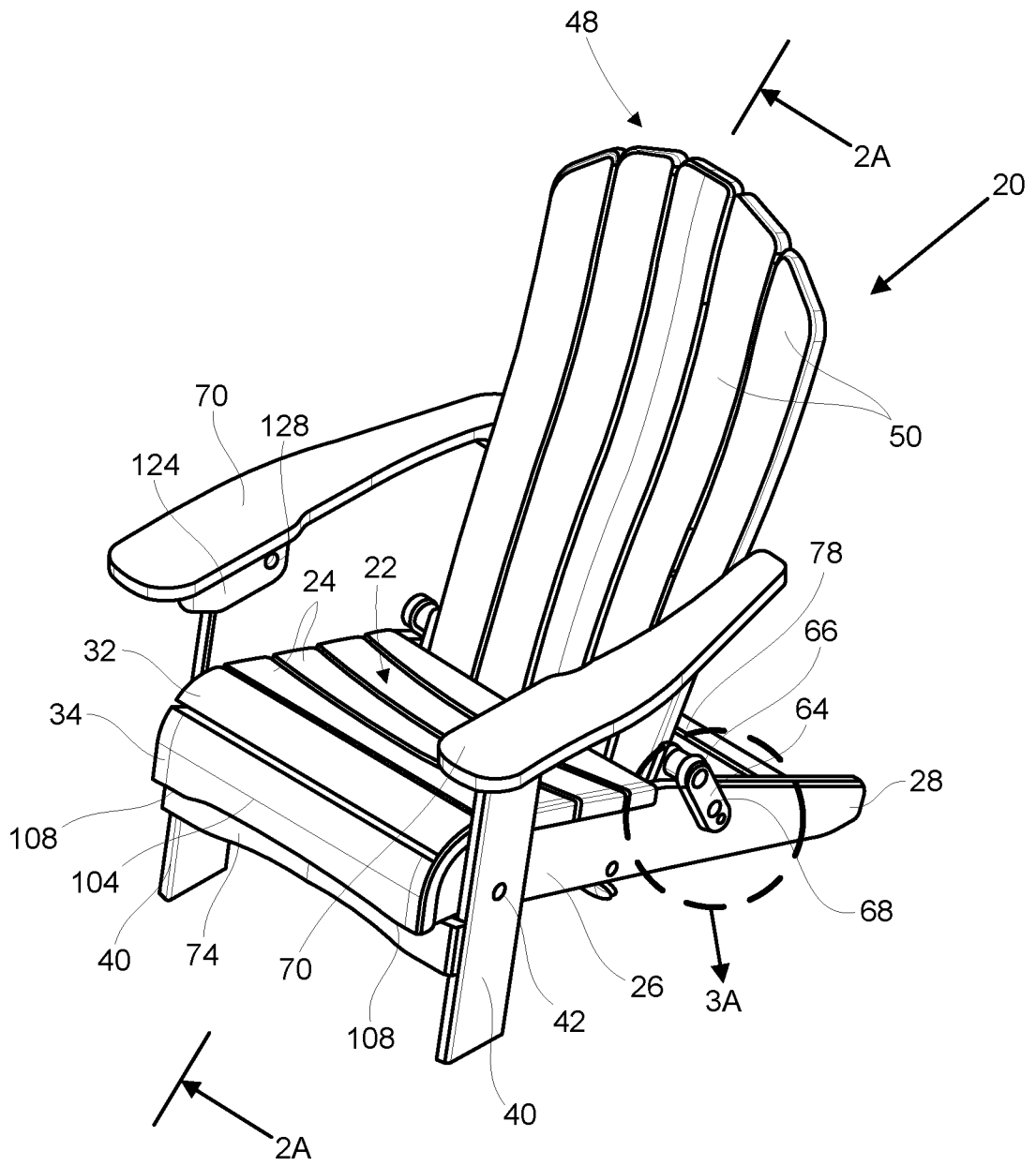


FIG. 1A

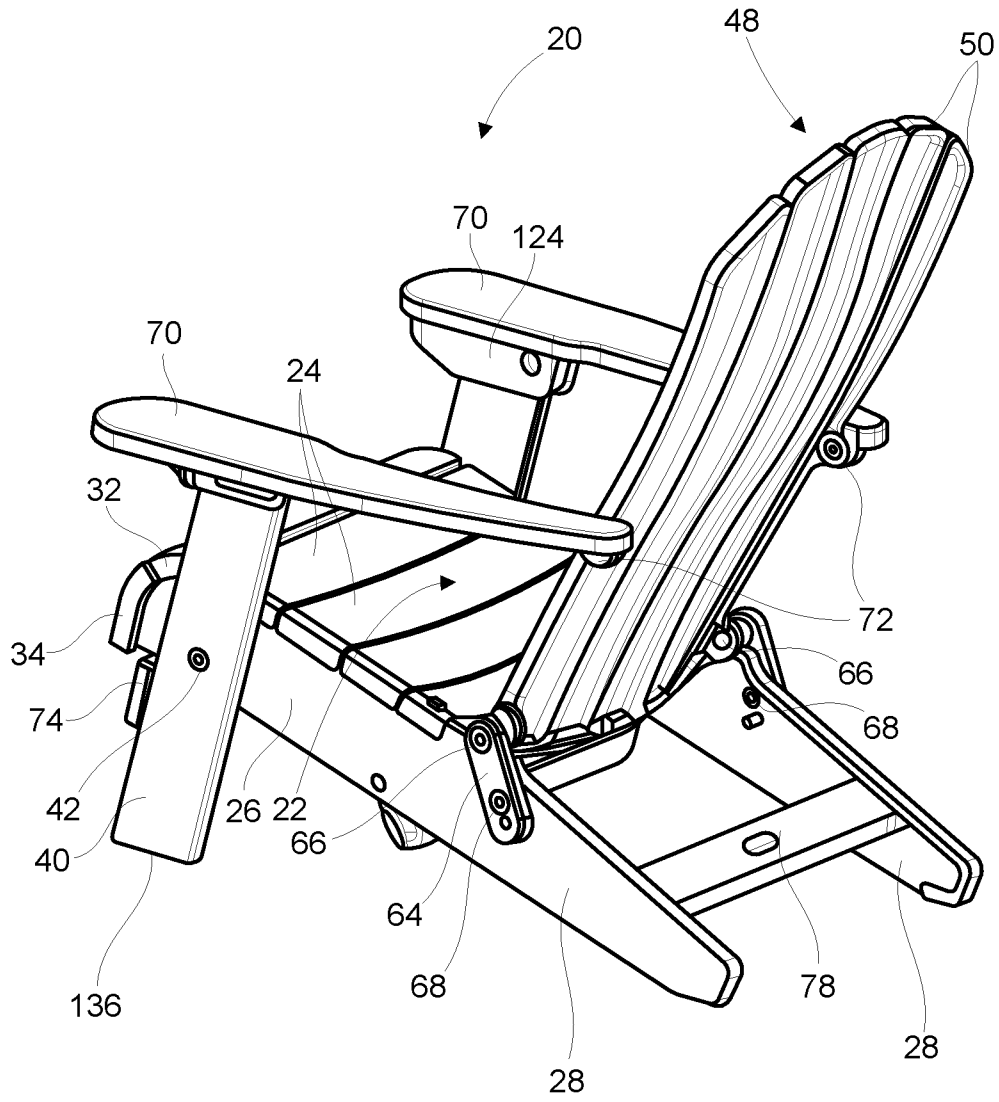


FIG. 1B

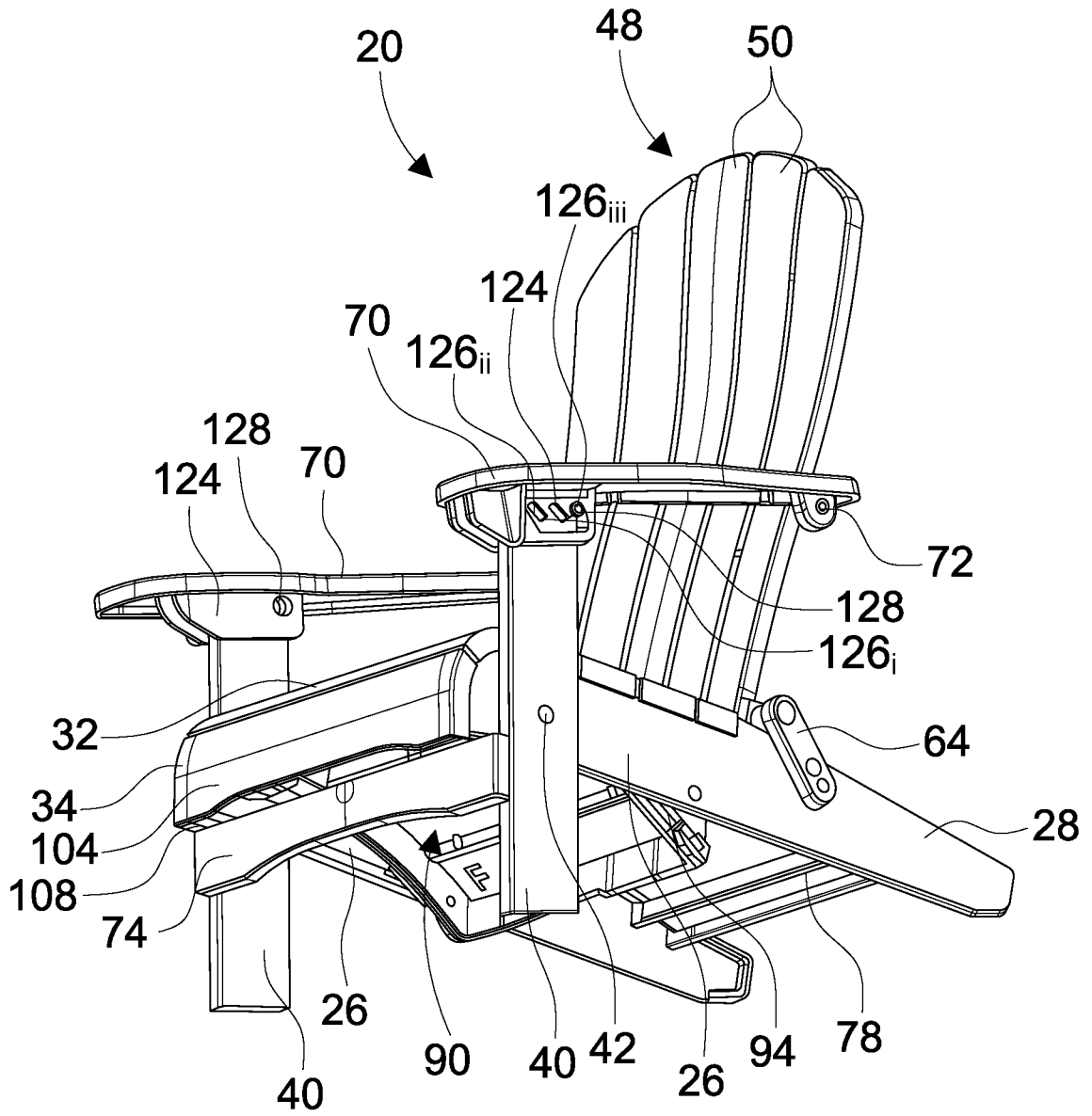


FIG. 1C

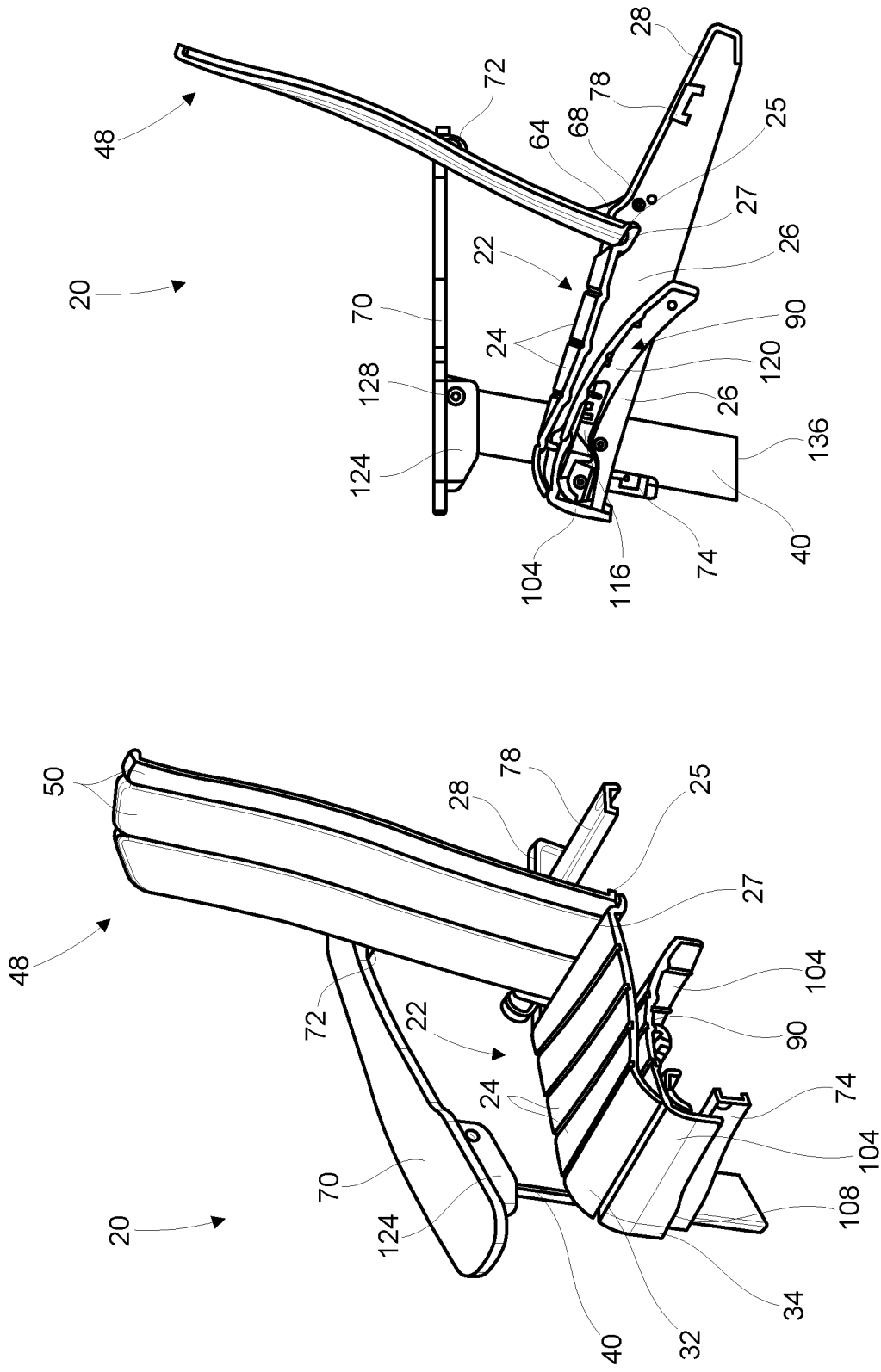


FIG. 2B

FIG. 2A

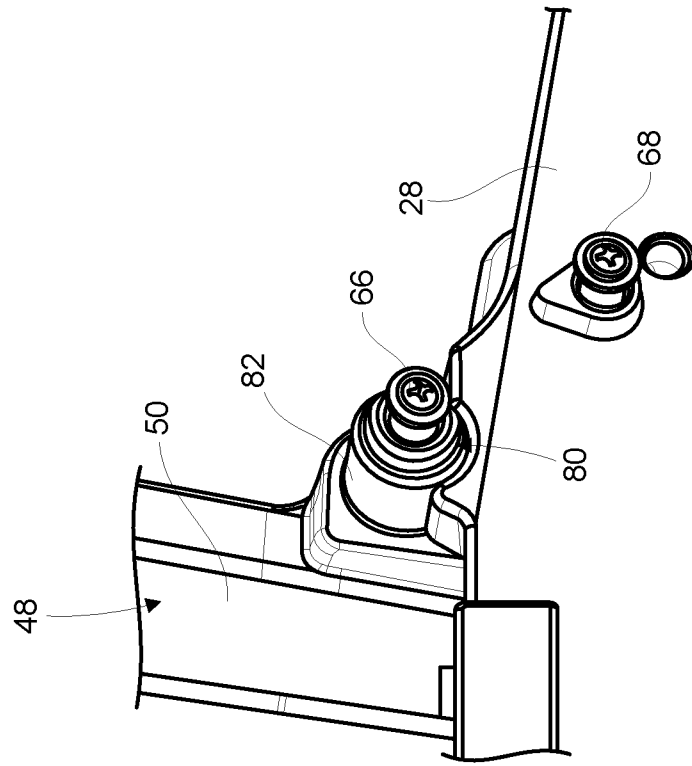


FIG. 3B

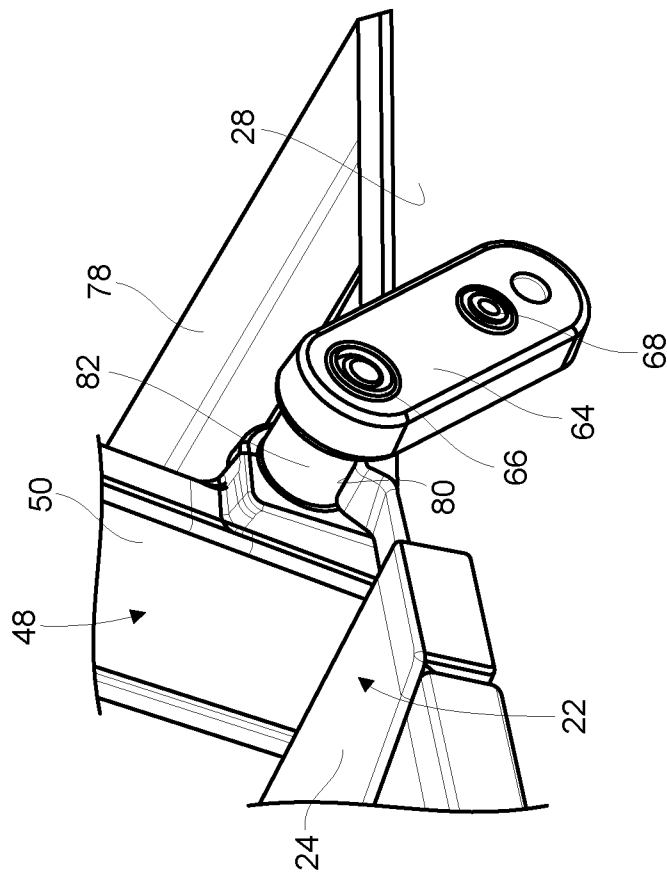


FIG. 3A

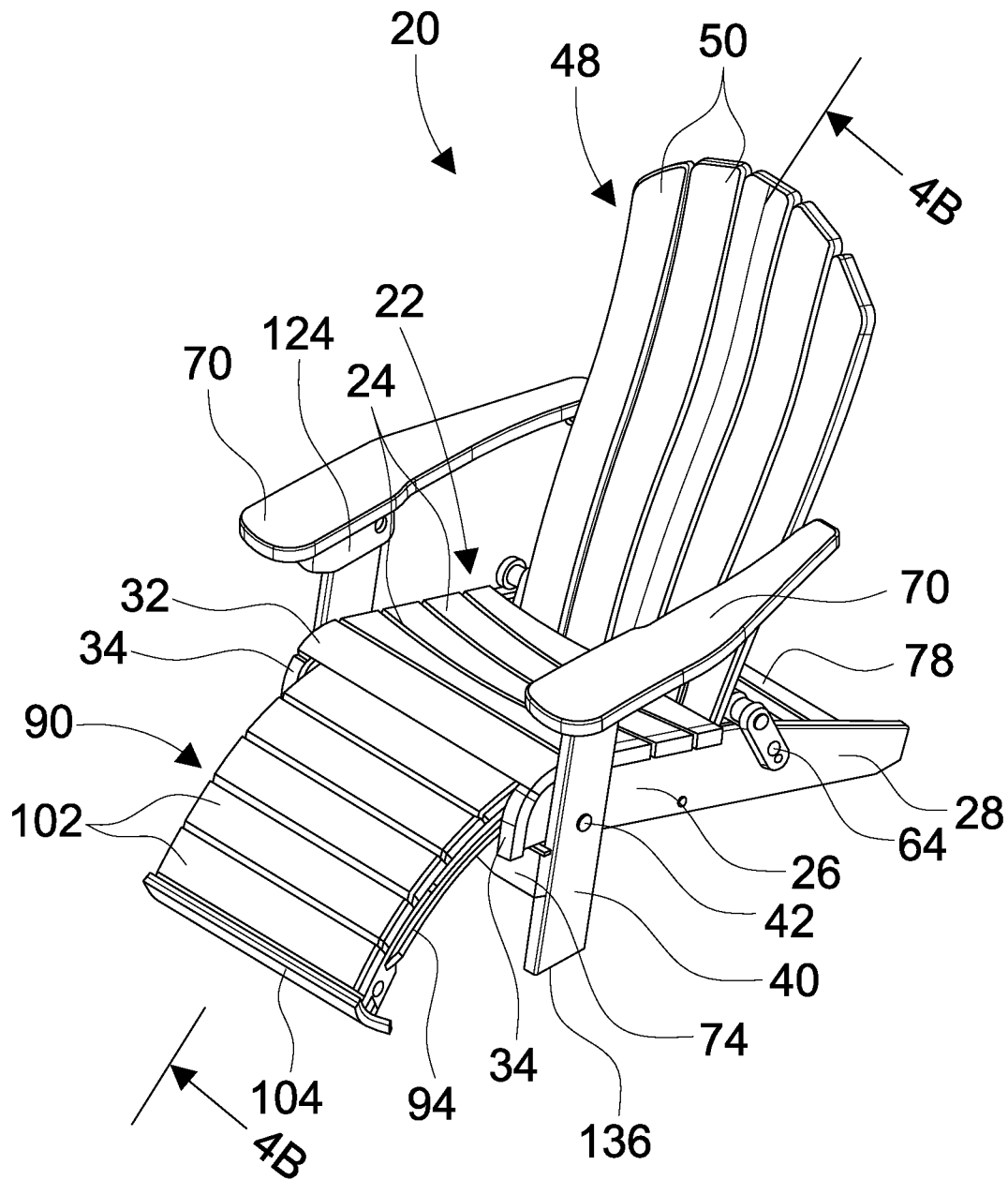


FIG. 4A

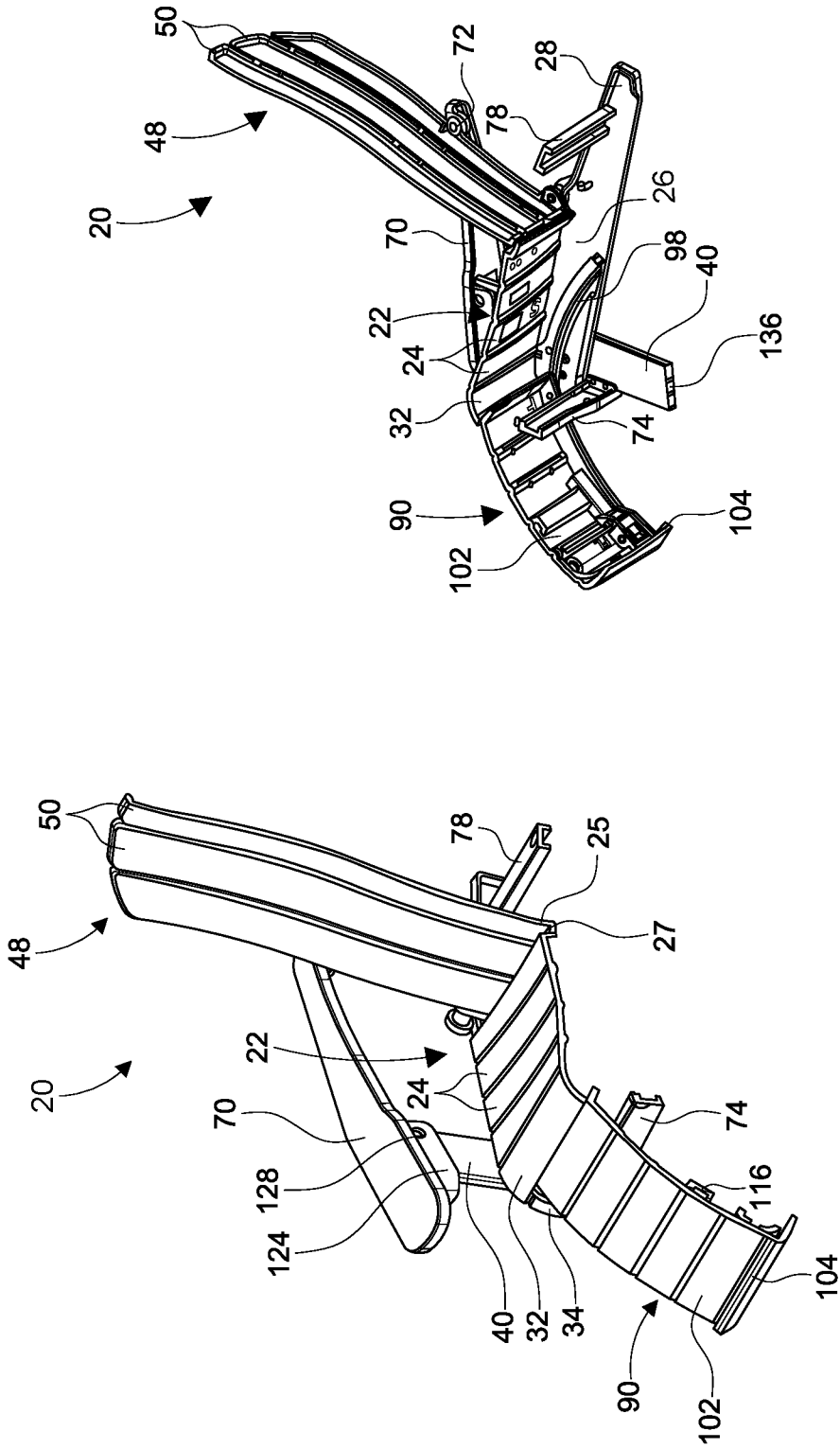


FIG. 4C

FIG. 4B

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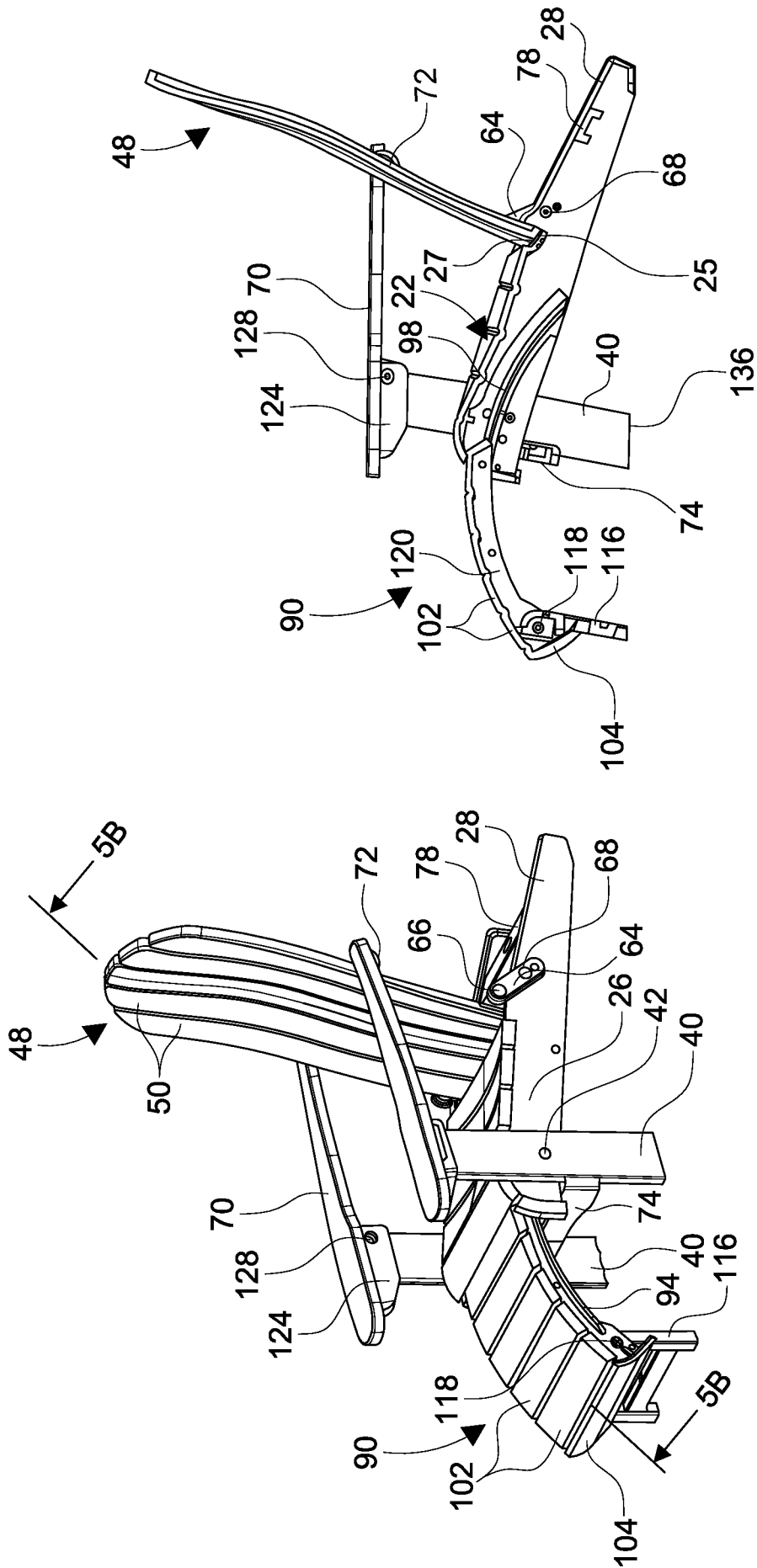


FIG. 5B

FIG. 5A

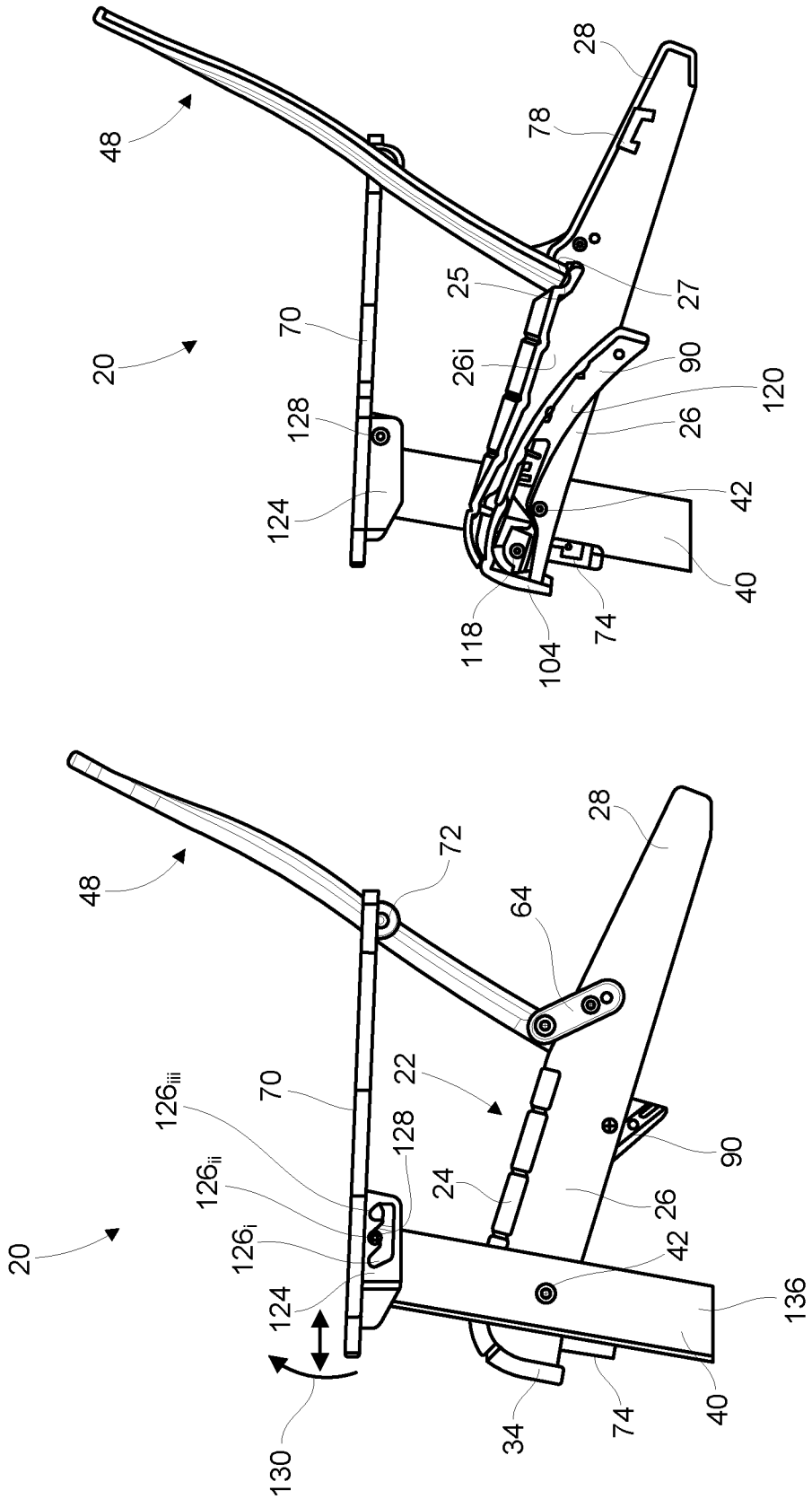


FIG. 6B

FIG. 6A

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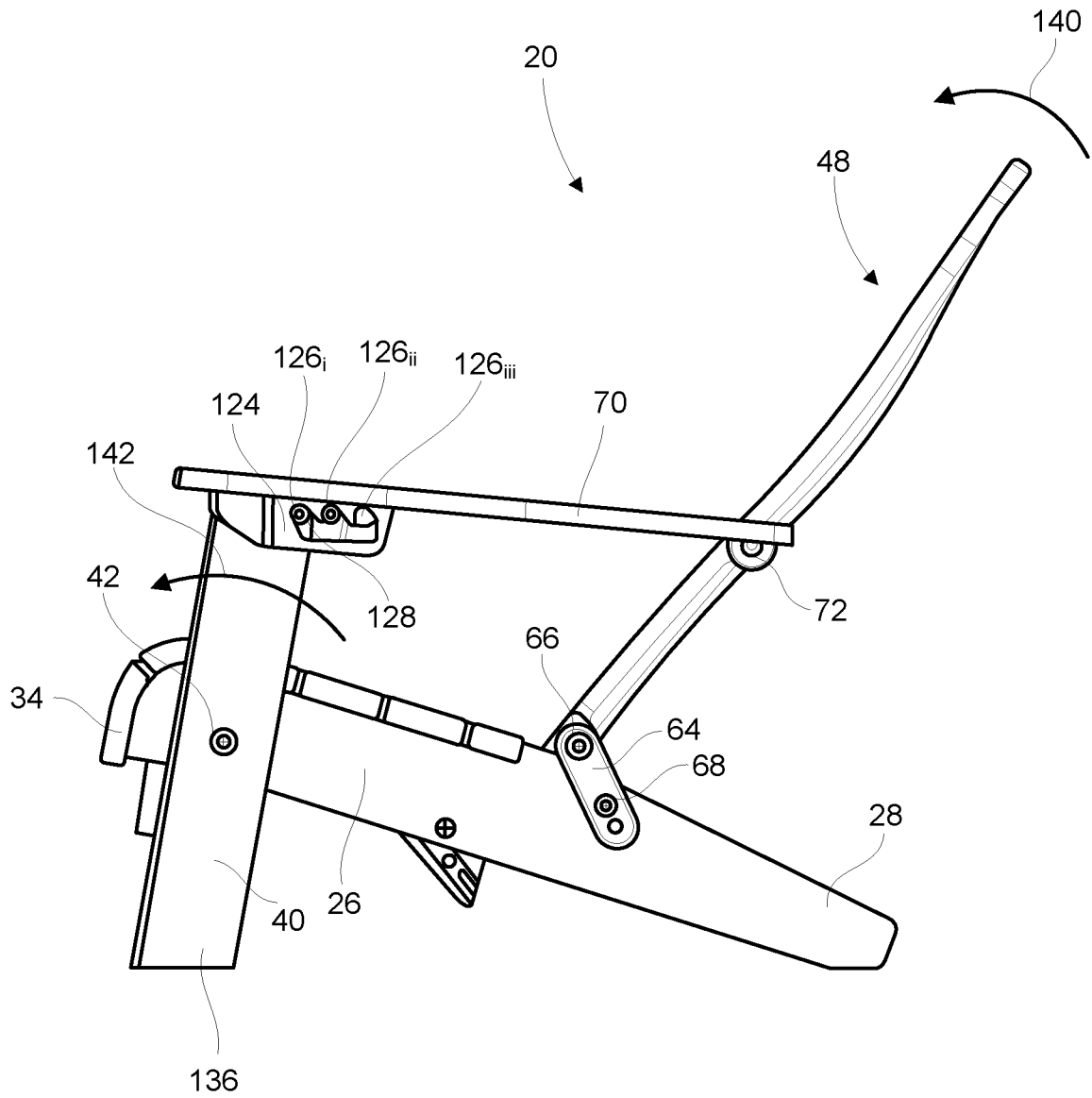


FIG. 7A

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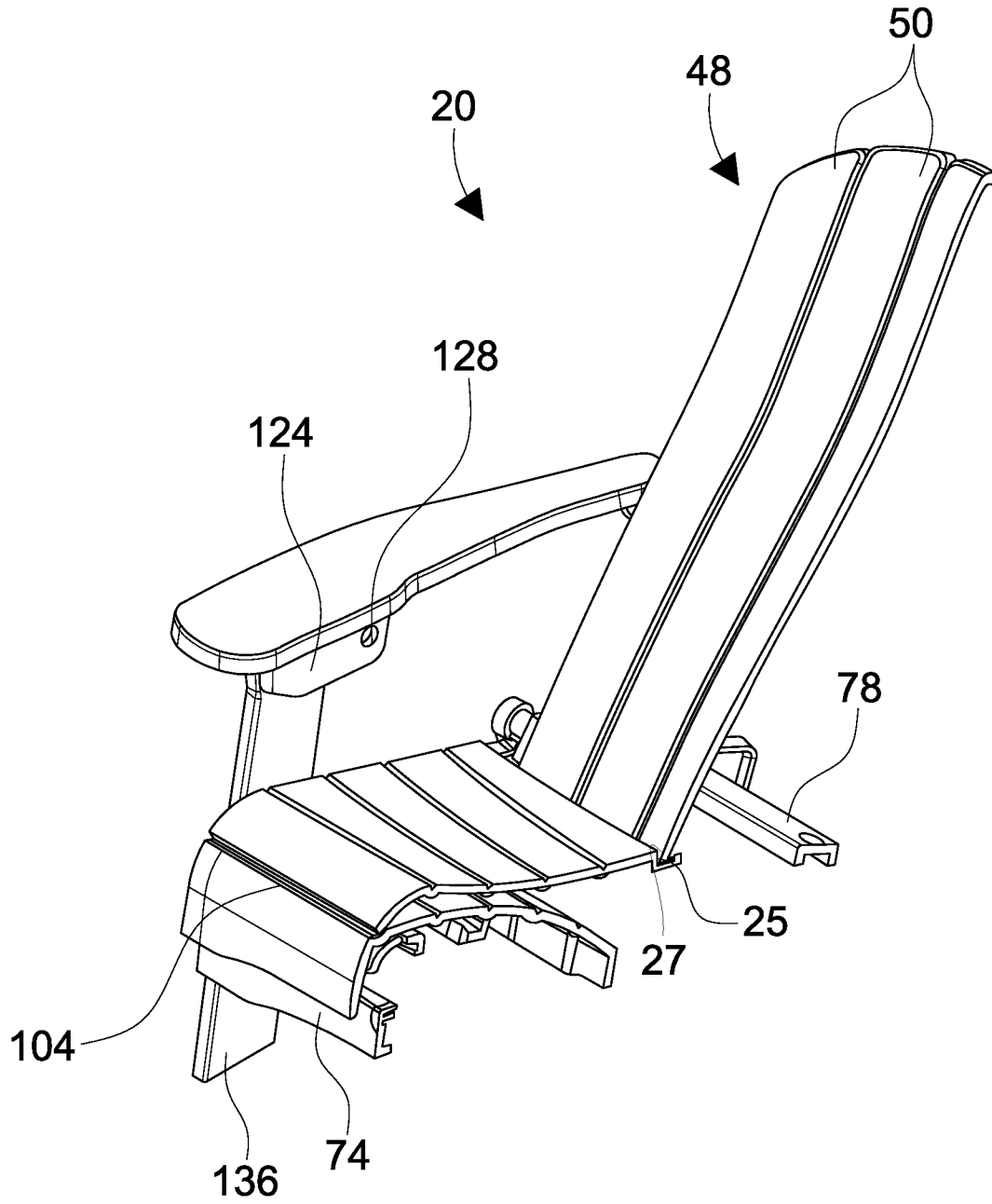


FIG. 7B

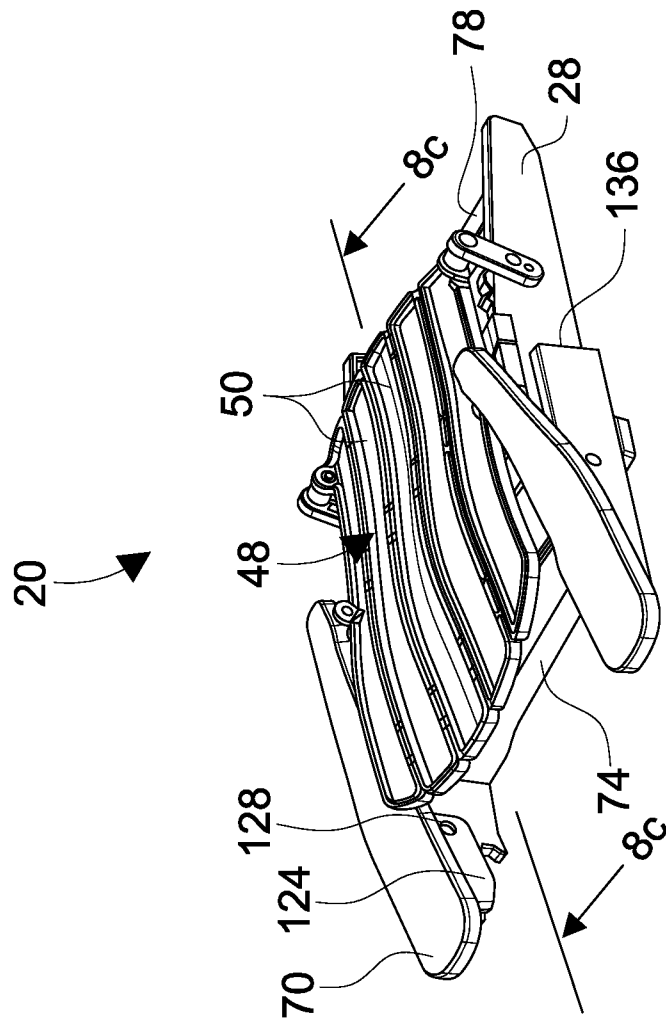


FIG. 8A

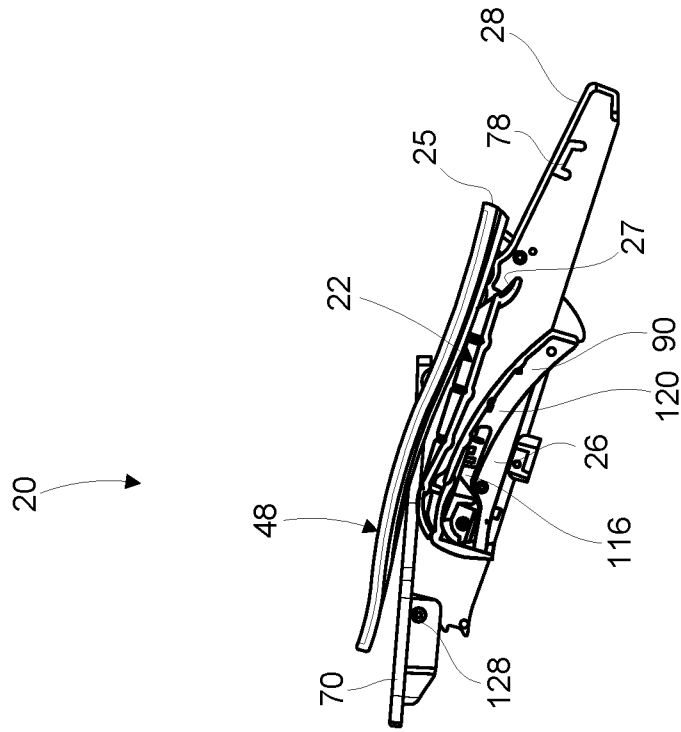


FIG. 8B

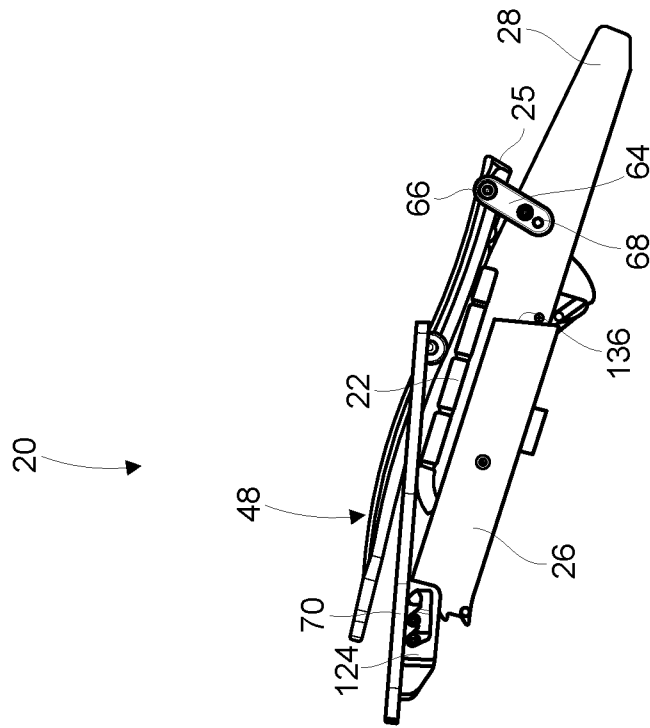


FIG. 8C

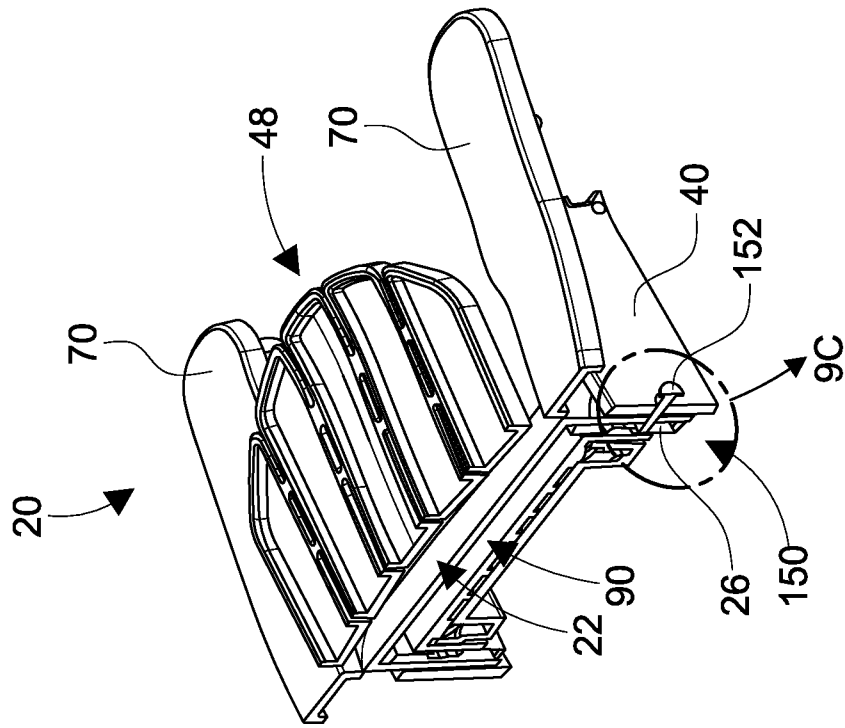


FIG. 9B

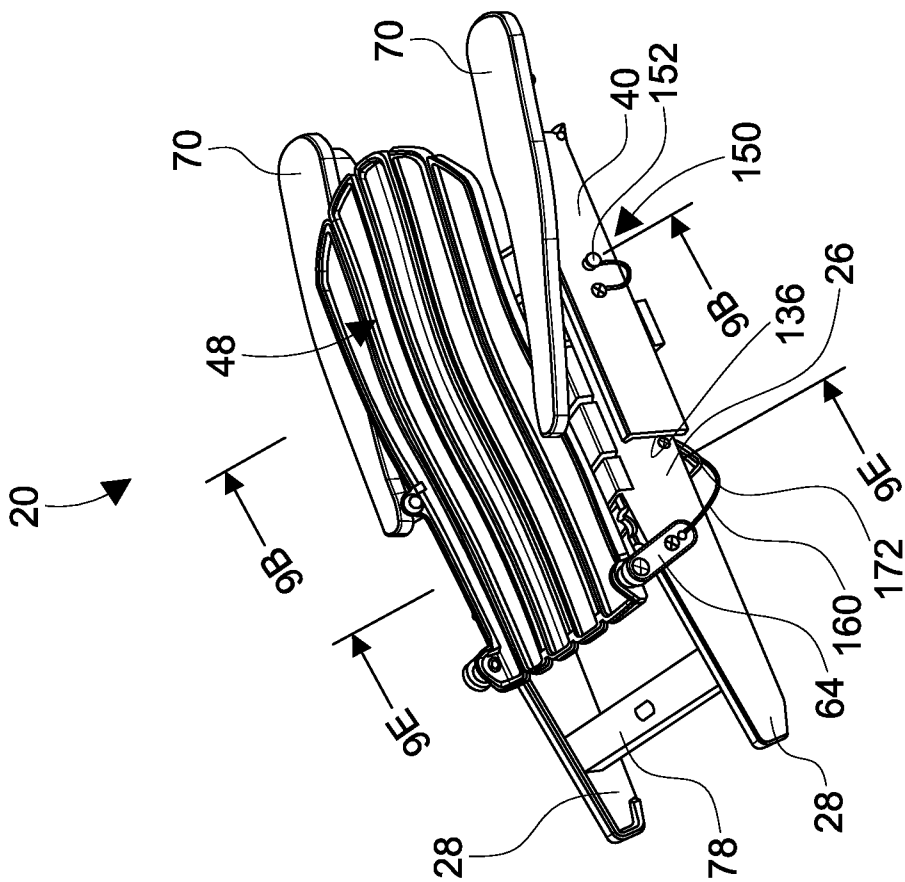


FIG. 9A

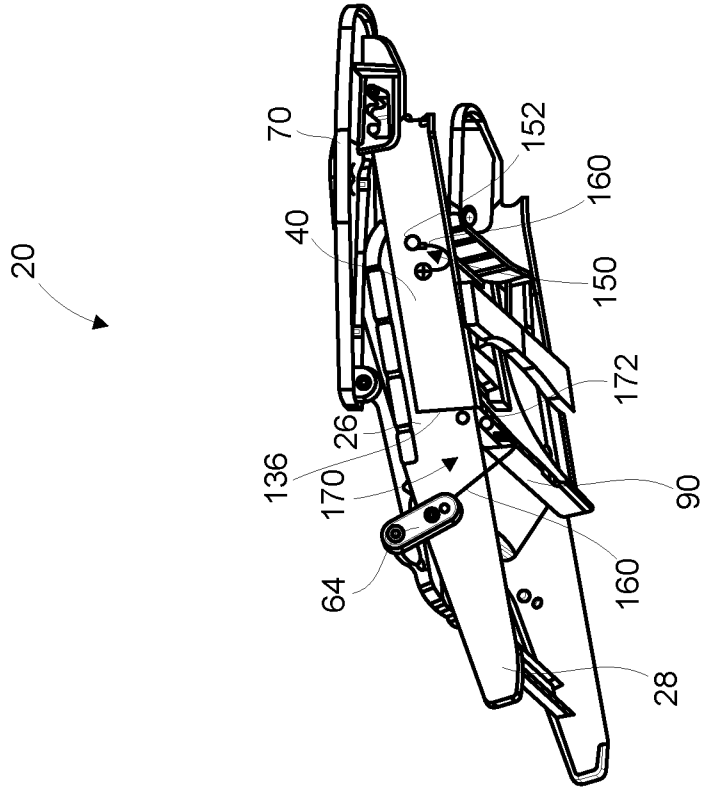


FIG. 9D

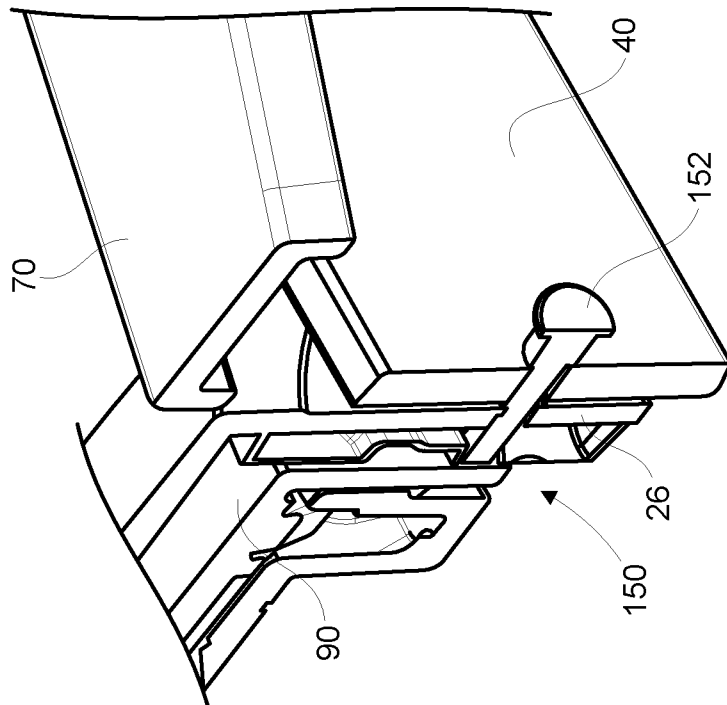


FIG. 9C

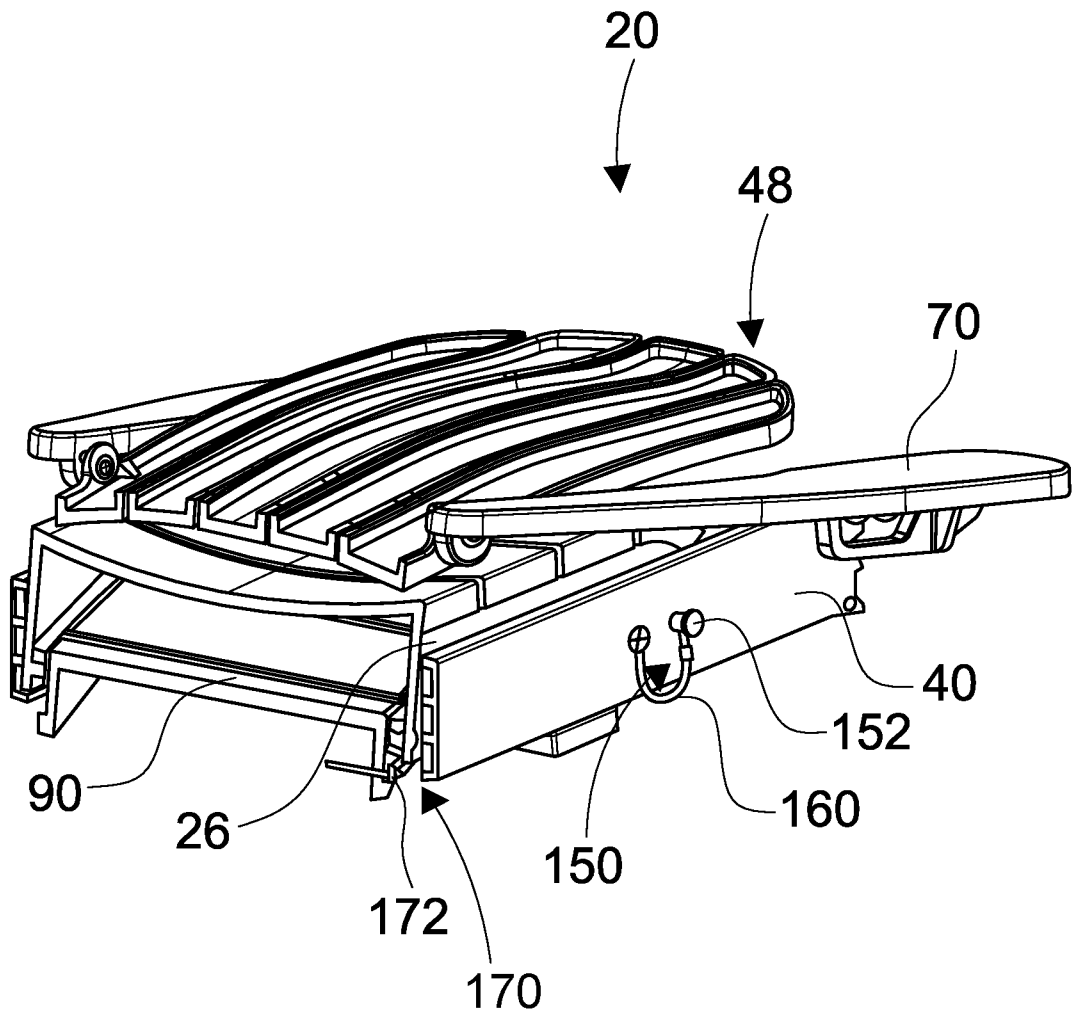


FIG. 9E

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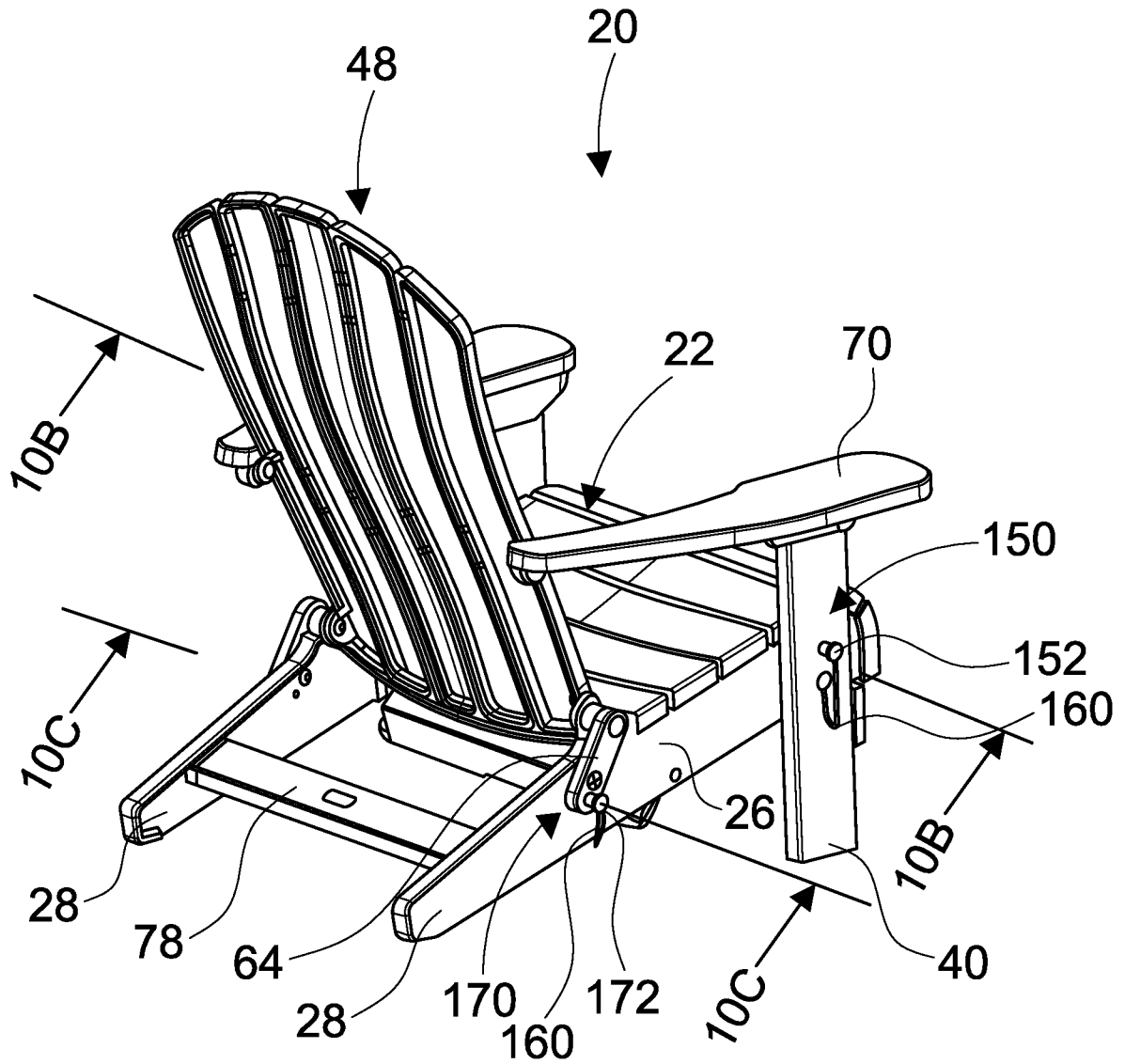
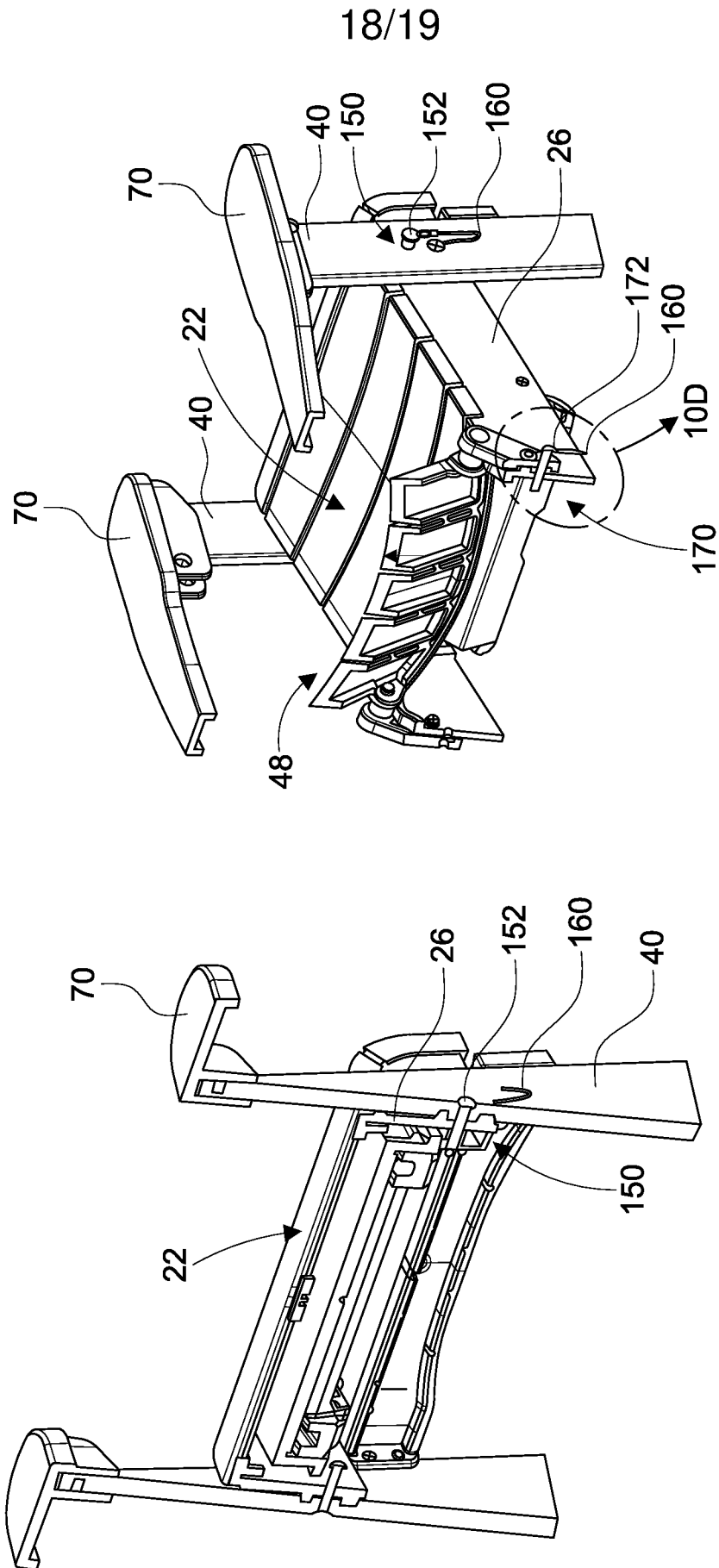


FIG. 10A



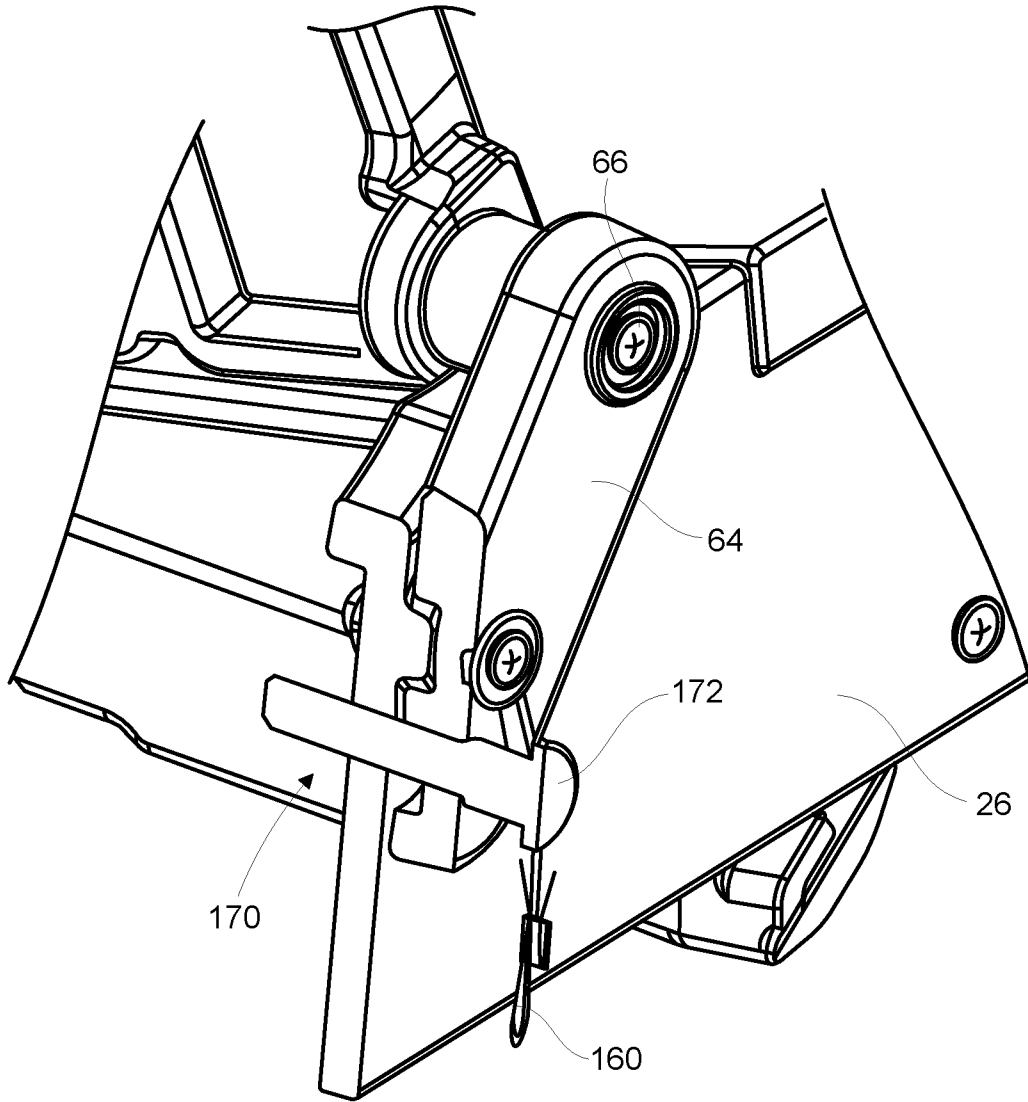


FIG. 10D

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2023/050395

A. CLASSIFICATION OF SUBJECT MATTER INV. A47C1/026 A47C4/12 A47C7/50 ADD.		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) A47C		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CA 2 711 017 A1 (DE LADURANTAYE YVON Y D L [CA]) 6 February 2012 (2012-02-06) cited in the application page 4 - page 5; figure 1 -----	1-6, 8, 9, 14, 16-30
X	FR 330 261 A (MAXIME CLAIR [FR]) 14 August 1903 (1903-08-14) figures 1-4 -----	1-4, 7, 10-13, 15, 31
A	GB 451 194 A (JOHN CHARLES OSWALD GRUNERT) 31 July 1936 (1936-07-31) figures 1-4 -----	20-22
A	US 3 301 596 A (EOS ERIC A) 31 January 1967 (1967-01-31) figure 1 -----	1
----- -/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report	
20 June 2023	28/06/2023	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Ibarrondo, Borja	

INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2023/050395

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 40 35 652 A1 (KURZ GMBH [DE]) 14 May 1992 (1992-05-14) figure 1 <p style="text-align: center;">-----</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2023/050395

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CA 2711017	A1	06-02-2012	NONE

FR 330261	A	14-08-1903	NONE

GB 451194	A	31-07-1936	NONE

US 3301596	A	31-01-1967	NONE

DE 4035652	A1	14-05-1992	NONE
