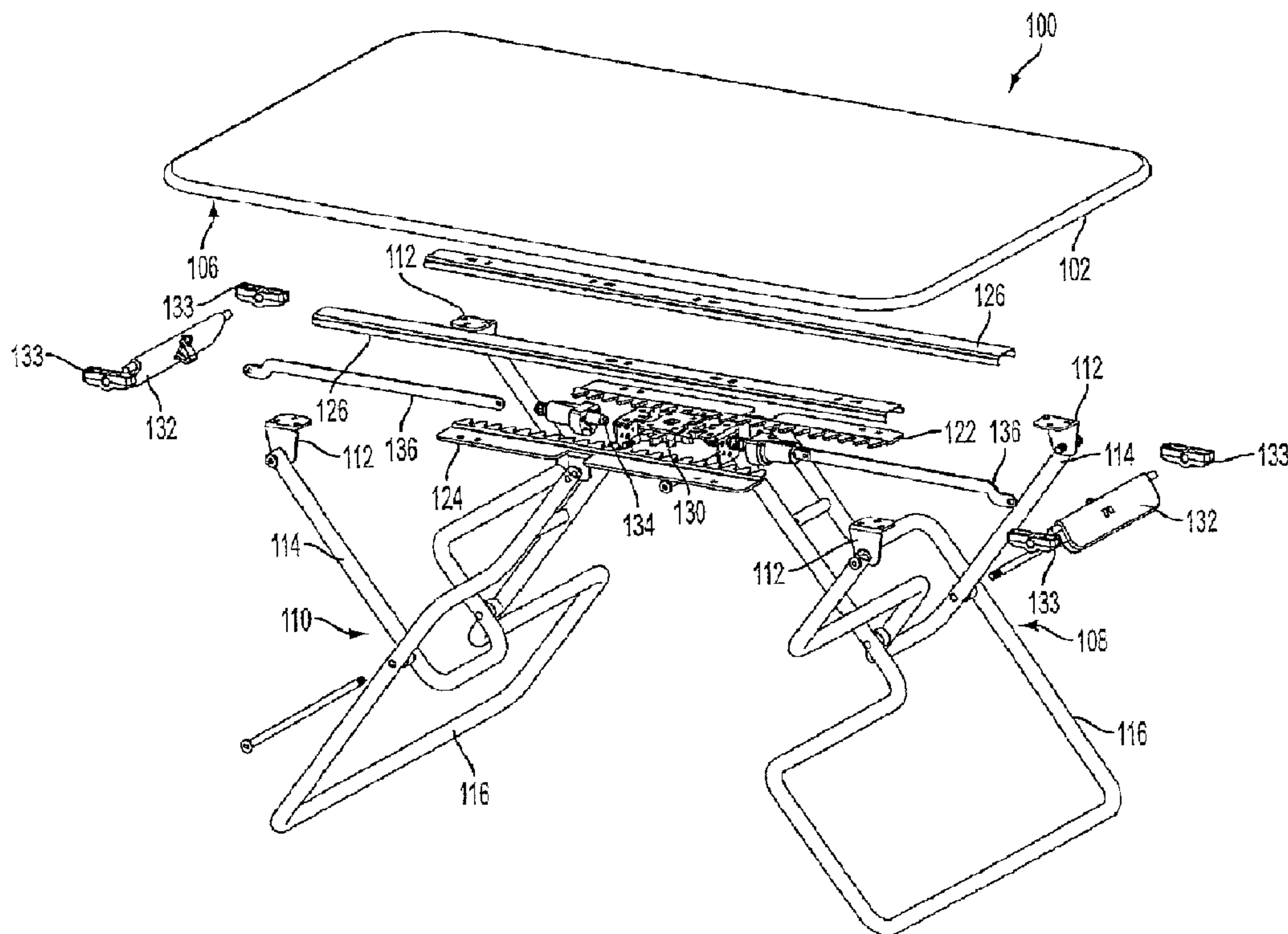




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(54) **Titre : PLATEFORME DE BUREAU A HAUTEUR REGLABLE**
(54) **Title: ADJUSTABLE HEIGHT DESK PLATFORM**



(57) **Abrégé/Abstract:**

An adjustable height desk platform includes: a platform including a substantially flat work surface and a lower surface opposite to the work surface; a first leg member and a second leg member coupled to the lower surface, the first leg member and the second leg member each movable between a fully raised position and a fully lowered position; a rack and pinion gear system associated with the first leg member and the second leg member; and a latch mechanism associated with the rack and gear system, the latch mechanism adapted to selectively immobilize the rack and pinion gear system to retain the first leg member and the second leg member in the fully raised position or the fully lowered position.

Abstract:

An adjustable height desk platform includes: a platform including a substantially flat work surface and a lower surface opposite to the work surface; a first leg member and a second leg member coupled to the lower surface, the first leg member and the second leg member each movable between a fully raised position and a fully lowered position; a rack and pinion gear system associated with the first leg member and the second leg member; and a latch mechanism associated with the rack and gear system, the latch mechanism adapted to selectively immobilize the rack and pinion gear system to retain the first leg member and the second leg member in the fully raised position or the fully lowered position.

ADJUSTABLE HEIGHT DESK PLATFORMTechnical Field:

[0001] This application relates generally to work surfaces, and more particularly, to an adjustable height desk platform.

Background:

[0002] Desk platforms are known in the art. Desk platforms can be used on top of an existing surface (e.g., a conventional desk or table) to raise the height of the work surface. Alternatively, desk platforms can be used over a person's lap when working from a chair, sofa, or other surface that lacks a useable work surface. In order to vary the height of the desk platform, the platform may include adjustable legs movable between raised and lowered positions.

SUMMARY:

[0003] According to an embodiment, an adjustable height desk platform includes: a platform including a substantially flat work surface and a lower surface opposite to the work surface; a first leg member and a second leg member coupled to the lower surface, the first leg member and the second leg member each movable between a fully raised position and a fully lowered position; a rack and pinion gear system associated with the first leg member and the second leg member; and a latch mechanism associated with the rack and pinion gear system, the latch mechanism adapted to selectively immobilize the rack and pinion gear system to retain the first leg member and the second leg member in the fully raised position or the fully lowered position. According to embodiments, the platform can include an upper and lower surface cover and a fitted work surface.

[0004] According to another embodiment, a method of using the desk platform comprises: disengaging the latch mechanism; lifting the platform, thereby raising the first leg member and the second leg member from the fully lowered position to the fully raised position; and re-engaging the latch mechanism.

[0005] Other features and advantages will become apparent from the following description, taken in connection with the accompanying drawings, wherein, by way of illustration and example, embodiments of the invention are disclosed.

BRIEF DESCRIPTION OF THE DRAWINGS:

[0006] The features and advantages of the invention will be apparent from the following description, as illustrated in the accompanying drawings wherein like reference numbers generally indicate identical, functionally similar, and/or structurally similar elements.

[0007] Figure 1 is a front, perspective view of an embodiment of an adjustable height desk platform. Figure 1 depicts the adjustable height desk platform in a fully raised position.

[0008] Figure 2 is a front, perspective, exploded view of the adjustable height desk platform of Figure 1.

[0009] Figure 3 is a front view of the adjustable height desk platform of Figure 1.

[0010] Figure 4 is a side view of the adjustable height desk platform of Figure 1.

[0011] Figure 5 is a front, perspective view of the adjustable height desk platform of Figure 1, shown in a fully lowered position.

[0012] Figure 6 is a front view of the adjustable height desk platform of Figure 1, shown in the fully lowered position.

[0013] Figure 7 is a bottom, perspective view of a portion of the adjustable height desk platform of Figure 1.

[0014] Figure 8 is another bottom, perspective view of a portion of the adjustable height desk platform of Figure 1.

[0015] Figure 9 depicts a bottom, perspective, partially exploded view of another embodiment of an adjustable height desk platform.

[0016] Figure 10 depicts a partially exploded, perspective view of a portion of Figure 9.

[0017] Figure 11 depicts a bottom, perspective view of an embodiment of the adjustable height desk platform.

[0018] Figure 12 depicts a partially exploded, perspective view of an embodiment of an adjustable height desk platform.

[0019] Figure 13 depicts a side view of an embodiment of the adjustable height desk platform in a fully lowered position.

[0020] Figure 14 depicts a perspective view of an embodiment of the adjustable height desk platform in a fully lowered position.

[0021] Figure 15 depicts a perspective view of an embodiment of the adjustable height desk platform in a fully raised position.

[0022] Figure 16 depicts a perspective view of an embodiment of the adjustable height desk platform in a raised position.

DETAILED DESCRIPTION:

[0023] Embodiments of the invention are discussed in detail below. In describing embodiments, specific terminology is employed for the sake of clarity. However, the invention is not intended to be limited to the specific terminology so selected. While specific embodiments are discussed, it should be understood that this is done for illustration purposes only. A person skilled in the relevant art will recognize that other components and configurations can be used without departing from the spirit and scope of the invention.

[0024] The present invention relates to an adjustable height desk platform that can be used, for example, to support reading materials, writing materials, computers, and other electronics, etc. To facilitate working at a variety of different heights, the desk platform can be adjustable in height, as will be described in more detail, below.

[0025] Figures 1-4 depict an embodiment of the adjustable height desk platform 100 in a fully raised position, and Figures 5-6 depict the desk platform 100 in a fully lowered position. Although not shown, the desk platform 100 can also be located in one or more intermediate positions between the fully raised and fully lowered positions.

[0026] Referring to Figure 1, the desk platform 100 can include a platform 102 having an upper surface that defines a substantially flat work surface 104, and a lower surface 106

opposite to the work surface 104. As shown in Figure 1, the work surface 104 can occupy the entire upper surface of the platform 102. As also shown, the work surface 104 can be substantially flat and devoid of any obstructions that would disrupt placing items on the work surface 104. However, other embodiments may include features (not shown) in the work surface 104, such as depressions or pockets to hold writing utensils or other items, or a raised edge to prevent items from rolling off the work surface 104. The platform 102 can be constructed from a variety of materials, including plastic, composites, wood, particle board, cardboard, or other materials known in the art, or combinations thereof. As discussed in reference to Figures 12-16 below, the platform 102 can include additional component(s) to add to the aesthetics or increase the profile of the platform.

Still referring to Figure 1, the work surface 104 can define length L of between about 15 inches and about 36 inches, for example between about 20 inches and about 30 inches. The work surface 104 can also define a width W of between about 10 inches and about 20 inches, for example between about 12 inches and about 16 inches. One of ordinary skill in the art will appreciate from this disclosure, however, that other sizes and shapes of the work surface 104 are possible. For example, the work surface 104 can alternatively define a length L of between about 24 inches and about 60 inches, and a width W of between about 18 inches and about 36 inches.

[0027] Still referring to Figures 1-4, the desk platform 100 can include a first leg member 108 and a second leg member 110 coupled to the lower surface 106 of the platform 102. When in the fully raised position, or any of the intermediate positions, the first leg member 108 and second leg member 110 together support the desk platform 100 above an existing surface, such as an office desk, sofa, or other surface. As best shown in Figure 2, the first and second leg members 108, 110 can each be pivotably coupled to the platform 102 using brackets 112, or other structures known in the art. In an embodiment, first and second leg member 108, 110 may each include two arm members and a horizontal member located between the two arm members.

[0028] Still referring to Figure 2, each of the first leg member 108 and the second leg member 110 can comprise two parts joined together. For example, each of the first leg member 108 and the second leg member 110 can include a first leg component 114 coupled to the lower surface 106 of the platform 102, for example, using the brackets 112. Each leg member 108, 110 can also include a second leg component 116 pivotably coupled to the first leg component 114, for example, using screws, bolts, rivets, hinges, or other structures. By incorporating first and second leg components 114, 116, each leg member 108, 110 can fold in an ergonomic and compact manner when moving between fully raised and fully lowered positions. When the first leg member 108 or the second leg member 110 is folded, the respective first leg component 114 may be configured to pivot in a first direction, while the respective second leg component 116 may be configured to pivot in a second direction. For instance, first leg components 114 may each include a wide portion and a narrow portion, where the narrow portion is located between the arms of the respective second leg component 116. Further, the first and second leg components 114, 116 and the first and second leg members 108, 110 may be configured such that when they are in the fully lowered position, the first and second components 114, 116 and the first and second leg members 108, 110 are all positioned substantially horizontal to the work surface 104.

[0029] One of ordinary skill in the art will appreciate from this disclosure, however, that alternate embodiments can include leg members 108, 110 that are a single rigid component, or that comprise multiple components rigidly connected to one another. According to embodiments, a portion of each second leg component 116 can be coupled to a rack and pinion gear system, to be described in more detail below.

[0030] Referring to Figures 7 and 8, an embodiment of a rack and pinion gear system 120 according to the present invention is shown. The rack and pinion gear system 120 can be used in conjunction with one or more latch mechanisms, described later, to releasably hold the leg members 108, 110 (only partially shown in Figures 7 and 8) in the fully raised position, fully lowered position, or in one or more intermediate positions therebetween.

[0031] The rack and pinion gear system 120 can include a first rack gear 122 associated with the first leg member 108, and a second rack gear 124 associated with the second leg member 110. As shown, the first and second rack gears 122, 124 can be slidably mounted to the lower surface 106 of the platform 102, for example, using linear bearings 126 or other structures known in the art. Accordingly, the first rack gear 122 and second rack gear 124 can slide along the lower surface 106 substantially in parallel to one another, e.g., in and out of the paper as seen in Figure 8.

[0032] The first leg member 108 can be coupled to the first rack gear 122, for example, through its second leg component 116, such that moving the first leg member 108 between the fully raised and fully lowered positions causes the first rack gear 122 to slide along the lower surface 106 of the platform, e.g., within linear bearing 126. Likewise, second leg member 110 can be coupled to the second rack gear 124, for example, through its second leg component 116, such that moving the first leg member 110 between the fully raised and fully lowered positions causes the second rack gear 124 to slide along the lower surface 106. According to embodiments, simultaneously raising and lowering the first and second leg members 108, 110 can cause the first rack gear 122 and second rack gear 124 to move in substantially parallel, but opposite, directions.

[0033] Still referring to Figures 7 and 8, the rack and pinion gear system 120 can also include a pinion gear 130 located in contact with the first and second rack gears 122, 124. For example, the pinion gear 130 can be rotatably mounted to the lower surface 106 of the platform 102 in between the movement paths of the first and second rack gears 122, 124. Due to their mutual engagement with the pinion gear 130, the first and second rack gears 122, 124 can be constrained to substantially proportional movement in substantially parallel, but opposite, directions. As a result, movement of the first leg member 108 and second leg member 110 can be synchronized. Additionally, preventing rotation of the pinion gear 130 can immobilize the first and second rack gears 122, 124, and in turn, can substantially lock the position of the corresponding first and second leg members 108, 110 (e.g., in the fully raised position, fully lowered position, or an intermediate position there between).

[0034] Still referring to Figures 7 and 8, the desk platform 100 can also include a latch mechanism operable to engage and immobilize the pinion gear 130, or alternatively, to disengage the pinion gear 130. As a result, the latch mechanism can control whether the first and second members 108, 110 are locked in position, or are free to move with respect to the platform 102. Alternate embodiments can include a latch mechanism that engages some other part of the rack and pinion gear system 120, such as one or more of the rack gears 122, 124, or some other part associated therewith.

[0035] The latch mechanism can include a handle 132 that is movable by a user, for example, pivotable with respect to the platform 102. The handle 132 can be connected to a latch member 134 (see Figures 2 and 7) adapted to engage the pinion gear 130. For example, the handle 132 can be connected to the latch member 134 by a linkage member 136. Linkage member 136 can cause a portion of the latch member 134 to move in a horizontal direction and engage the pinion gear 130. According to embodiments, the handle 132 can be pivotably mounted to the lower surface 106 of platform 102 by opposite pairs of pivot blocks 133, however, other configurations are possible.

[0036] According to embodiments, the latch member 134 can be biased into engagement with the pinion gear 130, such that the latch member 134 normally immobilizes the pinion gear 130. As a result, absent disengagement of the latch mechanism by the user, the latch mechanism will lock the rack and pinion gear system, 120, and substantially immobilize the first and second leg members 108, 110. According to embodiments, springs or other elastic members associated with latch housing 138 can bias the latch member 134 into engagement with the pinion gear 130, however, other configurations are possible. For example, additionally or alternatively, springs or other elastic members associated with the handle 132 can bias the latch member 134 into engagement with the pinion gear 130. When a user desires to change the position of the first and second leg members 108, 110, the user can pivot the handle 132, which in turn causes the latch member 134 to disengage the pinion gear 130, thereby allowing the user to move the desk platform to the desired height. Releasing the handle 132 causes the latch member 134 to re-engage the pinion gear 130,

thereby immobilizing the pinion gear 130 and substantially locking the position of the first and second leg members 108, 110 with respect to the platform 102. As best shown in Figures 2, 3, and 6, the desk platform 100 can include first and second latching mechanisms, both of which can be substantially as described above. Accordingly, the user may need to disengage both the first and second latch mechanisms in order to change the position of the first and second leg members 108, 110 with respect to the platform 102, however, other configurations are possible.

[0037] Still referring to Figures 7 and 8, one or more elastic members 140, such as a spring or elastomeric device, may be provided to pre-load or bias the first and second leg members 108, 110 with respect to the platform 102. For example, in the embodiment shown, one of the elastic members 140 can be anchored to the second rack gear 124 at one end, and can be anchored to the lower surface 106 of the platform 102 at the opposite end. The elastic member 140 can be positioned such that moving the leg member 110 from the fully raised position toward the fully lowered position extends the elastic member 140, thereby providing resistance to movement in this lowering direction. Additionally, moving the leg member 110 from the fully lowered position toward the fully raised position can relax the elastic member 140, thereby providing a lift-assist that facilitates moving the desk platform 100 toward a raised position. As shown in Figures 7 and 8, another elastic member 140 can also be provided in connection with the first leg member 108 and first rack gear 122.

Recesses can be provided in the lower surface 106 of the platform 102 in the vicinity of the elastic members 140, e.g., to provide adequate clearance, however, other configurations are possible. The elastic members 140 are not limited to the configuration shown. Rather, other configurations are possible, as will be appreciated by one of ordinary skill in the art based on this disclosure.

[0038] As shown in Figure 8, one or more standoffs 150 can be connected to the lower surface 106 of the platform 102 to maintain the first and/or second leg members 108, 110 in proper position with respect to the lower surface 106 when in the fully lowered position.

[0039] Referring generally to Figures 1 and 6, the height of desk platform 100 can be adjusted by the user to suit his or her needs or environment. For example, Figure 6 shows the desk platform in a fully lowered position. By pivoting the handles 132, the user can disengage the latch mechanism from the rack and pinion gear system 120, thereby allowing the first and second leg members 108, 110 to raise with respect to the platform 102, for example, under the "lift assist" provided by optional elastic members 40. The user can then move the platform 102 to one of the intermediate positions, or to the fully raised position, and release the handle to re-engage the latch mechanism and rack and pinion gear system 120, thereby substantially locking the first and second leg members 108, 110 in place. Figure 1 shows the desk platform 100 in the fully raised position. After use, or when a change of position is needed, the user can once again pivot the handles 132 to disengage the latch mechanism from the rack and pinion gear system 120 to move the platform 102 to the desired position. In the case of storage, the user can move the platform 102 to the fully lowered position shown in Figure 6 to provide a compact configuration for storage, or for use while sitting. Movement of the platform 102 from the fully raised position toward the fully lowered position can extend the elastic members 140, thereby providing a dampening effect to the lowering motion.

[0040] Figure 9 depicts a bottom, perspective, partially exploded view of another embodiment of the adjustable height desk platform 100. Figure 10 depicts a partially exploded, perspective view of a portion of Figure 9. The same reference numbers are used in Figures 9 and 10 to identify items that are the same as, or substantially similar to, features shown Figures 1-8. Only significant differences between the embodiment of Figures 1-8 and the embodiment of Figures 9-10 are described below.

[0041] Referring to Figure 10, the desk platform 100 can use tracks 160 to couple the first and second rack gears 122, 124 to the lower surface of the platform 102. As shown, each of the tracks 160 can be secured to the lower surface of the platform 102 using mounting brackets 162 that extend over the tracks 160, however, other configurations are possible. For example, the tracks 160 can alternatively be screwed directly to the platform 102.

[0042] Still referring to Figure 10, one or more slide members 164 can connect each rack gear 122, 124 to the respective track 160. According to an embodiment, the tracks 160 can define an outer profile that compliments an inner profile of the slide members 164. As a result, the slide members 164 are retained on the tracks 160 in a manner that permits sliding of the sliding members 164 along the tracks 160. The rack gears 122, 124 can in turn be connected to the respective sliding members 164, for example, using fasteners, bonding, adhesives, or other structures. As with the embodiment of Figures 1-8, the second leg components 116 can couple to the respective rack gears 122, 124 using mounting tabs 168 on the rack gears 122, 124, and respective fasteners 166 located on the second leg components 116, however, other configurations are possible.

[0043] Referring to Figure 9, embodiments of the desk platform 100 can include a carrying handle 170. The carrying handle 170 can be used by a user to facilitate transport of the desk platform. As shown in Figure 9, the handle 170 can mount to the lower surface of platform 102 using brackets 172. The handle can slide within brackets 172, allowing the handle 170 to move between a carrying position and a retracted position. Bent ends 173 or other retaining structures can prevent the handle 170 from disconnecting from the brackets 172 when in the carrying position.

[0044] When in the retracted position, the entire handle 170 can be located behind the adjacent edge of the platform 102, such that none of the handle 170 protrudes laterally beyond the perimeter of the platform 102. In the extended position, a portion of the handle 170 can extend laterally beyond the perimeter of the platform 102, to provide a surface for the user to grip.

[0045] As shown in Figure 9, recesses 174 can be provided in the lower surface 106 of the platform 102 in the vicinity of the tracks 160, or other components, to facilitate the desk platform 100 having a low profile. Additionally, the desk platform 100 can include a cover 176 coupled to the lower surface of the platform 102. As shown, the cover 176 can extend over all or a substantial portion of the rack and pinion gear system, as well as the latch mechanism. Additionally or alternatively, the cover 176 can extend over the tracks 160 and

associated components. As a result, the cover 176 can conceal many or all of the mechanical components of the desk platform 100 (e.g., all but the legs 108, 110 and other components that need to be exposed). This can add to the aesthetics and safety of the desk platform 100. With reference to Figure 9, brackets 180 can secure to the lower surface 106 of platform 102, as well as to the cover 176 (e.g., using screws or other fasteners) to attach cover 176 on the platform 102. Additionally or alternatively, other fasteners, adhesives, or known structures can be used to attach the cover 176 to the platform.

[0046] As shown in Figure 11, the cover 176 may also be configured to be attached to a lower surface of the platform 102, where the lower surface of the platform 102 includes waffled ridges 175. These waffled ridges can help reduce the weight of the platform 102 while maintaining its structural integrity.

[0047] As shown in Figure 12, the platform 102 can further comprise a cover 178 and a fitted work surface 105. The fitted work surface 105 can be configured to fit over a top surface of the cover 178. The fitted work surface 105 can snap onto the cover 178, for example, using detents, snaps, or other known structures, or alternatively, can be fastened to the cover 178 by fasteners, bonding, etc. The fitted work surface 105 can have a pair of rounded edges, which can add to the aesthetics of the desk platform 100. The cover 178 can include side cavities 179 to allow for movement of the handles 132. The cover 178 can also include holes through which screws or other fasteners may be inserted so that the brackets 112 may be attached to cover 178. The cover 178 can also include recesses to allow for movement of elastic members 140.

[0048] As shown in Figures 13, 14, and 15, the fitted work surface 105, when positioned in place, can lie flush with the cover 178. Additionally, as seen Figure 13, the first and second leg members 108, 110 may be folded up beneath the platform 102. This allows for compact storage of the desk platform 100. As seen in Figure 15, first and second leg members 108, 110 may be raised beneath the platform 102 for compact storage, as described in detail in regards to Figure 2.

[0049] Figure 16 shows an embodiment of an adjustable height desk platform, wherein the fitted work surface 105 may include aesthetic designs on an upper surface of the fitted work surface 105. One of ordinary skill in the art would appreciate that fitted work surface 105 may also be formed of different colors and materials, based on an aesthetic choice. According to embodiments, a variety of different work surfaces 105 can be provided with different aesthetic properties. The different work surfaces 105 may be interchangeably attachable to the cover 178 to vary the appearance of the desk platform 100.

[0050] The embodiments illustrated and discussed in this specification are intended only to teach those skilled in the art the best way known to the inventors to make and use the invention. Nothing in this specification should be considered as limiting the scope of the present invention. For example, the arrangement of features with respect to the upper platform and the lower platform, such as, e.g., the locking mechanism, can be reversed. All examples presented are representative and non-limiting. The above-described embodiments of the invention may be modified or varied, without departing from the invention, as appreciated by those skilled in the art in light of the above teachings. It is therefore to be understood that, within the scope of the claims and their equivalents, the invention may be practiced otherwise than as specifically described.

THE CLAIMS:

1. An adjustable height desk platform, comprising:
 - a platform including a substantially flat work surface and a lower surface opposite to the work surface;
 - a first leg member and a second leg member coupled to the lower surface, the first leg member and the second leg member each movable between a fully raised position and a fully lowered position;
 - a rack and pinion gear system associated with the first leg member and the second leg member; and
 - a latch mechanism associated with the rack and pinion gear system, the latch mechanism adapted to selectively immobilize the rack and pinion gear system to retain the first leg member and the second leg member in the fully raised position or the fully lowered position.
2. The adjustable height desk platform of claim 1, wherein the latch mechanism is further adapted to selectively immobilize the rack and pinion gear system to retain the first leg member and the second leg member in at least one intermediate position between the fully raised position and the fully lowered position.
3. The adjustable height desk platform of claim 1, wherein the rack and pinion gear system comprises:
 - a first rack gear associated with the first leg member, the first rack gear slidably mounted to the lower surface of the platform;
 - a second rack gear associated with the second leg member, the second rack gear slidably mounted to the lower surface of the platform; and
 - a pinion gear in contact with the first rack gear and the second rack gear.
4. The adjustable height desk platform of claim 3, wherein the first rack gear and the second rack gear are movable substantially in parallel to one another.
5. The adjustable height desk platform of claim 4, wherein the pinion gear is located between the first rack gear and the second rack gear.

6. The adjustable height desk platform of claim 3, wherein the pinion gear is rotatable with respect to the lower surface of the platform.
7. The adjustable height desk platform of claim 3, wherein the first rack gear and second rack gear are each coupled to the lower surface of the platform by a linear bearing.
8. The adjustable desk platform of claim 3, further comprising a first track and a second track, wherein the first rack gear is slidably mounted to the first track, and the second rack gear is slidably mounted to the second track.
9. The adjustable desk platform of claim 8, further comprising a first slide member coupling the first rack gear to the first track, and a second slide member coupling the second rack gear to the second track.
10. The adjustable height desk platform of claim 3, wherein the latch mechanism comprises a latch member adapted to selectively engage the pinion gear.
11. The adjustable height desk platform of claim 10, wherein the latch member is releasably biased into engagement with the pinion gear, the latch mechanism further comprising a handle operable by a user to disengage the latch member from the pinion gear.
12. The adjustable height desk platform of claim 11, wherein the latch mechanism comprises a linkage member coupling the latch member to the handle.
13. The adjustable height desk platform of claim 1, further comprising a second latch mechanism associated with the rack and gear system, the second latch mechanism adapted to selectively immobilize the rack and pinion gear system to retain the first leg member and the second leg member in the fully raised position or the fully lowered position.
14. The adjustable height desk platform of claim 1, further comprising an elastic member associated with the first leg member, the elastic member moveable between an extended position when the first leg member is in the fully lowered position, and a relaxed position when the first leg member is in the fully raised position.
15. The adjustable desk platform of claim 14, wherein the elastic member is coupled to the rack and pinion gear mechanism.

16. The adjustable desk platform of claim 14, further comprising a second elastic member associated with the second leg member, the second elastic member moveable between an extended position when the second leg member is in the fully lowered position, and a relaxed position when the second leg member is in the fully raised position.
17. The adjustable desk platform of claim 1, wherein each of the first leg member and the second leg member comprises:
 - a first leg component coupled to the lower surface of the platform; and
 - a second leg component coupled to the first leg component, wherein the second leg component is coupled to the rack and pinion gear system.
18. The adjustable desk platform of claim 17, wherein the first leg component is pivotably connected to the lower surface of the platform.
19. The adjustable desk platform of claim 1, wherein the entire work surface is substantially flat and unobstructed.
20. The adjustable desk platform of claim 19, wherein the work surface is coextensive with the platform.
21. The adjustable desk platform of claim 1, wherein the platform comprises at least one of plastic, composite, wood, particle board, or cardboard.
22. The adjustable desk platform of claim 1, wherein the work surface defines a length of between about 15 inches and about 36 inches, and a width of between about 10 inches and about 20 inches.
23. The adjustable desk platform of claim 1, further comprising a carrying handle coupled to the lower surface of the platform, the handle movable between a carrying position where a portion of the handle extends laterally beyond an edge of the platform, and a retracted position where the entire handle is recessed from the edge of the platform.
24. The adjustable desk platform of claim 1, further comprising a cover coupled to the lower surface of the platform, the cover extending over at least the rack and pinion gear system and a portion of the latch mechanism.

25. The adjustable desk platform of claim 1, wherein the lower surface of the platform comprises a lower surface member and the work surface of the platform comprises an upper surface member, wherein the upper surface member is mounted to a top surface of the lower surface member.
26. The adjustable desk platform of claim 25, wherein the first leg member and the second leg member are coupled to the lower surface member.
27. The adjustable desk platform of claim 26, wherein the first leg member and the second leg member are coupled to the lower surface member via a plurality of holes in the lower surface member.
28. The adjustable desk platform of claim 15, wherein the lower surface of the platform comprises a lower surface member and the work surface of the platform comprises an upper surface member, wherein the upper surface member is mounted to a top surface of the lower surface member and the lower surface member comprises at least one recess to allow for movement of the elastic member.
29. The adjustable desk platform of claim 25, wherein the upper surface member comprises a smooth flat top surface.
30. A method of using the desk platform of claim 1, comprising:
disengaging the latch mechanism;
lifting the platform, thereby raising the first leg member and the second leg member from the fully lowered position to the fully raised position; and
re-engaging the latch mechanism.
31. The method of claim 25, further comprising:
disengaging the latch mechanism;
lowering the platform, thereby lowering the first leg member and the second leg member from the fully raised position to the fully lowered position; and
re-engaging the latch mechanism.
32. The method of claim 25, further comprising:
disengaging the latch mechanism;

lowering the platform, thereby lowering the first leg member and the second leg member from the fully raised position to an intermediate position between the fully raised position and the fully lowered position; and
re-engaging the latch mechanism.

33. An adjustable height desk platform, comprising:

a platform including a substantially flat work surface and a lower surface opposite to the work surface; and

a first leg member and a second leg member coupled to the lower surface, the first leg member and the second leg member each movable between a fully raised position and a fully lowered position, wherein at least one of the first and second leg members comprises:

a first leg component pivotably connected to the lower surface of the platform,

a second leg component coupled to the first leg component, and

a slider located on the lower surface of the platform, wherein the second leg component is connected to the slider, and

a latch mechanism adapted to substantially immobilize the slider on the lower surface of the platform, thereby fixing the first leg component and second leg component in place with respect to the platform, the latch mechanism being user-operable to disengage the slider to permit movement of the first leg component and second leg component with respect to the platform.

34. The adjustable desk platform of claim 33, wherein the latch mechanism is resiliently biased into engagement with the slider to substantially immobilize the slider on the lower surface of the platform.

35. The adjustable desk platform of claim 34, wherein the latch mechanism comprises a handle operable by a user to disengage the slider to permit movement of the first leg component and second leg component with respect to the platform.

36. The adjustable desk platform of claim 1, wherein the work surface defines a length of between about 24 inches and about 60 inches, and a width of between about 18 inches and about 36 inches.

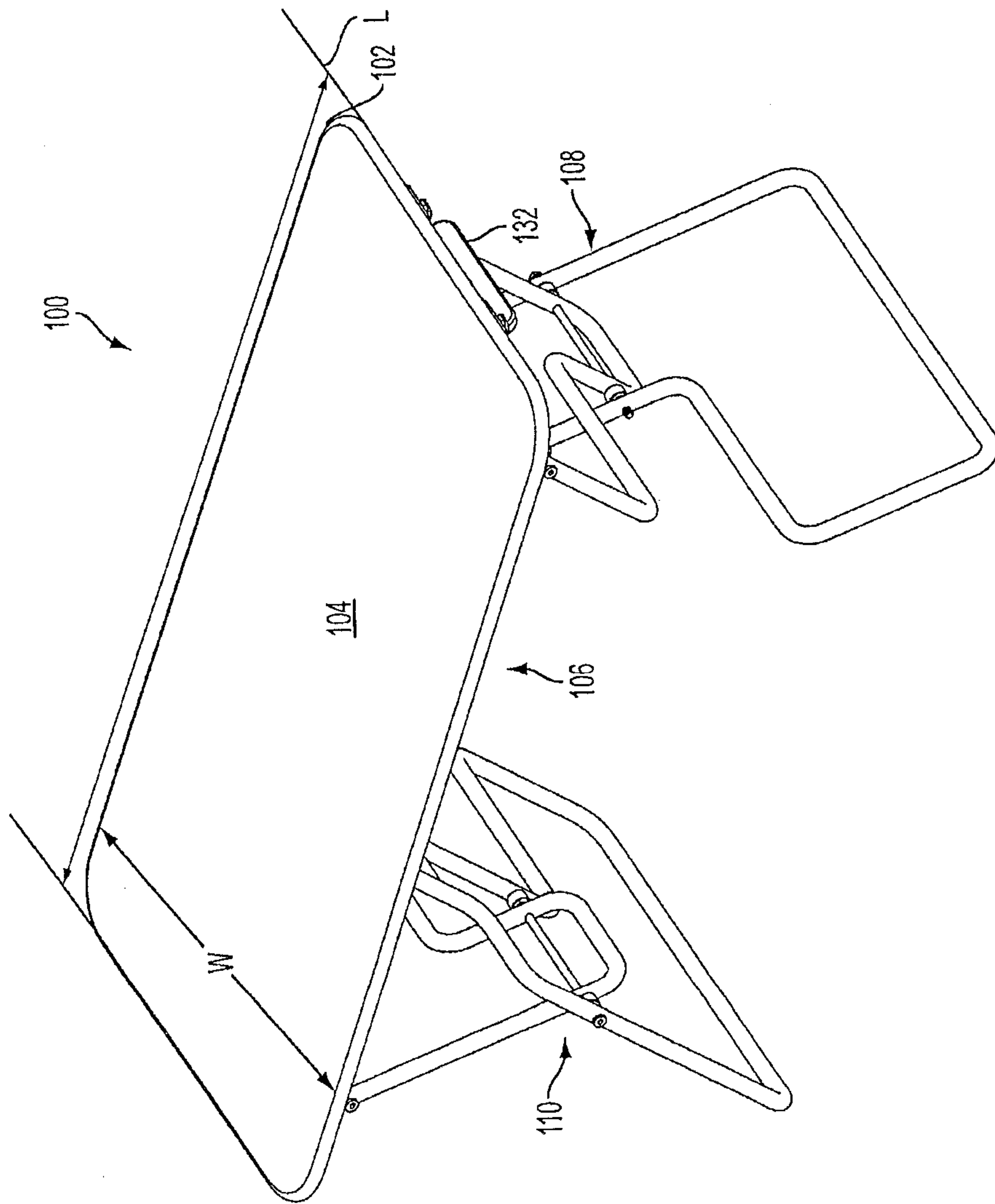


FIG. 1

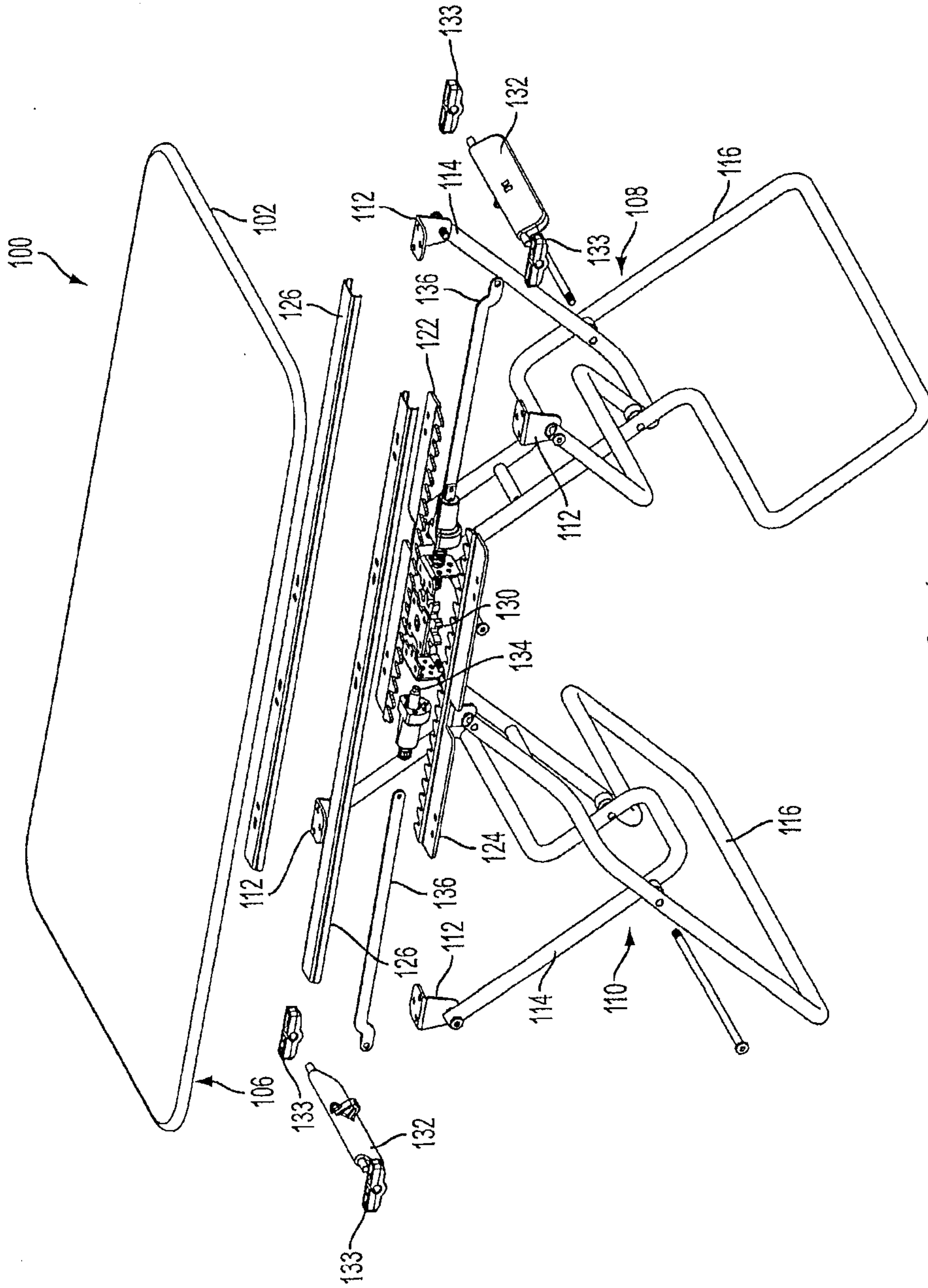


FIG. 2

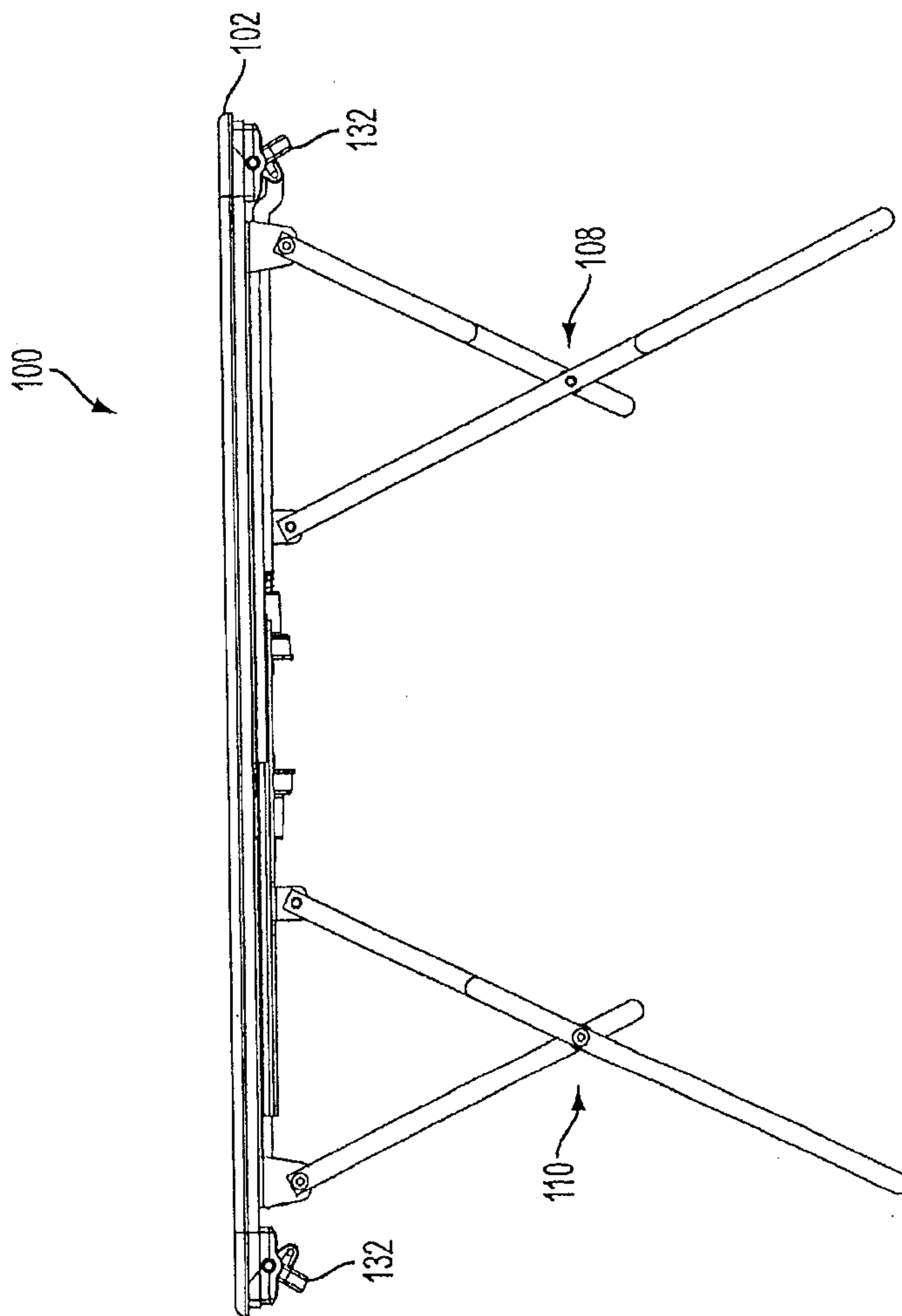


FIG. 3

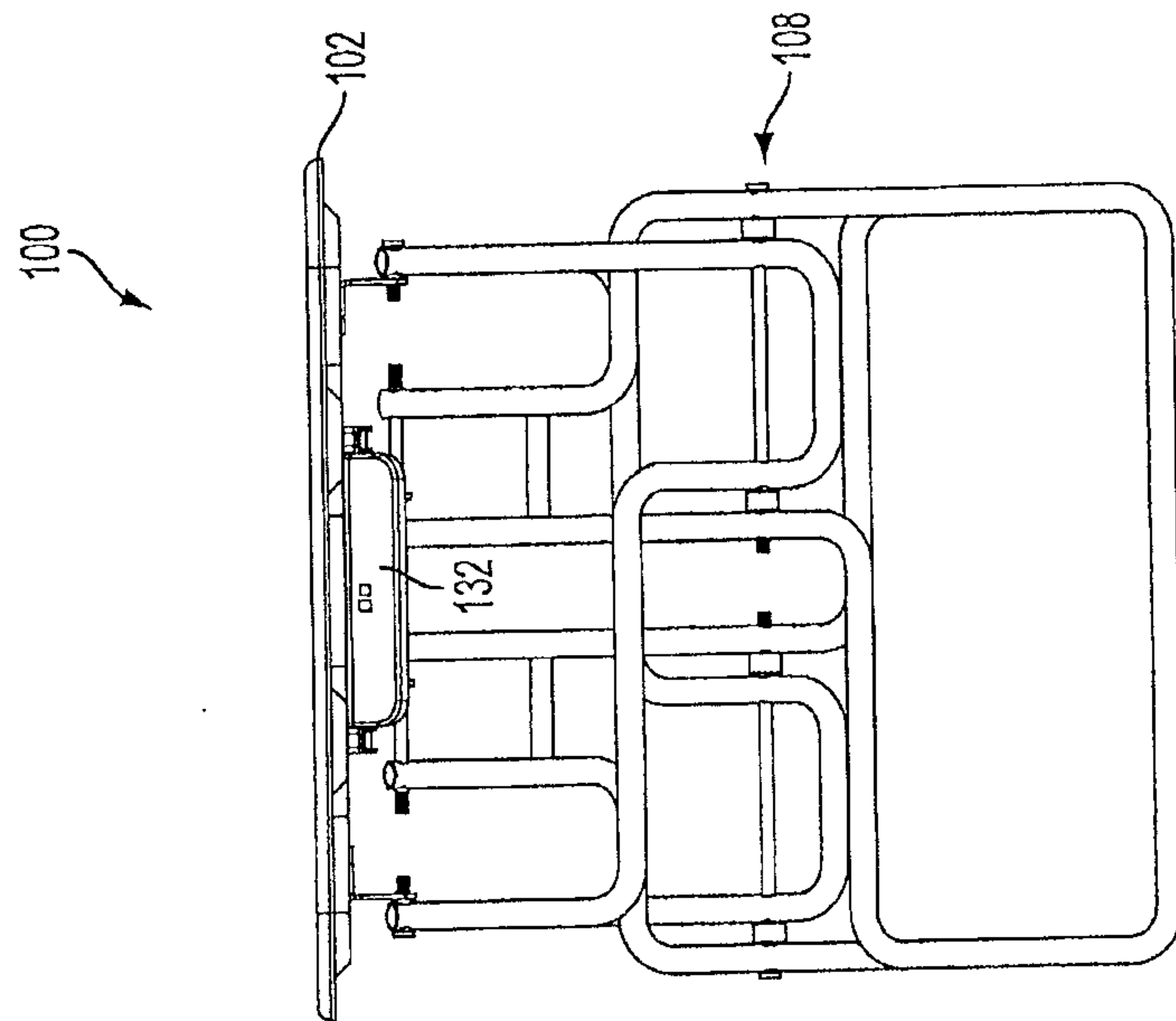
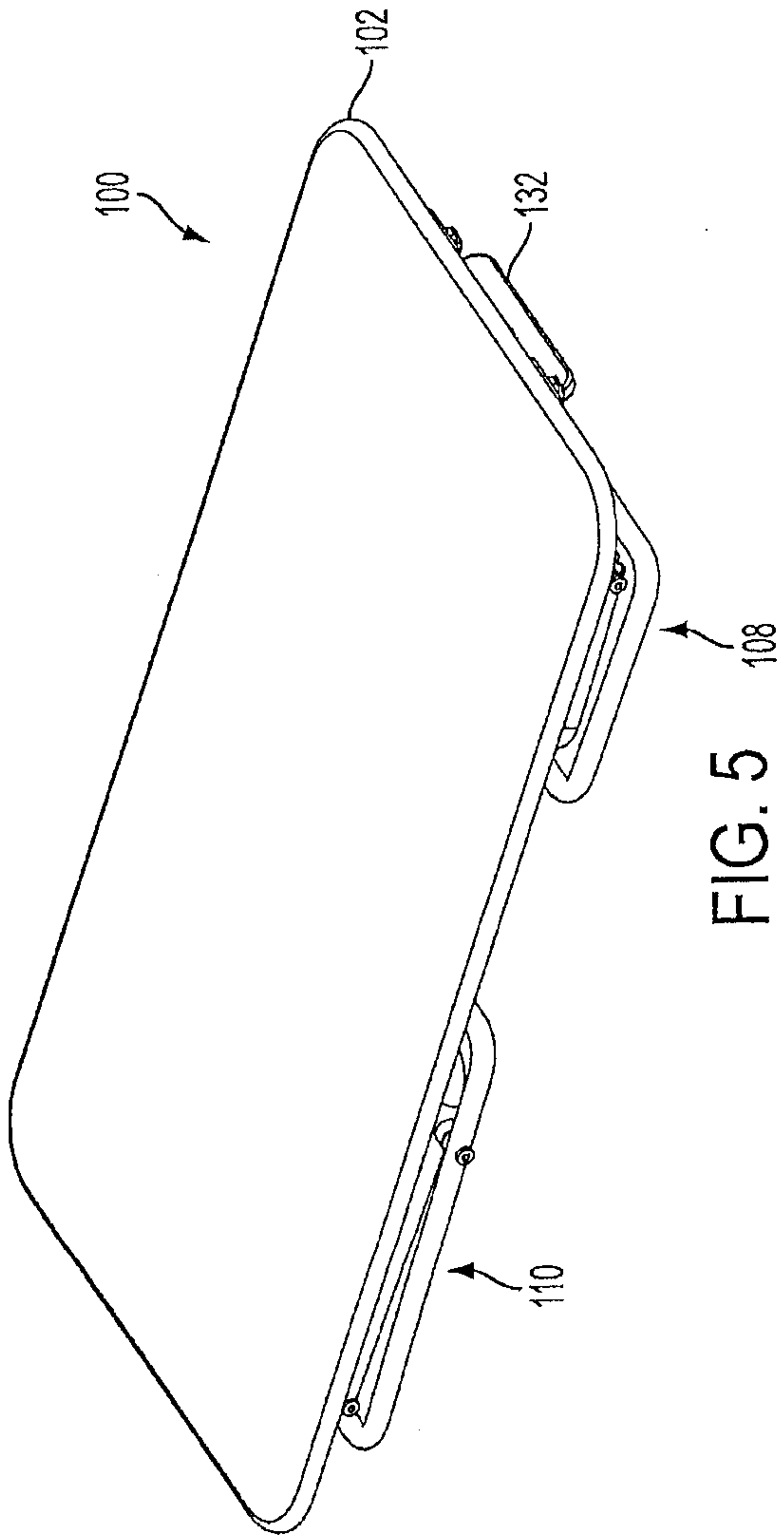


FIG. 4



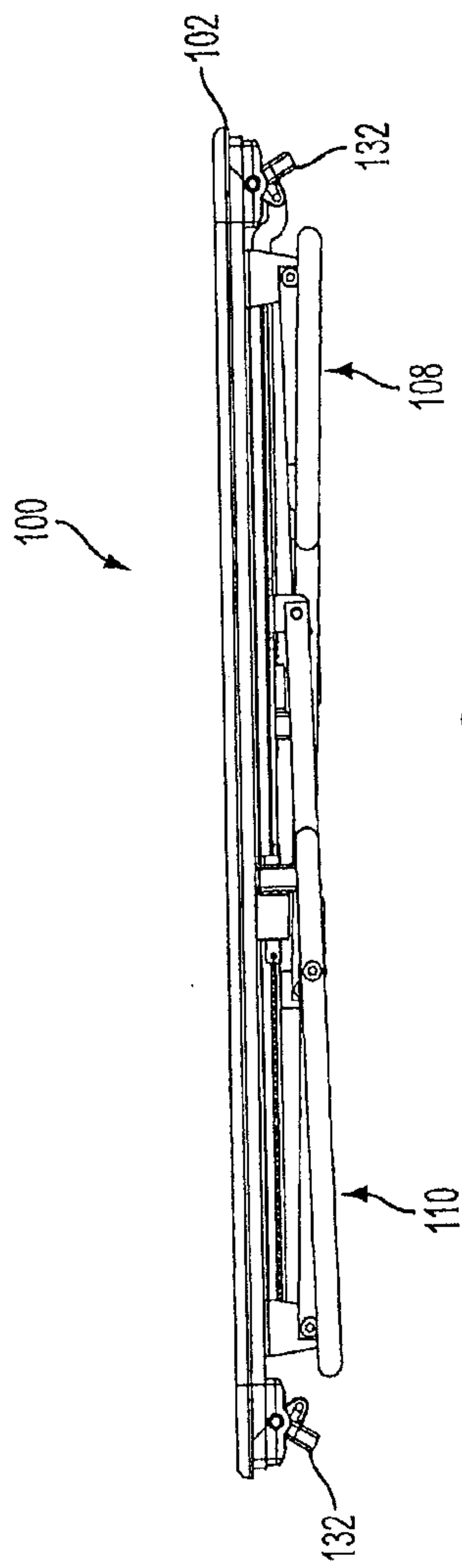


FIG. 6

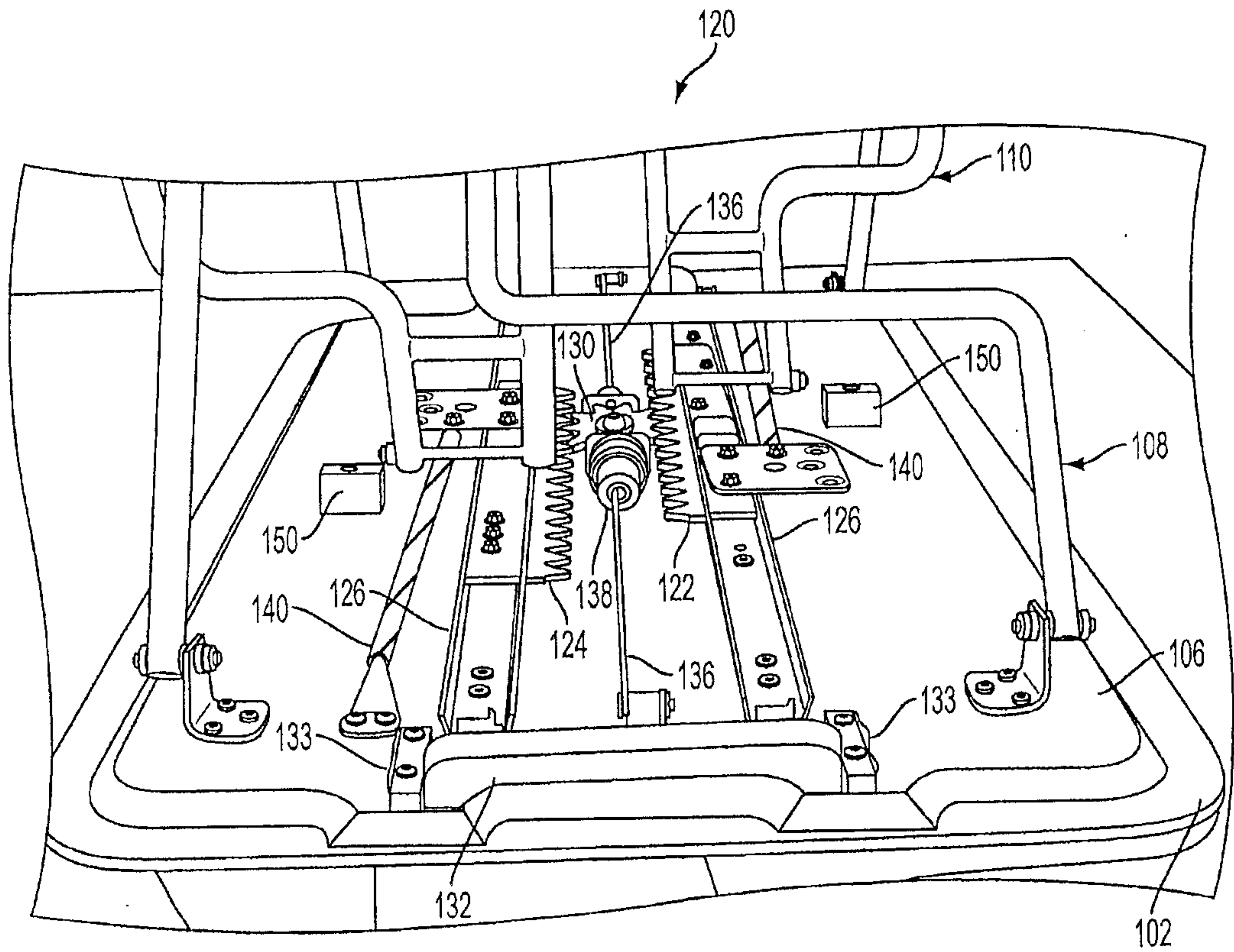


FIG. 8

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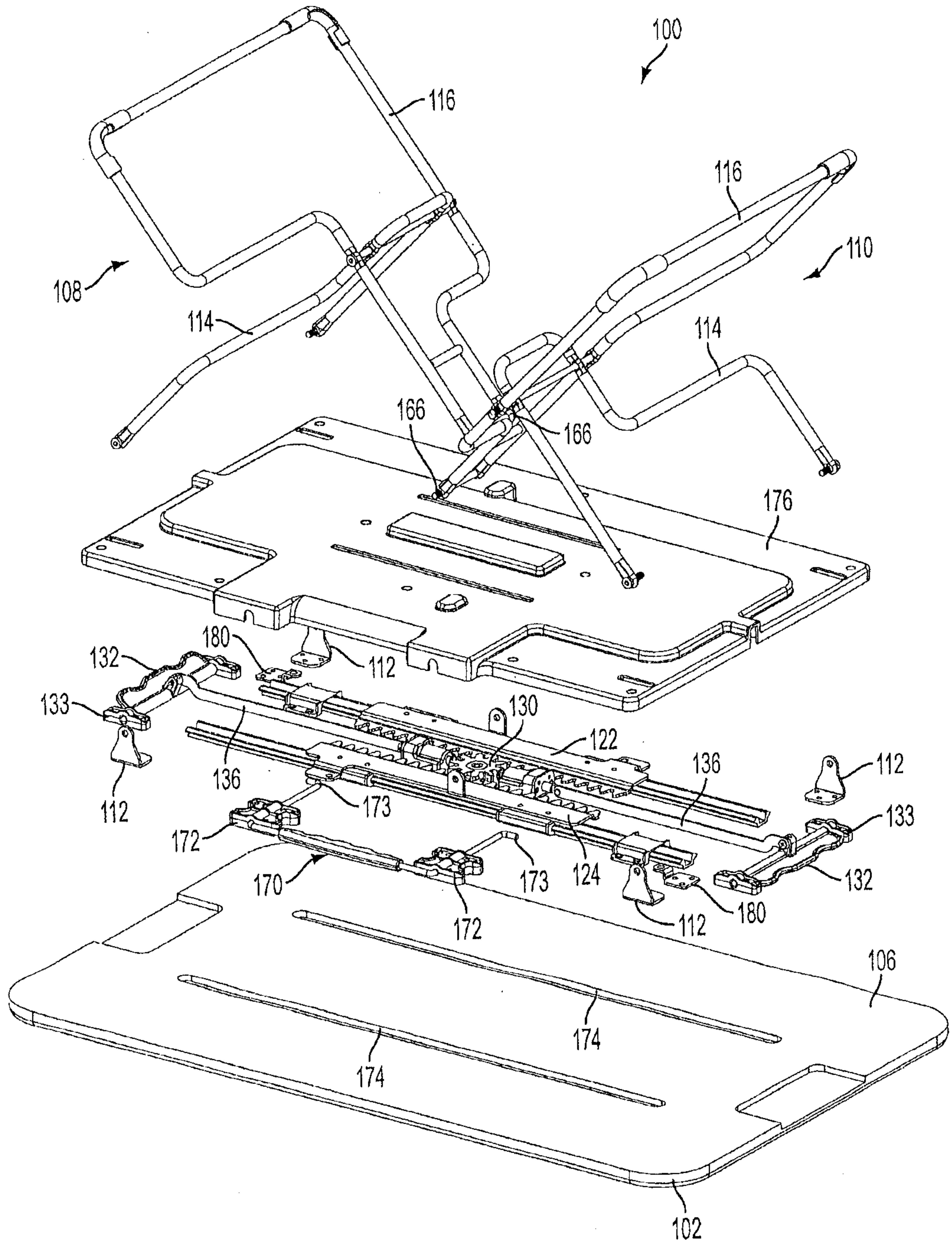


FIG. 9

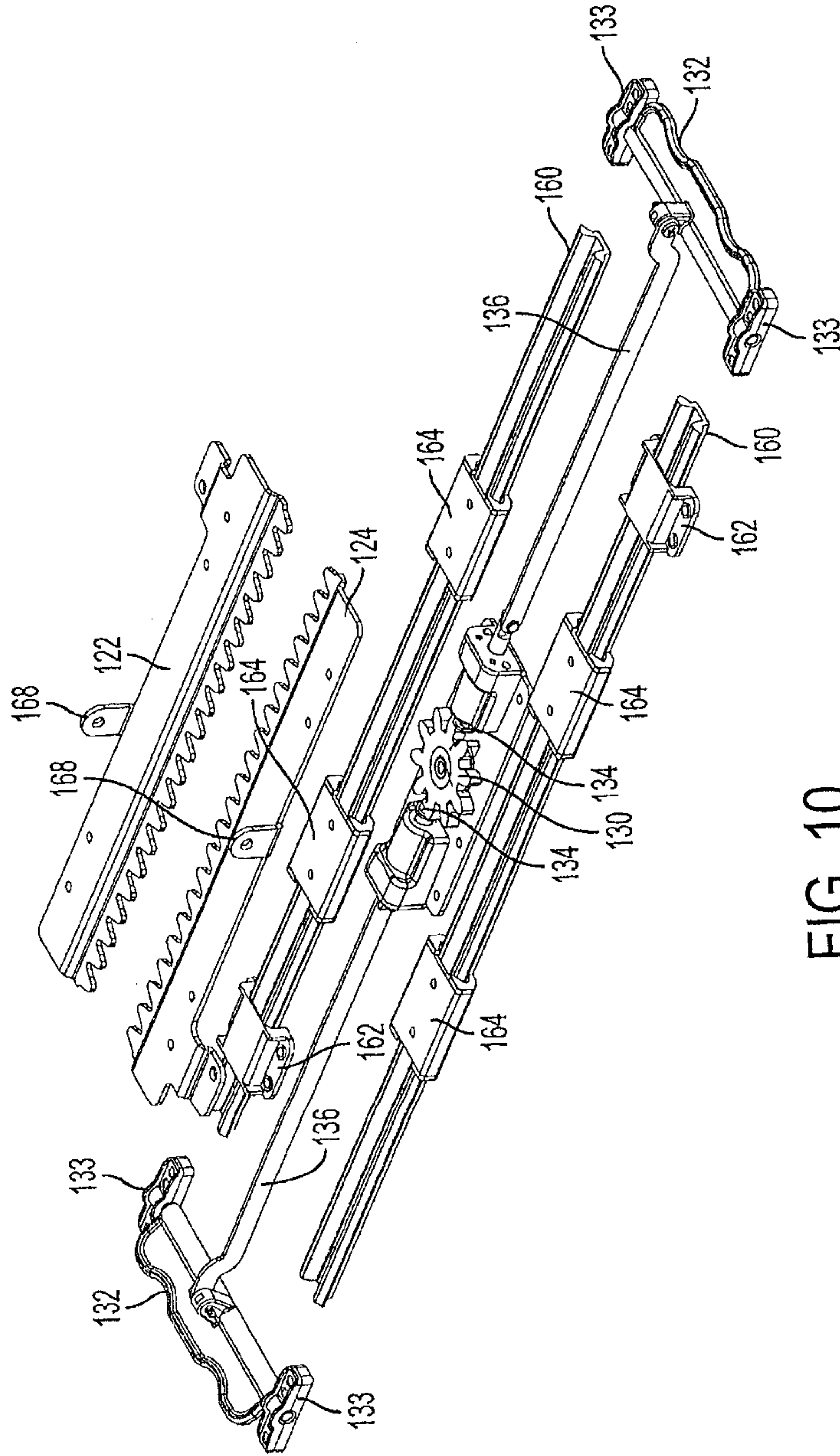


FIG. 10

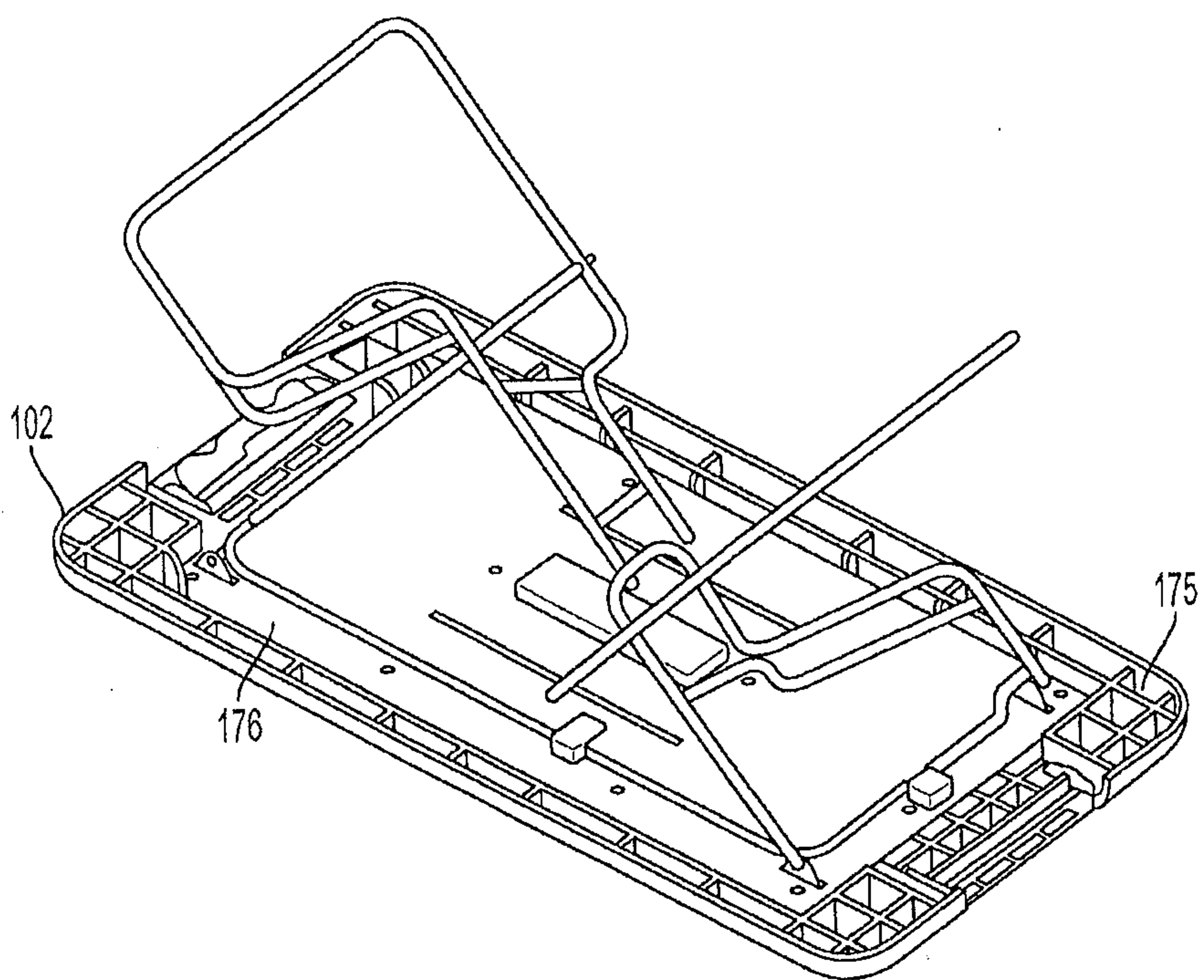


FIG. 11

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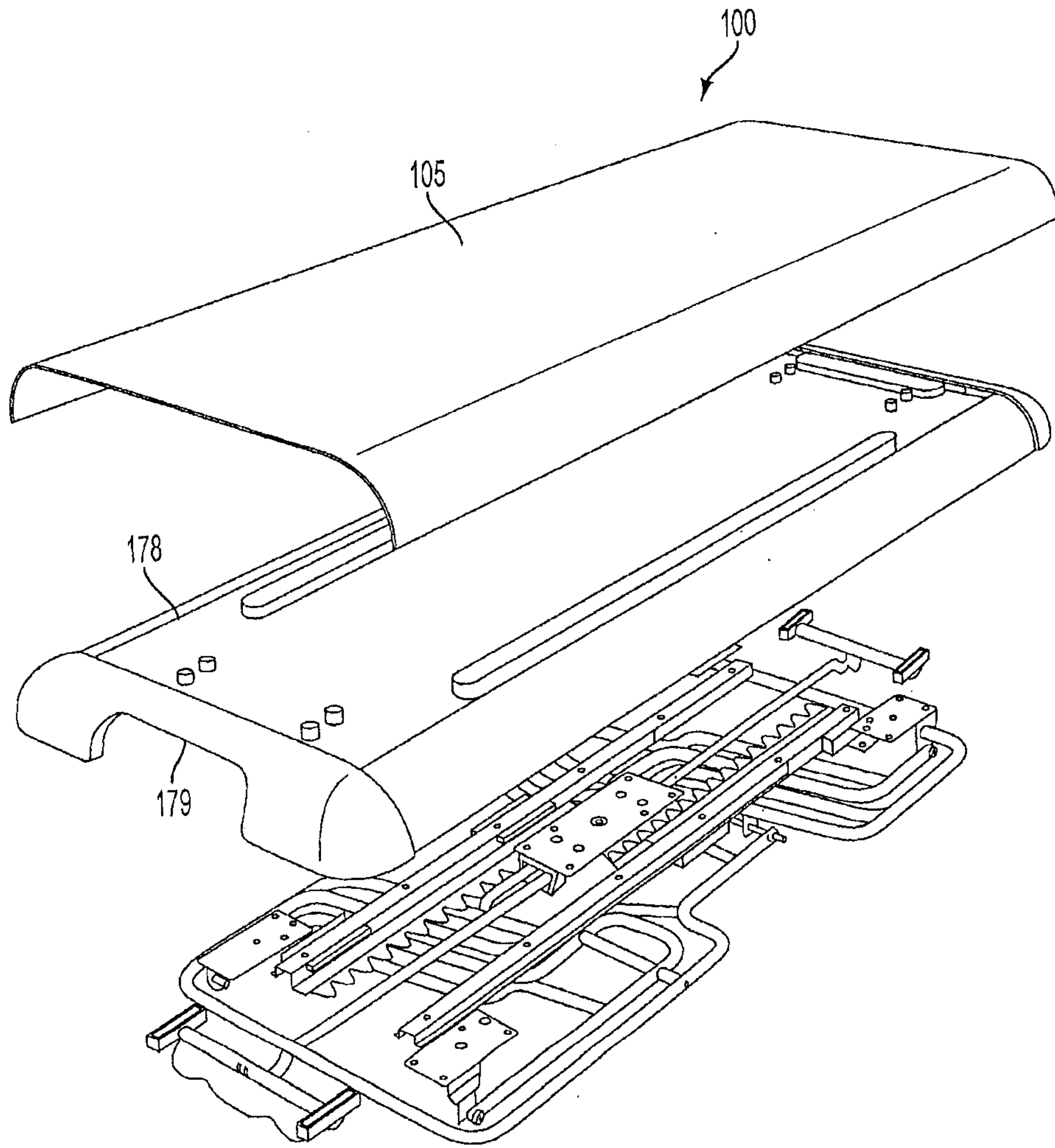


FIG. 12

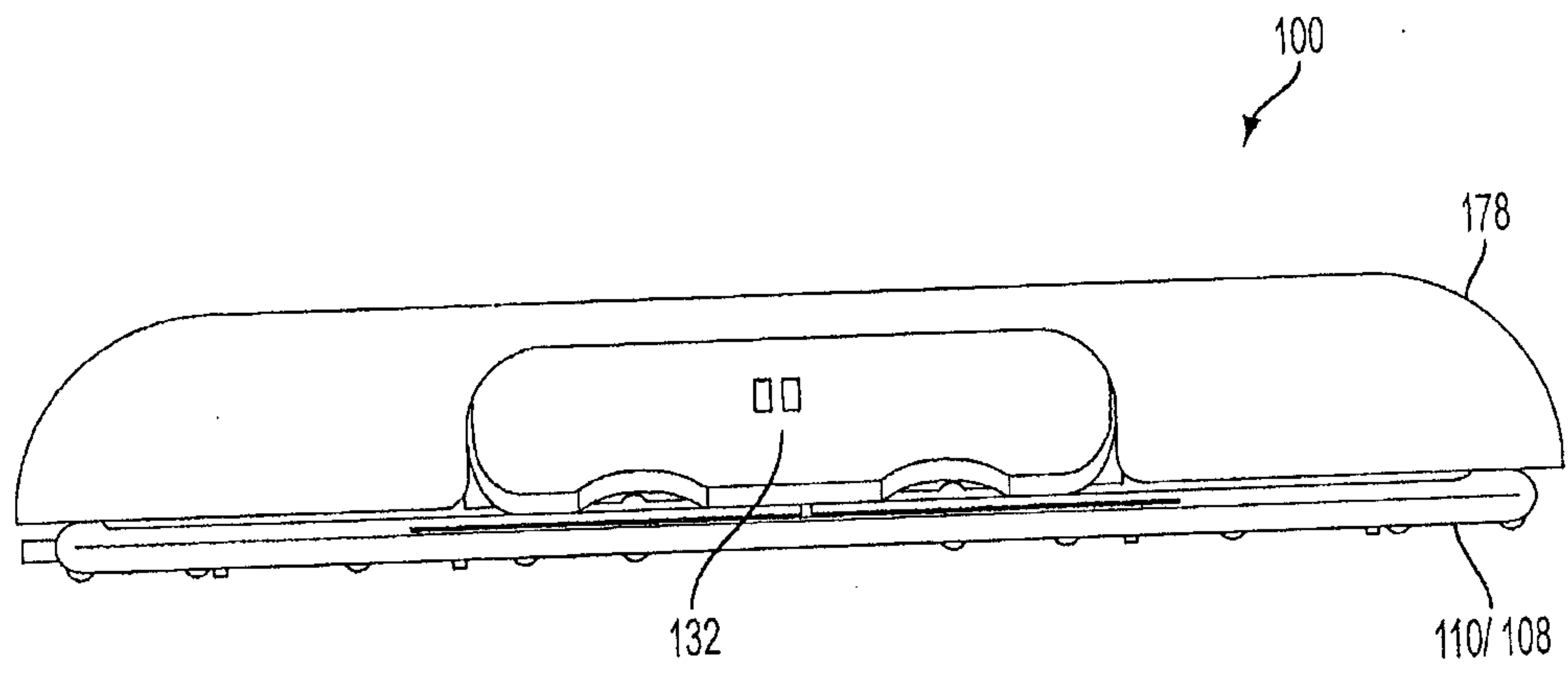


FIG. 13

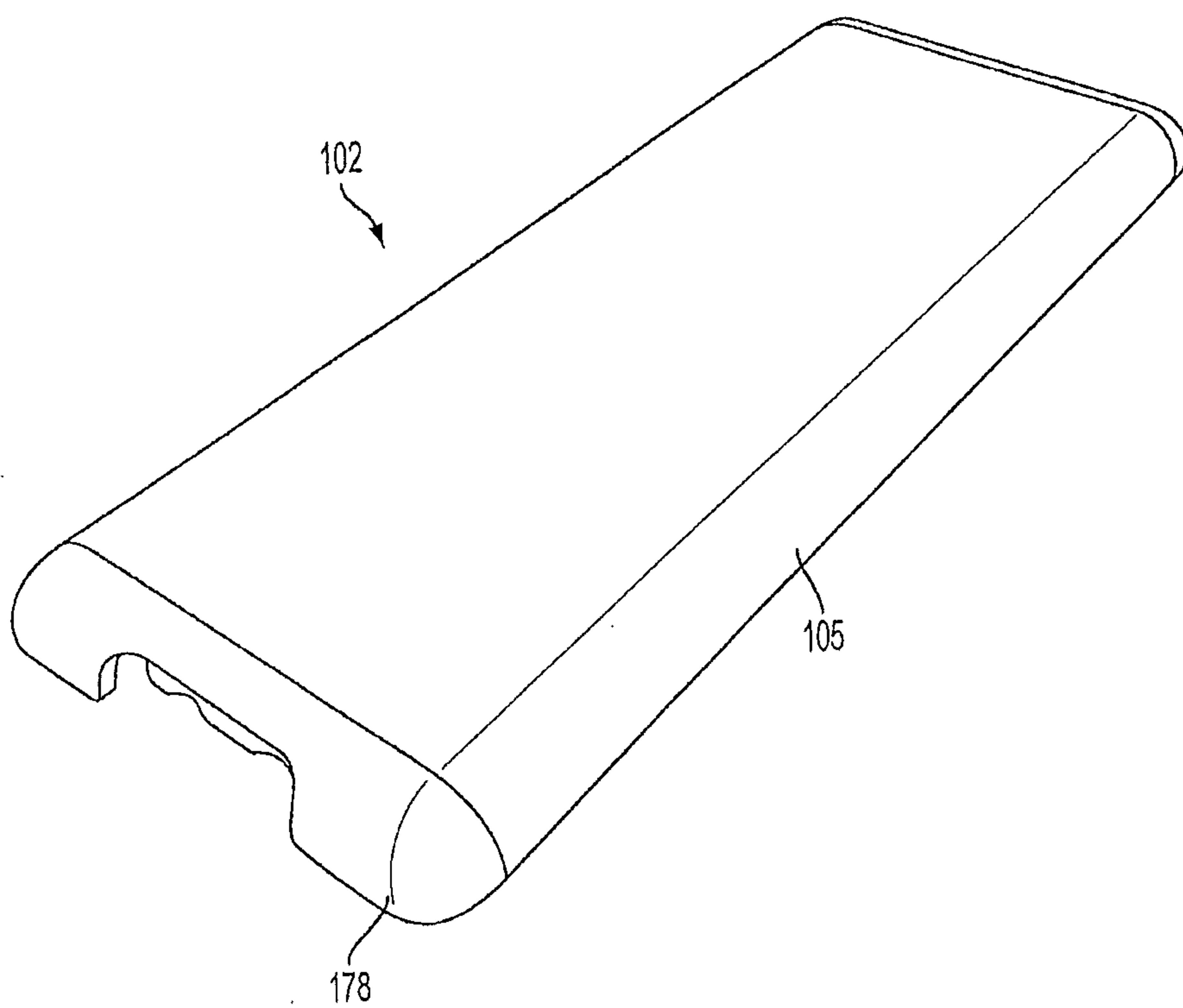


FIG. 14

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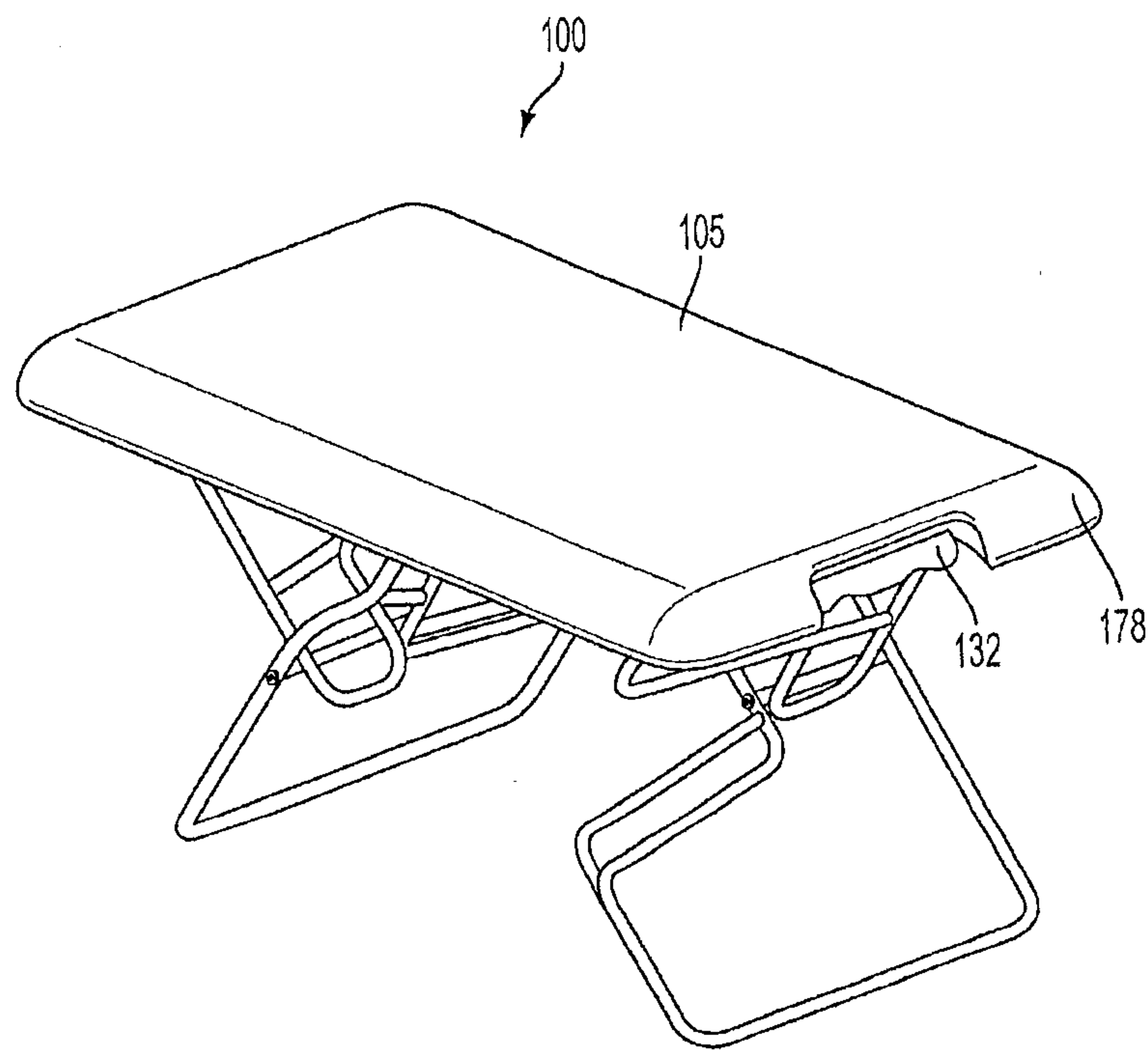


FIG. 15

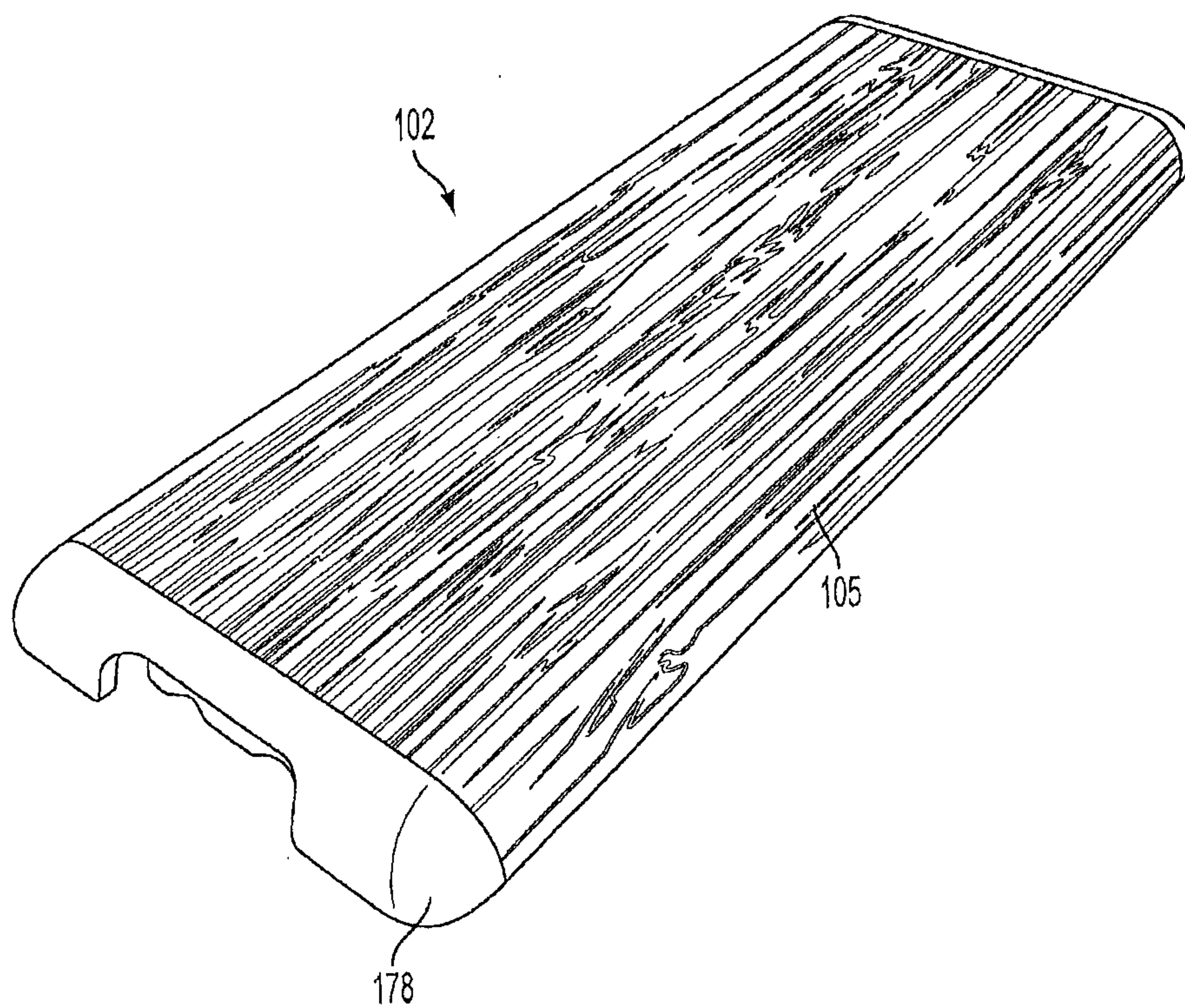


FIG. 16

