E. L. KUNZ.

FOLDABLE CHAIR.

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999,043. **Patented July 25, 1911.**

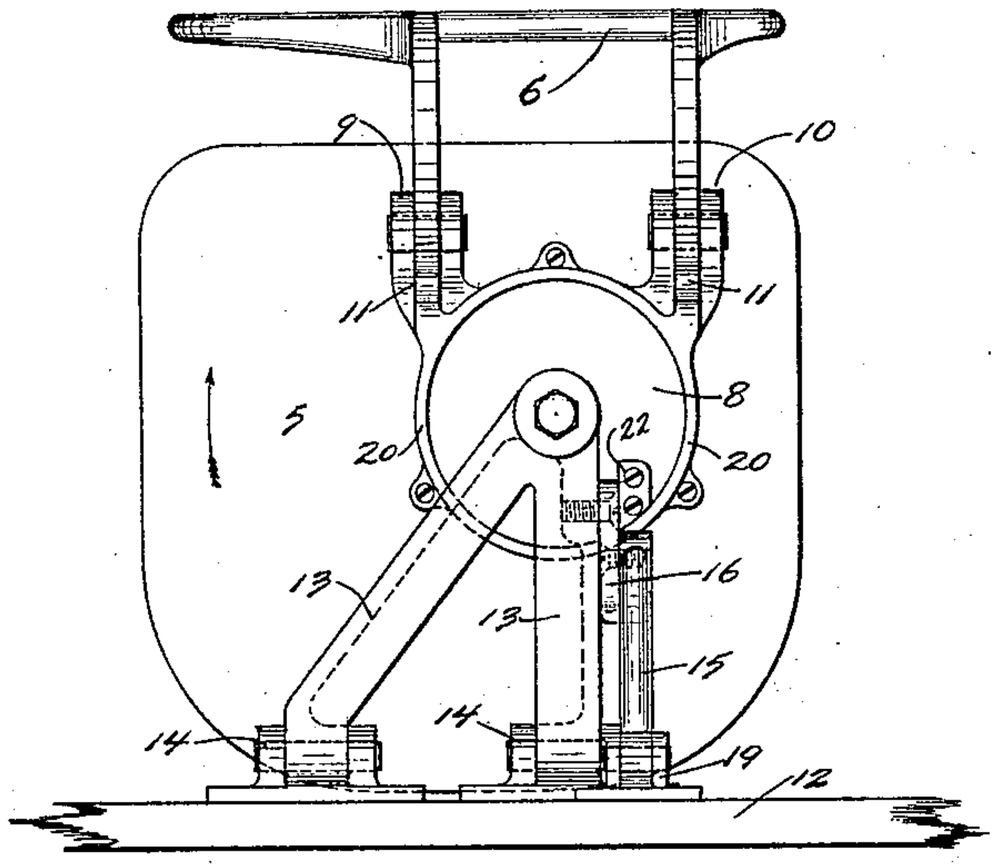

Fig. 2.

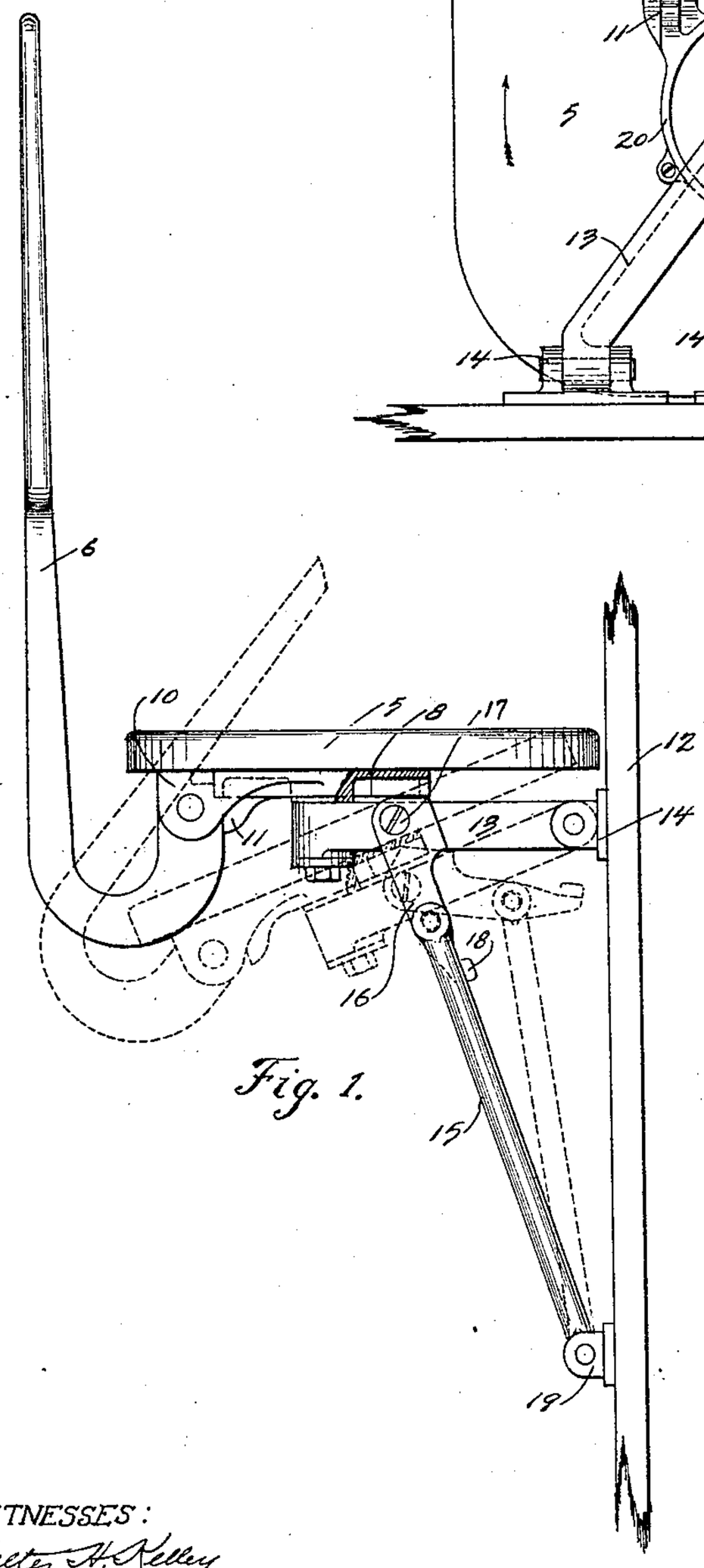

Fig. 1.

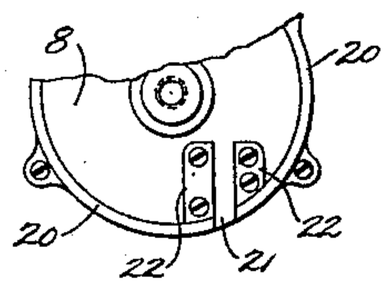

Fig. 3.

WITNESSES:

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FOLDABLE CHAIR.

999,043. Specification of Letters Patent. Patented July 25, 1911.

Application filed March 14, 1910. Serial No. 549,211.

To all whom it may concern:

Be it known that I, EDWARD L. KUNZ, a citizen of the United States of America, residing in the city of Buffalo, county of Erie, and State of New York, have invented certain new and useful Improvements in Foldable Chairs, of which the following is a full, clear, and exact description.

My invention relates generally to foldable chairs and more particularly to vehicle chairs.

My invention provides a chair which is very durable, simple in operation and cheap to manufacture.

My chair cannot be occupied when it is in a position to be folded; hence it cannot by any means accidentally fold or collapse when occupied.

My chair is so constructed that it can be secured to any vertical wall on the side of a vehicle body or similar structure. The main standard or support of the chair is secured to the structure holding it at some distance below the chair seat thus making an acute angle between such structure and the support and putting the strain caused by the weight of the occupied chair on the strongest part of the supporting structure.

Clearly my invention may be advantageously used in many places but particularly in vehicle bodies.

I have attained the advantages above set forth by the device herein shown and described but many other advantages resulting from its use will be evident to those skilled in the art.

In the accompanying drawings, forming part of this specification, similar characters of reference indicate similar parts throughout the several views of which:

Figure 1 shows in full lines a side elevation of my chair when unfolded, and in dotted lines the same is shown when partly folded. Fig. 2 is a bottom view of the chair shown in Fig. 1. Fig. 3 is a fragmentary view of the lock-plate.

5 is the seat and 6 the back support of my chair. 8 is the lock-plate which is secured to the bottom of the seat 5 and is provided with bifurcated lugs 9 and 10. Between these bifurcated lugs are pivotally mounted the lower ends of the back support 6, stops 11 (Fig. 1) being provided on the said lugs to prevent the back support from being thrown backward beyond a predetermined point.

12 represents any perpendicular wall or other supporting structure to which my chair may be attached, as, for instance, an automobile body.

13 is the seat hinge which is pivotally secured to the wall 12 by means of the pivotal lugs 14. At the outer end of the seat hinge 13 is rotatably secured the lock-plate 8. The seat hinge 13 is held in its horizontal position by means of the link 15 and the dog 16. The upper end of the dog 16 is pivotally secured to the seat hinge 13 preferably by means of the screw 17. The lower end of the said dog is pivotally connected to the upper end of the link 15 and at some point below this pivotal point it is provided with a stop 18 which prevents the said dog and said link from moving outwardly beyond a position where they will be in a substantially straight line with each other. The lower end of the link 15 is pivotally connected to the lug 19 which is secured to the wall 12.

The lock-plate 8 is made, preferably, cylindrical in general contour and is provided with a peripheral flange 20. At one point in the flange 20 is cut a slot 21 (Fig. 3) with which the dog 16 is engageable. The slot 21 is so located as to be in register with the dog 16 when the seat is revolved to the position shown in Figs. 1 and 2, in which position the seat 5 could not be conveniently occupied. Secured to the lock-plate 8, and having their inner faces in coincidence with the edges of the slot 21, are blocks 22. These blocks increase the bearing surface for the dog when the same is in engagement with the slot 21 and obviously they may be made integral with the lock-plate if desired instead of being secured thereto as shown.

When it is desired to close my chair, the seat 5 is revolved to the position shown in Figs. 1 and 2 when the dog 16 will be in register with the slot 21. The link 15 is then pushed inwardly and as the dog 16 enters the slot 21 the seat 5 is allowed to drop or swing on the seat hinge 13, which is clearly shown in dotted lines in Fig. 1. The back support 6 is also folded down upon the seat 5 and when the chair is in its lower or folded position the seat and back support will be folded up against the wall 12 thus occupying very little space when the chair is not in use.

It is evident that, when the seat is raised

to the upper position and is revolved (as indicated by the arrow in Fig. 2), so as to be occupied, the upper edge of the dog 16 will bear against the flange 20 of the lock-plate 8 and while thus keeping the dog in a straight line with the link 15 will prevent the seat from collapsing or by any accident from being folded up while occupied.

Obviously some modifications of the details herein shown and described may be made without departing from the spirit of my invention and I do not wish to be limited to the exact embodiment herein shown and described.

Having thus described my invention what I claim is:

1. As an article of manufacture, a foldable chair adapted to be secured to a vertical wall, comprising a seat, a lock-plate secured to the bottom of said seat, a seat hinge pivotally secured to said wall, said lock-plate being rotatably mounted on said seat hinge, foldable supporting means carried by said seat hinge and said wall and locking means carried by said seat whereby said supporting means may be locked against folding when the said chair is occupied.

2. As an article of manufacture, a foldable chair adapted to be secured to a vertical wall, comprising a seat, a lock-plate secured to the bottom of said seat, provided with a peripheral flange and a slot cut in said flange at one point only, a seat hinge pivotally secured to said wall, said lock-plate being revolubly mounted on said seat hinge and means carried by said seat hinge and said wall whereby said seat is held in its upward position except when said means are in register with said slot.

3. As an article of manufacture, a foldable chair adapted to be secured to a vertical wall, comprising a seat, a back support to the bottom of said seat, provided with a peripheral flange and a slot cut in said flange at one point only, a seat hinge pivotally secured to said wall, said lock-plate being revolubly mounted on said seat hinge, a dog pivotally secured to said seat hinge and provided with a stop at its lower end, a link pivotally secured to said wall, said dog and said link being hinged together, whereby said seat may be securely locked in its horizontal position except when said dog is in register with said slot.

4. As an article of manufacture, a foldable chair adapted to be secured to a vertical wall, comprising a seat, a back support pivotally secured to said seat, a lock-plate secured to the bottom of said seat, provided with a peripheral flange and a slot cut in said flange at one point only, reinforcing lugs secured to said lock-plate on each side of said slot, a seat hinge pivotally secured to said wall, said lock-plate being rotatably mounted on said seat hinge, a dog pivotally secured to said seat hinge and provided with a stop at its lower end, a link pivotally secured to said wall, said dog and said link being hinged together, whereby said seat may be securely locked in its horizontal position except when said dog is in register with said slot.

In testimony whereof, I have hereunto set my hand in the presence of two witnesses.

EDWARD L. KUNZ.

Witnesses:

JOSEPH H. MORGAN,

J. WM. ELLIS.