

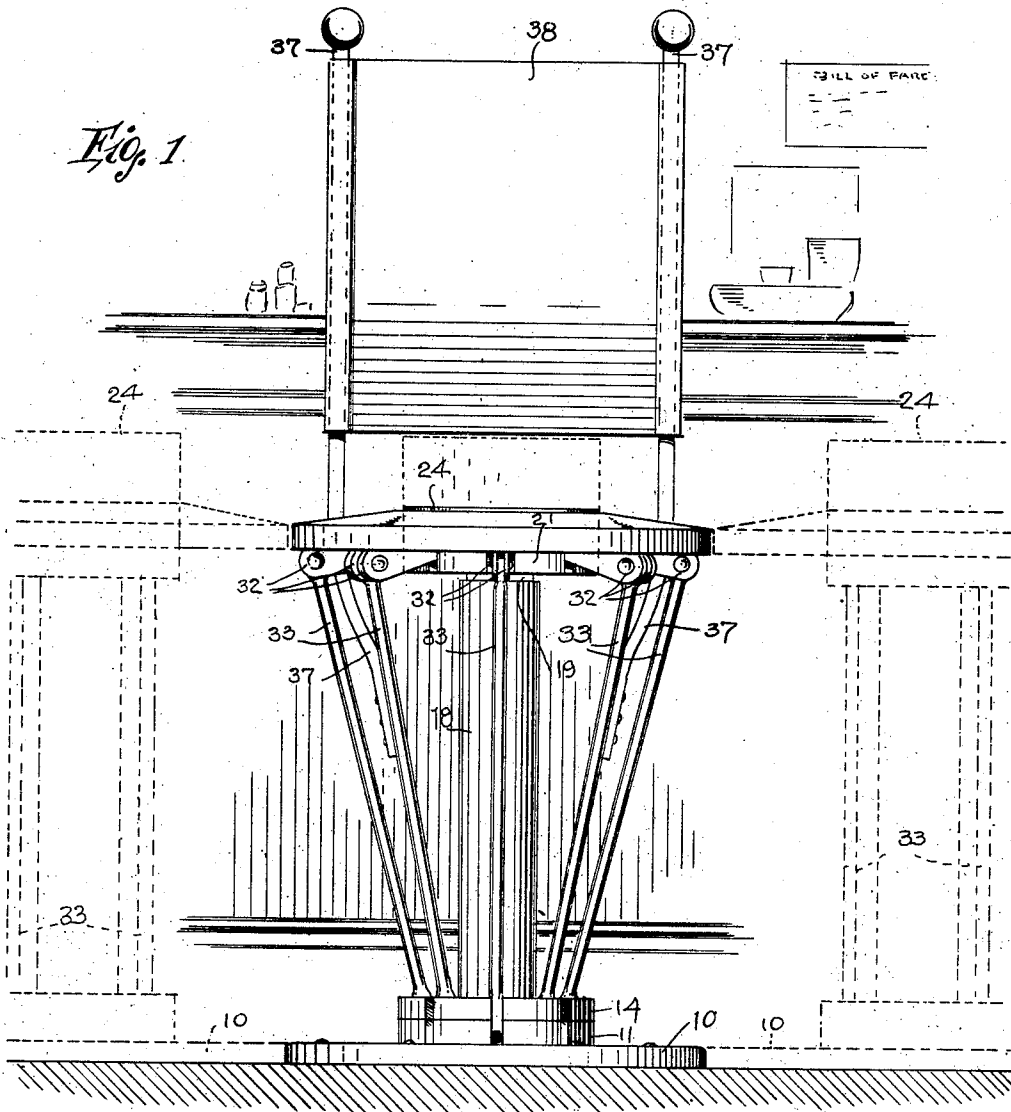
R. A. COE.
FOLDING CHAIR.

APPLICATION FILED AUG. 17, 1912.

1,054,906.

Patented Mar. 4, 1913.

3 SHEETS—SHEET 1.



WITNESSES

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1,054,906.

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3 SHEETS—SHEET 2.

Fig. 3

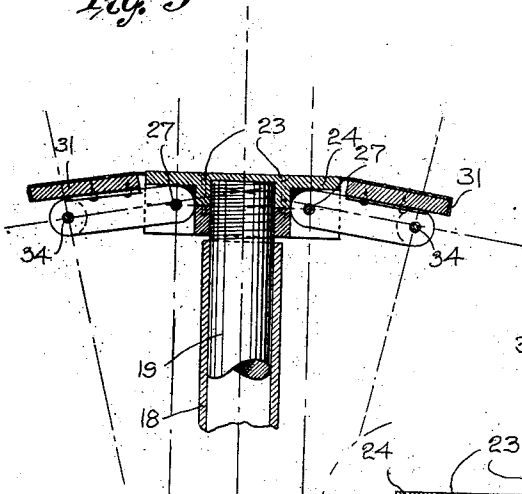


Fig. 4

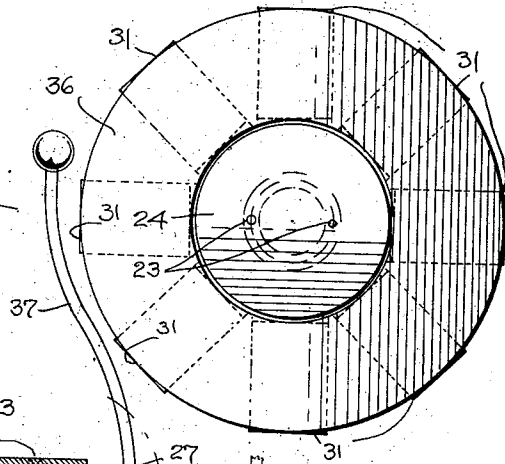


Fig. 2

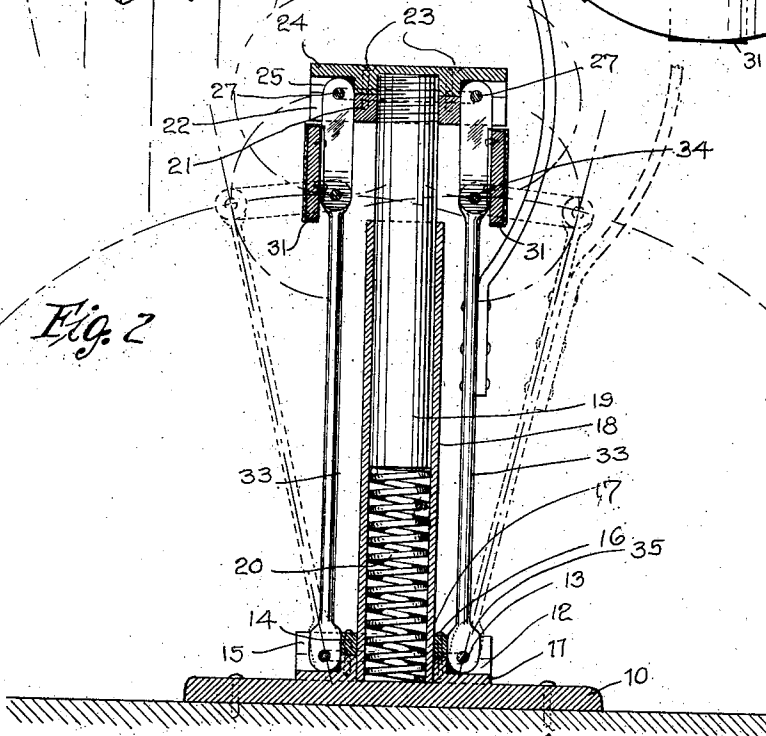
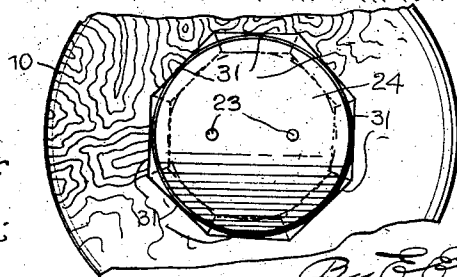


Fig. 5



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3 SHEETS—SHEET 3.

Fig. 6

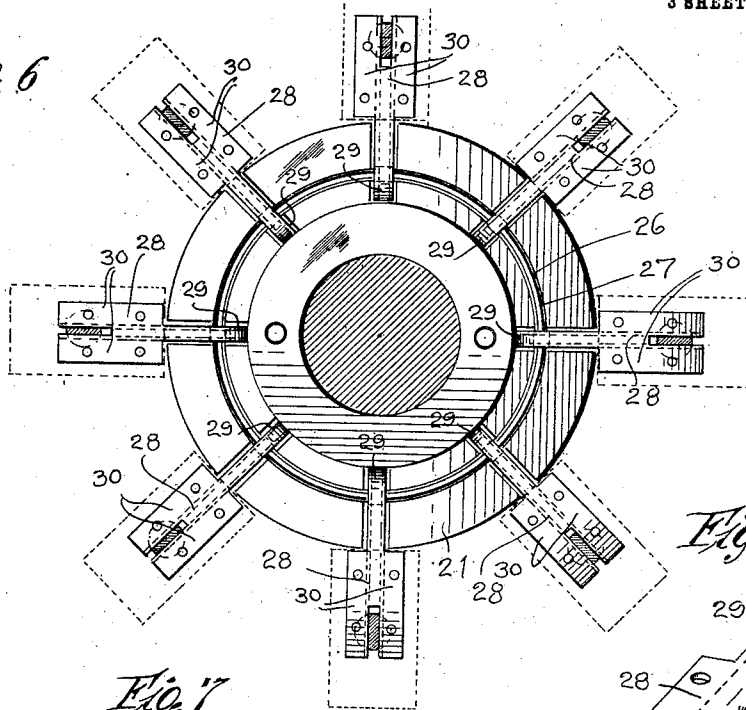


Fig. 7

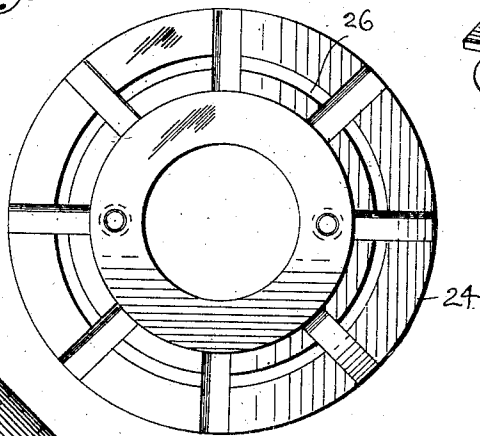


Fig. 8

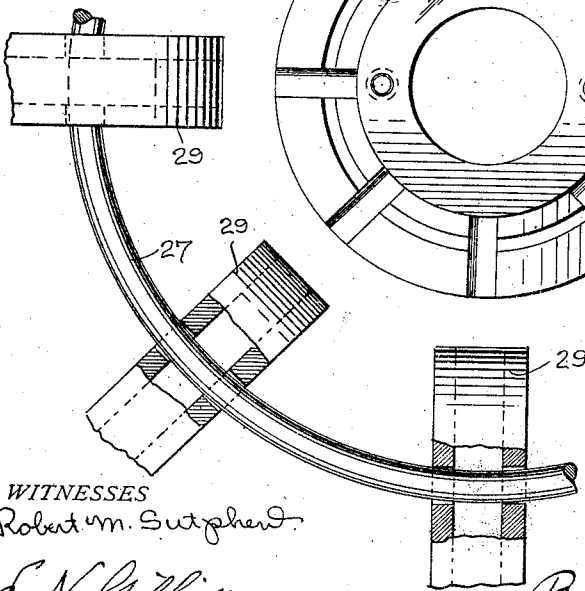
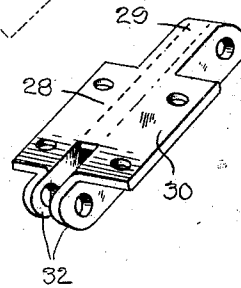


Fig. 9



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UNITED STATES PATENT OFFICE.

ROBERT A. COE, OF STRATFORD, OKLAHOMA.

FOLDING CHAIR.

1,054,906.

Specification of Letters Patent.

Patented Mar. 4, 1913.

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To all whom it may concern:

Be it known that I, ROBERT A. COE, a citizen of the United States, residing at Stratford, in the county of Garvin and State of Oklahoma, have invented certain new and useful Improvements in Folding Chairs, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to furniture and has special reference to a chair suitable for use in stores, at soda fountains, and the like.

The principal object of the invention is to provide a new and improved form of collapsible chair especially adapted when closed, to take up the minimum of floor space.

Another object of this invention is to provide a collapsible chair intended for use in public halls such as opera houses, auditoriums, etc., where a large crowd gathers so that when the chair is collapsed ample space is provided for easy exit in case of a panic or at other times when there is no disturbance. This also permits of the ready cleaning of the hall by janitors, or others.

A still further object of the invention is to provide an improved means whereby the chair back and the standards supporting the seat will be so connected that the back will be simultaneously expanded with the expansion of the seat.

A third object of the invention is to provide an improved form of seat having a collapsible rim.

In the drawings like characters of reference indicate like parts in the several views, and:—Figure 1 is a front view of a chair constructed in accordance with this invention. Fig. 2 is a vertical section through the chair showing the operation thereof, certain of the parts being omitted. Fig. 3 is a view in section showing the expansion of the seat when lowered. Fig. 4 is a plan view of the seat expanded. Fig. 5 is a view of a portion of the expanded seat with certain of the parts removed in order to show the ring receiving groove used herewith. Fig. 6 is an enlarged detail view of the central portion of the device showing the manner of connecting the collapsible rim with the center of the seat. Fig. 7 is a bottom view of a certain cover plate arranged to rest on top of the center portion of Fig. 6. Fig. 8 is a detail

view showing the manner of holding the connecting links of the rim by a single wire. Fig. 9 is a detail view of one of the connecting links.

In carrying out the objects of the invention there is provided a base 10 whereon is located a centrally disposed boss 11 having spaced slots 12 extending radially around its periphery. This boss also has a suitable groove for the reception of a wire ring 13 and on top of this boss rests a cover plate 14 provided with a mating groove to the groove in the boss 11 so that the wire ring is held tightly clamped between these two grooves, and this cover plate is likewise provided with radial slots 15 corresponding in number and position to the slots 12. These two parts are held together by screws 16. The cover plate 14 and boss 11 are provided with a centrally disposed recess 17 wherein is mounted a tube 18. In the tube 18 is slidably mounted a plunger 19 which is constantly urged upward by means of a spring 20, one end of which bears against the bottom of the recess 17 while the other end bears against the bottom of the plunger 19. On top of this plunger is screwed a member 21 provided with a series of radially disposed recesses 22 alined with the recesses in the base portion of the device and secured to this member 21 by means of screws 23 is a cover plate 24 likewise provided with recesses 25 forming the center of the seat. These members 21 and 24 are provided with annular recesses 26 wherein is held a wire ring 27.

In order to provide a collapsible rim to the seat there are employed certain links 28 having ends 29 which are held in the recesses 22 and 25 on the wire 27. These links are provided with flanges 30 upon which are secured plates 31, the flanges having suitable screw holes for this purpose. Each of these links is bifurcated to provide a pair of ears 32 at its outer end and between these ears is held one end of an arm 33, the arm being secured to the ears by means of a pivot bolt or rivet 34. The other end of each arm 33 is provided with a perforated ear 35 where-through passes the wire 13. The seat and rim thus formed are covered with a suitable fabric 36 secured thereto in any desired manner. To two of the arms 33 are secured upwardly extending back members 37 which are connected by a fabric 38.

In the operation of the device the chair

normally is collapsed with the rim hanging down as shown in full lines in Fig. 2. When, however, weight is placed upon the center of the seat the plunger is forced downward and the arms 33 moved outward radially at their upper ends, thus carrying the links outward also. At the same time this radial movement of the arms forces the members 37 outward and away from each other so that the flexible fabric back is likewise expanded.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

15 Having thus described the invention, what is claimed as new, is:—

1. A chair of the character described comprising a base plate, a sleeve extending from said base plate, a collar mounted upon said 20 base plate and surrounding said sleeve, said collar comprising upper and lower sections having radial grooves formed therein and being also provided with a circular groove forming a seat, supporting arms having their lower ends positioned in said radial 25 grooves, a securing ring for the lower end of said arms positioned in said circular

groove, a plunger in said sleeve, a spring normally urging said plunger upwardly, a head carried by said plunger, links connecting said head with said arms, and platforms carried by said links. 30

2. A chair of the character described comprising a base, a collar carried by said base, a sleeve extending from said base through 35 said collar, a spring in said sleeve, a plunger in said sleeve resting upon said spring, supporting arms pivotally connected with said collar, an enlarged head at the upper end of said plunger, links pivotally connected with 40 said head and with said arms to swing said arms outwardly when said plunger is pressed downwardly, each of said links comprising a body portion being provided at 45 each end with a transversely extending opening, side wings extending from said body portion, and supporting plates secured to said side wings.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

ROBERT A. COE.

Witnesses:

E. T. COE,

E. J. MURPHY.