J. H. OFFERMAN AND K. OBERHUBER.

CHAIR.

APPLICATION FILED MAY 24, 1920.

1,371,516. **Patented Mar. 15, 1921.**

2 SHEETS—SHEET 1.

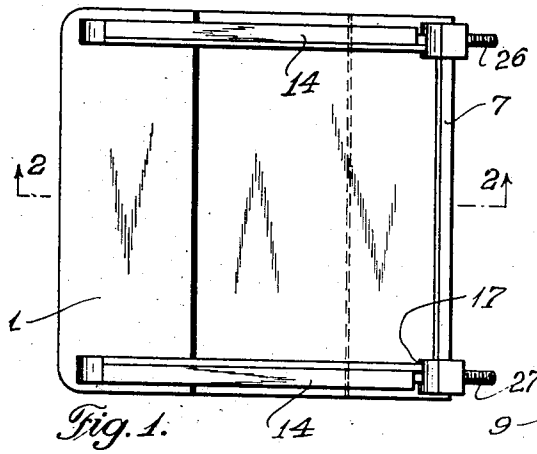


Fig. 1.

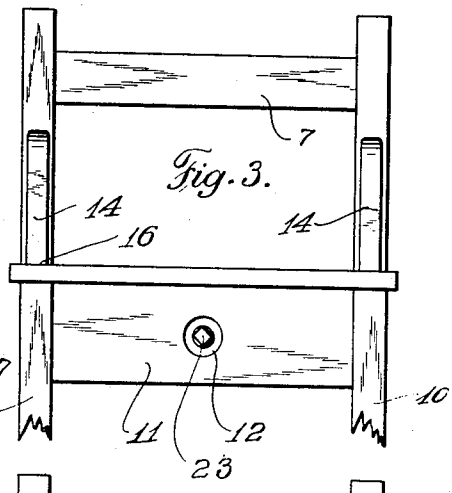


Fig. 3.

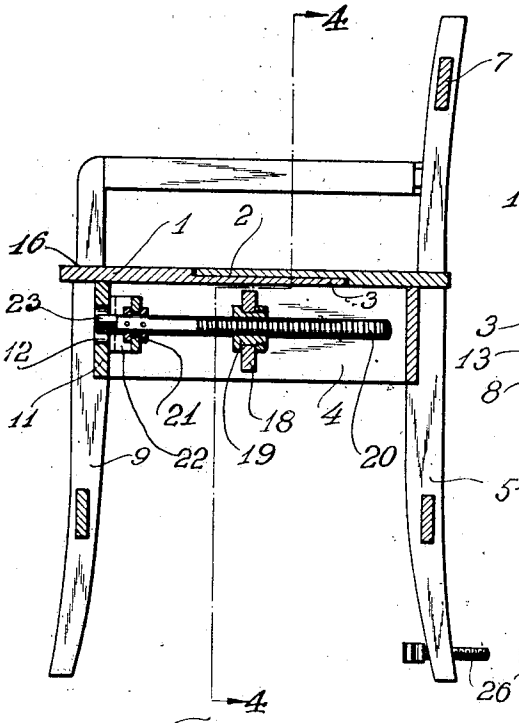


Fig. 2.

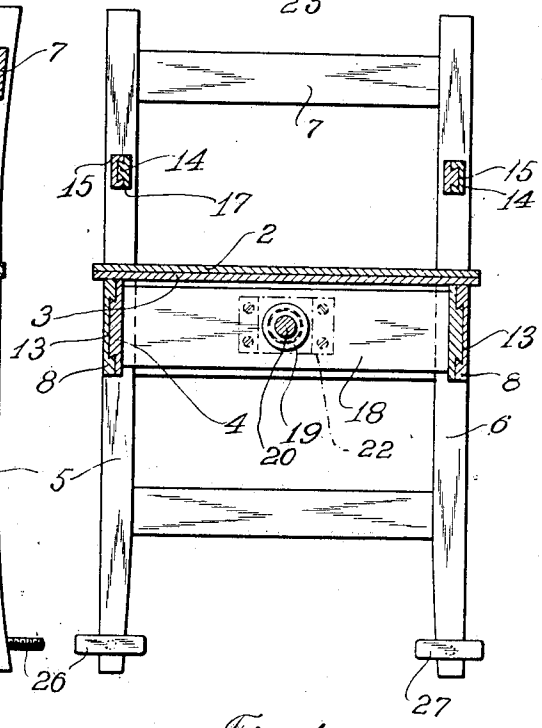


Fig. 4.

Inventors

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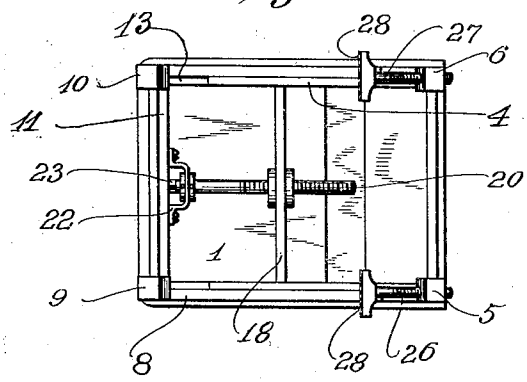
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2 SHEETS—SHEET 2

Fig. 5.



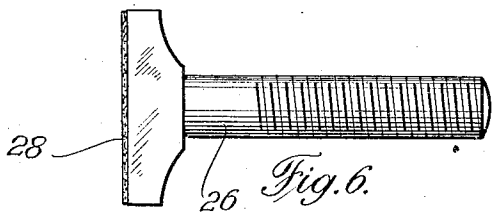


Fig. 6.

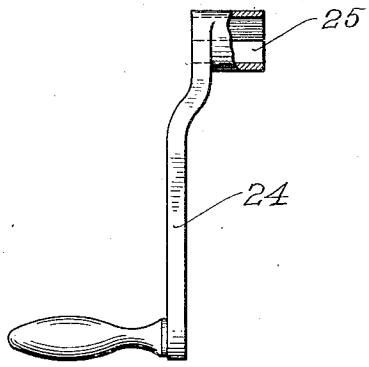


Fig. 7.

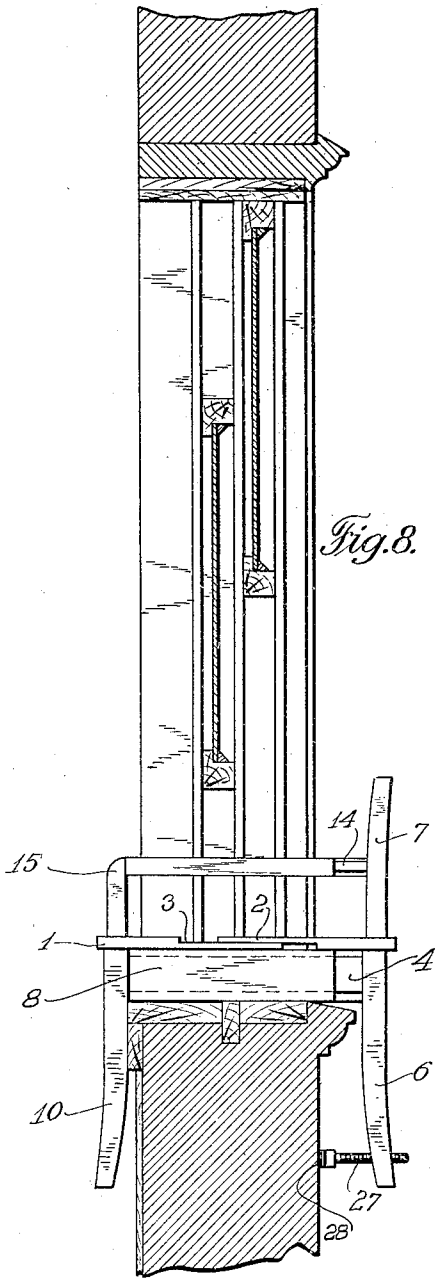


Fig. 8.

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UNITED STATES PATENT OFFICE.

JOHN H. OFFERMAN AND KARL OBERHUBER, OF NEW YORK, N. Y.

CHAIR.

1,371,516. Specification of Letters Patent. Patented Mar. 15, 1921.

Application filed May 24, 1920. Serial No. 383,975.

To all whom it may concern:

Be it known that we, JOHN H. OFFERMAN and KARL OBERHUBER, citizens of the United States, and residents of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Chairs, of which the following is a specification.

Our invention relates to improvements in arm chairs, especially designed for cleaning windows of buildings.

The ordinary and accustomed method of cleaning windows by standing or sitting on the window-sill is hazardous and very often causes loss of life. By adopting our improved window chair, fear which almost invariably accompanies the occupation of window cleaning is practically eliminated and the said occupation ceases to be a hazardous one.

We are aware of the fact that there are previous patented window chairs, but we consider our invention to be more practicable, durable and at the same time safer, the latter purpose being uppermost in our minds during the course of developing our invention.

The window cleaner sits upon the chair without any fear of losing his balance during the process of cleaning the windows. When he is forced to lean backward he is supported by the back of the chair, when caused to move sideward he is prevented from falling by the wings or side-arms of the chair. An especial and important feature of the chair is the adjustability of the seat and side-arms. This is accomplished without creating any openings in the seat or side-arms, while regulating the seat and side-arms to any desired position. The side-arms are so arranged as to move simultaneously with the seat.

The mechanical operation of our invention is simple and its use manifold. The chair is adapted to be used either for ordinary sitting purposes, or for any work required at the outside of a window.

The objects of our invention are to construct and provide a chair with extensible side-arms or wings and an extensible seat which can be mechanically adjusted without causing any openings to exist in the side-arms or seat when secured to a window-sill, and to provide adjustable abutments at the rear legs of the chair so that when the chair is properly adjusted the abutments will engage the outside wall of the window-sill, thereby firmly securing it.

Another object of our invention is to provide a chair that may be readily, easily and securely adjusted and placed upon a window-sill of a building, and safely hold an occupant.

A further object of our invention is to provide a continuous platform for a standing person doing exterior work.

A still further object of our invention is to provide a chair that may be conveniently placed in any part of the house, thus accomplishing the uses made of an ordinary house chair.

In order that the objects specifically stated above and other objects in view may be clearly understood we give the following description, reference being made to the accompanying drawings, which represent a part of the specification and in which:

Figure 1 is a plan view of the chair.

Fig. 2 is a longitudinal sectional view of the same taken on line 2—2 of Fig. 1.

Fig. 3 is a front elevation of a portion of the chair.

Fig. 4 is a cross sectional view of the chair taken on line 4—4 of Fig. 2.

Fig. 5 is a bottom view of the chair.

Fig. 6 is a view of an adjustable abutment.

Fig. 7 is a view of the hand crank.

Fig. 8 is a view of the side elevation of the chair showing its position when in use upon a window-sill.

Referring to the drawings: Fig. 2 represents a longitudinal sectional view of the window chair, similar in shape to an ordinary chair with side-arms but differing in the following:

The adjustable or extensible seat 1 is composed of two step-like parts overlapping at substantially the center of the chair and constructed to slide over each other between those portions of the seat marked 2 and 3, by means of the mechanism hereinafter described.

Each part of the adjustable seat is attached to an adjustable frame, composed of an inner frame member 4, provided with a pair of rear legs 5 and 6, and a chair back 7, and an outer frame-member 8, provided with a pair of front legs 9 and 10, a frontal connecting plate 11 having an aperture 12 at its center. The adjustable frame-members are dove-tailed on both sides as shown

at 13, so as to cause the parts of the frame to slide over each other by the operation of the mechanism hereafter described.

The adjustable seat rests upon the adjustable frame, one part of which is secured to the inner frame-member, the other part to the outer frame-member.

The side-arms 14 of the chair, are similarly adjustable and have dove-tailed guides 15, permitting each part to slide alongside the other. The front part of each side-arm is attached to the front of the seat as indicated at 16, the other part of each side-arm being attached at 17 to the back of the chair indicated at 7.

A connecting member or cross bar 18 having an aperture disposed opposite the aperture of the frontal connecting plate 11, is secured to and connects the sides of the inner frame-member; a stationary nut 19 is secured in said aperture of the connecting member. A threaded spindle 20 is rotatably mounted in bearing 21 of bracket 22 and engages said nut 19. A square head 23 provided at the free end of the spindle and facing the aperture 12 of connecting plate 11 may be engaged by a hand crank 24 seen in Fig. 7, having a square shaped socket 25, by means of which the threaded spindle 20 may be turned, and the distance between the frames may be adjusted at will without causing the forming of a free space between the overlapping seat members and simultaneously securing the chair to the window-sill.

A pair of threaded abutments 26 and 27 covered with felt 28 or similar material used to protect the window-sill from being injured, are provided near the ends of the rear legs which may be readily adjusted against the outer wall below a window.

When the chair is to be used for cleaning windows or the like it is placed astride in a position similar to that indicated in Fig. 8, the abutments are adjusted and the crank handle turned, thereby adjusting the frame, the seat and the side-arms, until the abutment and front legs of the chair securely abut the window-sill.

Having thus described our invention, and reserving for ourselves the right to make changes and improvements thereon, without departing from the broad scope of our invention, we claim:

1. In an adjustable window chair having a back, the combination of slidably connected front and rear members, comprising an outer and inner chair frame, respectively, the former provided with a pair of front legs and a frontal connecting plate, an aperture at the center of said plate, the inner chair frame provided with a pair of rear legs and a chair back, an extensible seat composed of two step-like parts overlapping at substantially the center of the chair, each seat part attached to one of the slidable chair frames, extensible side-arms secured at one end to the front part of said extensible seat and at the other to the back of the chair. A connecting member provided between the sides of the inner chair frame, an aperture in said connecting member disposed opposite the aperture of the frontal connecting plate, a stationary nut secured in said aperture of the connecting member, a bracket attached at the inner face of the frontal connecting plate, a bearing provided therein, a threaded spindle rotatably lodged in said bearing and having a square head facing the aperture of said connecting plate, the threaded spindle portion engaging said stationary nut, a detachable hand crank having a square shaped socket adapted to engage said square head of the spindle, a pair of adjustably threaded abutments provided at the rear legs adapted to be rested against the outer wall below a window.

2. A window chair comprising a back terminating in two rear legs, an adjustable frame composed of an inner and an outer member, an adjustable seat resting upon said adjustable frame, one part of which being attached to said inner frame-member, the other part to said outer frame-member, adjustable side arms attached at one end to the front part of said adjustable seat, and at the other end to the back of the chair, a cross bar secured to and connecting the sides of the inner frame-member, a nut provided at its center, a threaded spindle passing through and engaged by said nut and rotatably mounted at the front part of the outer frame-member, a square head formed at the free end of the spindle operable through said front part of the outer frame and means for operating said spindle thus facilitating the adjustment of the chair, adjustable abutments fastened at the ends of the two rear legs and adapted to engage the outer wall below a window.

3. A window chair comprising a back terminating in rear legs, an extensible frame composed of an inner and an outer member, an extensible seat composed of two interlocking parts resting upon said frame, one part of which being secured to said inner frame-member, the other part to said outer frame-member, extensible side-arms secured at one end to the front part of the aformentioned seat, and at the other end to the back of the chair, a cross bar secured to and connecting the sides of the inner frame-member, a nut provided at its center, a threaded spindle passing through and engaging said nut, a bearing attached at the front part of the outer member, adapted to rotatably support said spindle, a square head formed at the one end of the spindle through said front part of the outer frame for facilitating its operation, thus providing for the

adjustment of the chair members and adjustable abutments fastened to the two rear legs adapted to engage a wall.

4. A window chair comprising a back terminating in rear legs, a dove-tailed frame composed of an inner and an outer member, an extensible seat, having two overlapping parts, resting upon said frame, one part of which being secured to said inner frame-member, the other part to said outer frame-member, dove-tailed side arms secured at one end to the front part of the aforementioned seat, and at the other end to the back of the chair, a cross bar secured to and connecting the sides of the inner frame-member, a nut provided at its center, a threaded spindle passing through and engaging said nut, a bearing in which said spindle turns and is supported, a square head formed at the free end of the spindle operable through the front part of the outer frame and means for operating said square head spindle, thus facilitating the adjustment of the chair, and adjustable clamps fastened to the two rear legs.

5. A window chair comprising in combination a back terminating in rear legs, an extensible frame composed of an inner and an outer member, an extensible seat secured to and resting upon said frame, extensible side-arms, a cross bar secured to and connecting the sides of the inner frame-member, a nut provided at its center, means for simultaneously adjusting the above mentioned extensible parts of the chair longitudinally, and adjustable abutments fastened to the legs of the chair.

6. In an adjustable window chair having a back terminating in rear legs, the combination of a sliding frame, a sliding seat, extensible side-arms, each side-arm consisting of two dove-tailed parts, thereby forming a slide, the front part of each side-arm being connected to the front part of the said sliding seat and hinder parts to the back of the chair, means for adjusting the said sliding frame, sliding seat and extensible side-arms, adjustable threaded abutments provided at the rear legs adapted to be rested against the outer wall below a window.

7. In an adjustable arm chair comprising two slidably mounted frames engaged with each other through dove-tailed connections, an extensible seat comprising two overlapping members, each member attached to one of the frames, means for adjusting the distance between said frames at will without causing the forming of a free space between the overlapping seat members, and adjustable means connected with one of the frames and adapted to engage a wall.

Signed at New York in the county of New York and State of New York this 23rd day of April A. D. 1920.

JOHN H. OFFERMAN.
KARL OBERHUBER.