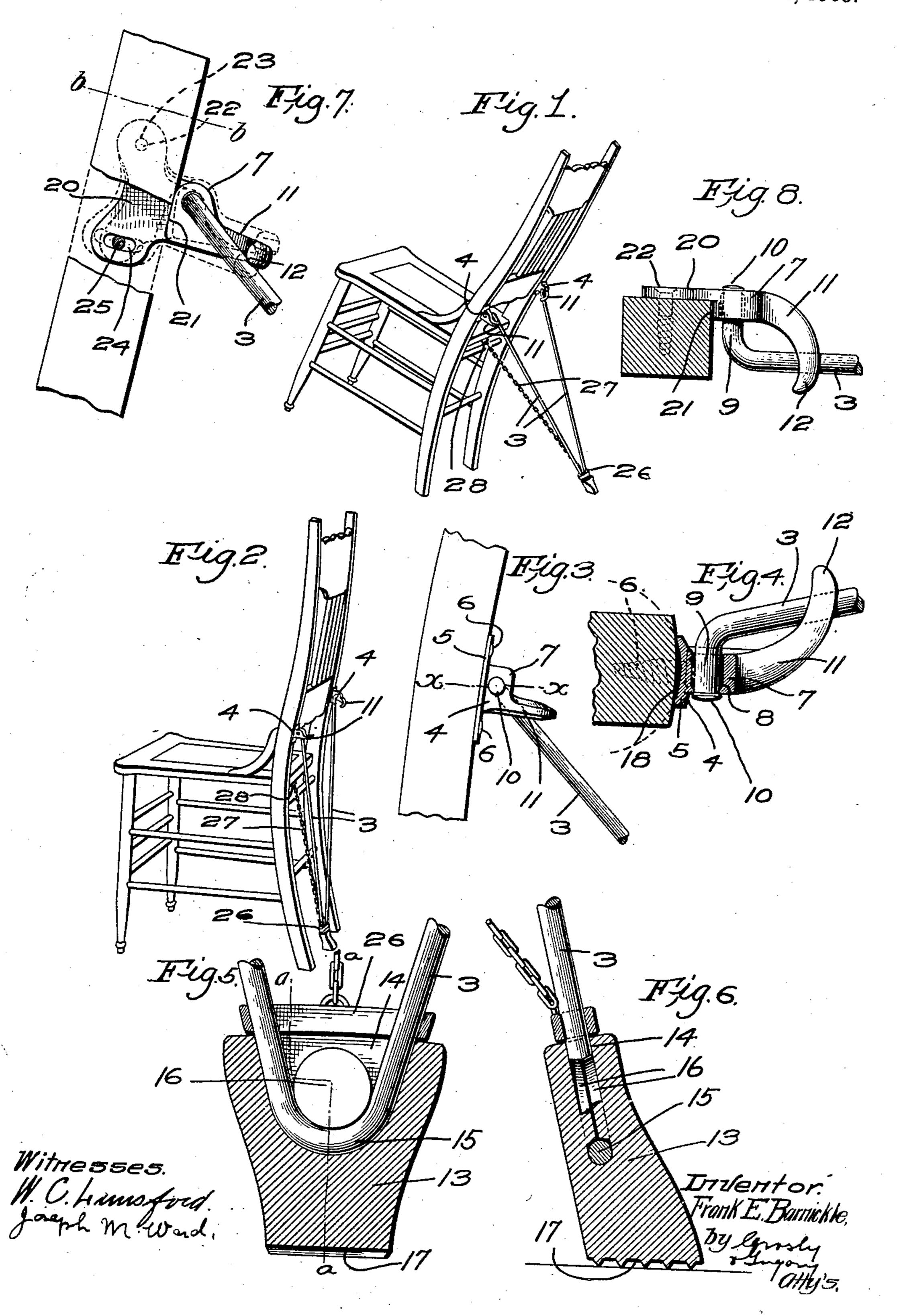
F. E. BARNICKLE.

RECLINING ATTACHMENT FOR CHAIRS.

APPLICATION FILED NOV. 11, 1907.

912,354.

Patented Feb. 16, 1909.



UNITED STATES PATENT OFFICE.

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RECLINING ATTACHMENT FOR CHAIRS.

No. 912,354.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed November 11, 1907. Serial No. 401,627.

To all whom it may concern:

Be it known that I, Frank E. Barnickle, a citizen of the United States, residing at Rochester, county of Strafford, State of New 5 Hampshire, have invented an Improvement in Reclining Attachments for Chairs, of which the following description, in connection with the accompanying drawing, is a specification, like numerals on the drawing representing

10 like parts.

This invention has for its object to provide a novel attachment for chairs which is adapted to support the chair firmly in a tilted or reclining position. The device is 15 arranged so that it can be attached to a chair without disfiguring it, and when a person is sitting in the chair having my improved attachment applied thereto, such person may tilt back in the chair and be firmly supported 20 in a tilted position without the necessity of resting the chair against a wall or without the necessity of the person placing his feet on a desk, table or other support.

I will first describe some embodiments of 25 my invention and then point out the novel features thereof in the appended claim.

In the drawings, Figure 1 is a perspective view of a chair having my attachment applied thereto; Fig. 2 is a side view of the 30 chair showing the position of the attachment when it is not in use; Fig. 3 is an enlarged side view of the hinge or bracket for securing the attachment to the chair; Fig. 4 is an enlarged section on the line x-x, Fig. 3; Fig. 5 35 is a vertical sectional view through the shoe at the bottom end of the rest or support; Fig. 6 is a section on the line a-a, Fig. 5; Fig. 7 is a side view of a modified form of bracket for pivotally attaching the device to 40 a chair; Fig. 8 is a section on the line b-b, Fig. 7.

According to my invention, the chair is held in its reclining position by a brace or support 3 which is adapted to be pivotally 45 attached to the back of any chair having rear uprights. In the present embodiment this brace is substantially V-shape, as shown, and may be made of a piece of wire bent to the proper shape. The upper ends of the two 50 arms of the brace or support are hinged to

the chair by means of brackets 4.

In the form of the invention shown in Figs. 1 to 6, each bracket 4 has the body portion 5 which rests against the back face of the chair

and is secured thereto by suitable screws 6, 55 which body portion is formed with the integral boss 7 having a horizontally-extending aperture 8 therein. The upper ends 9 of each of the arms of the brace are bent outwardly to form trunnions which extend 60 through and are journaled in the apertures 8. Preferably the ends of the trunnions will be headed over slightly, as shown at 10, to prevent the trunnions from being withdrawn from the brackets when the device is in use. 65 Extending from each bracket is a stop arm 11. Each stop arm is situated below the boss 7 and extends rearwardly from the body portion, and the end 12 of each stop arm is bent inwardly, as best seen in Fig. 4, said 70 inwardly-bent portion 12 being situated to have engagement with the arm of the brace to limit the swinging movement thereof. The lower end of the brace or support has applied thereto a shoe 13 of rubber or other 75 suitable material adapted to have good frictional engagement with the floor. This shoe is made with the slot or recess 14 in its upper end which is adapted to receive the apex 15 of the brace or support 3, and in order to 80 hold the shoe in place, I preferably provide it with one or more projections 16 which extend inwardly from the walls of the slot and which are situated in the apex of the brace 3 when the shoe is applied to the brace. This 85 construction makes one in which the shoe can be readily put in place and will be securely held in place after it has been applied. The bottom 17 of the shoe is preferably corrugated, as shown, and made on a slight in- 90 clination so that it will rest squarely against the floor when the brace is in use. I prefer to make the face 18 of the body 5

that rests against the chair slightly hollow-

ets can be attached to any chair having rear

uprights, whether the uprights are square or

round in cross section. I also prefer to

make the apertures 8 in the bosses larger at

outer ends of the apertures being of a size to

fit the trunnions. This construction per-

mits of the brackets to be placed in slightly

different angular positions on the chair with-

swinging movement of the support. This is

backs of the chairs are warped or twisted

their inner ends than at their outer ends, the 100

ing, as best seen in Fig. 4, so that the brack- 95

out interfering in any way with the free 105 quite important because sometimes the

slightly, and sometimes the faces of the uprights do not stand exactly in the same

plane.

In Figs. 7 and 8 I have illustrated a modi-5 fied form of the invention in which the bracket is so arranged that it can be applied to the chair at slightly different angles whereby the position of the stop arm 11 may be changed or adjusted so that the brace or 10 support can be swung away from the chair more or less as desired. In this embodiment of my invention the bracket is provided with the side piece 20 which is adapted to overlie the side of the upright of the chair, 15 as plainly seen in Figs. 7 and 8, said bracket also being provided with the rest 21 which engages the back face of the chair leg. The bracket is further provided with the apertured boss 7 having an aperture 8 of varying 20 diameter, as above described, and with the stop arm 11 beneath the boss and extending rearwardly and with its end 12 curved inwardly, all as shown in the modification shown in Figs. 1 to 6. In this embodiment 25 of the invention the bracket is held in place on the chair by two screws 22, 25, one of which passes through an aperture 23, and the other of which extends through a slot 24. By loosening the screw 25 the bracket can be 30 turned slightly about the screw 22, thereby raising or lowering the stop arm slightly, and in this way the elevation of said stop arm may be adjusted as desired.

I will also preferably provide the brace with the cross piece 26 near its lower end to which a chain or other flexible connection 27 may be secured which chain or flexible connection may also be secured to the seat of the chair, as at 28. This chain constitutes an added means for limiting the extent of backward movement of the brace. In the drawings I have shown this cross piece 26 as in the form of a link which surrounds the lower end of the brace and which may be slipped

45 on over the brace before the shoe is applied.

This link is prevented from sliding up the brace by the V shape of the latter.

In applying my improved attachment to a chair said attachment is placed with the shoe 13 resting on the floor in substantial 50 alinement with the rear legs, as shown in Fig. 2, and the brackets are then attached to the rear uprights of the chair above the seat. When a person desires to tilt back in his chair, said person first sits in the chair, then 55 reaches behind the chair and swings the brace backwardly to the limit of its movement and then tilts back in the chair until the shoe strikes the floor. Since the brace is attached to the chair uprights above the 60 seat of the chair, as shown, a very secure and firm support is afforded for the chair. It is important that the brace should be pivotally connected to the chair above the seat portion

I have not attempted to describe herein all embodiments of my invention, but have selected two preferred embodiments only for the purpose of illustrating the same.

for the reasons stated above.

Having fully described my invention, what 70 I claim as new and desire to secure by Let-

ters Patent is:—

In a reclining attachment for chairs, the combination with a support or rest presenting two connected arms having a divergent 75 arrangement each bent at its upper end to form a trunnion, of two brackets for pivotally connecting the support to the back of a chair, a link loosely surrounding the support near its apex, a shoe on said support below 80 the link, and a chain or flexible connection connected to the link and adapted to be secured to the seat of the chair.

In testimony whereof I have signed my name to this specification in the presence of 85

two subscribing witnesses.

FRANK E. BARNICKLE.

Witnesses:

THOMAS J. DRUMMOND, Louis C. Smith.