

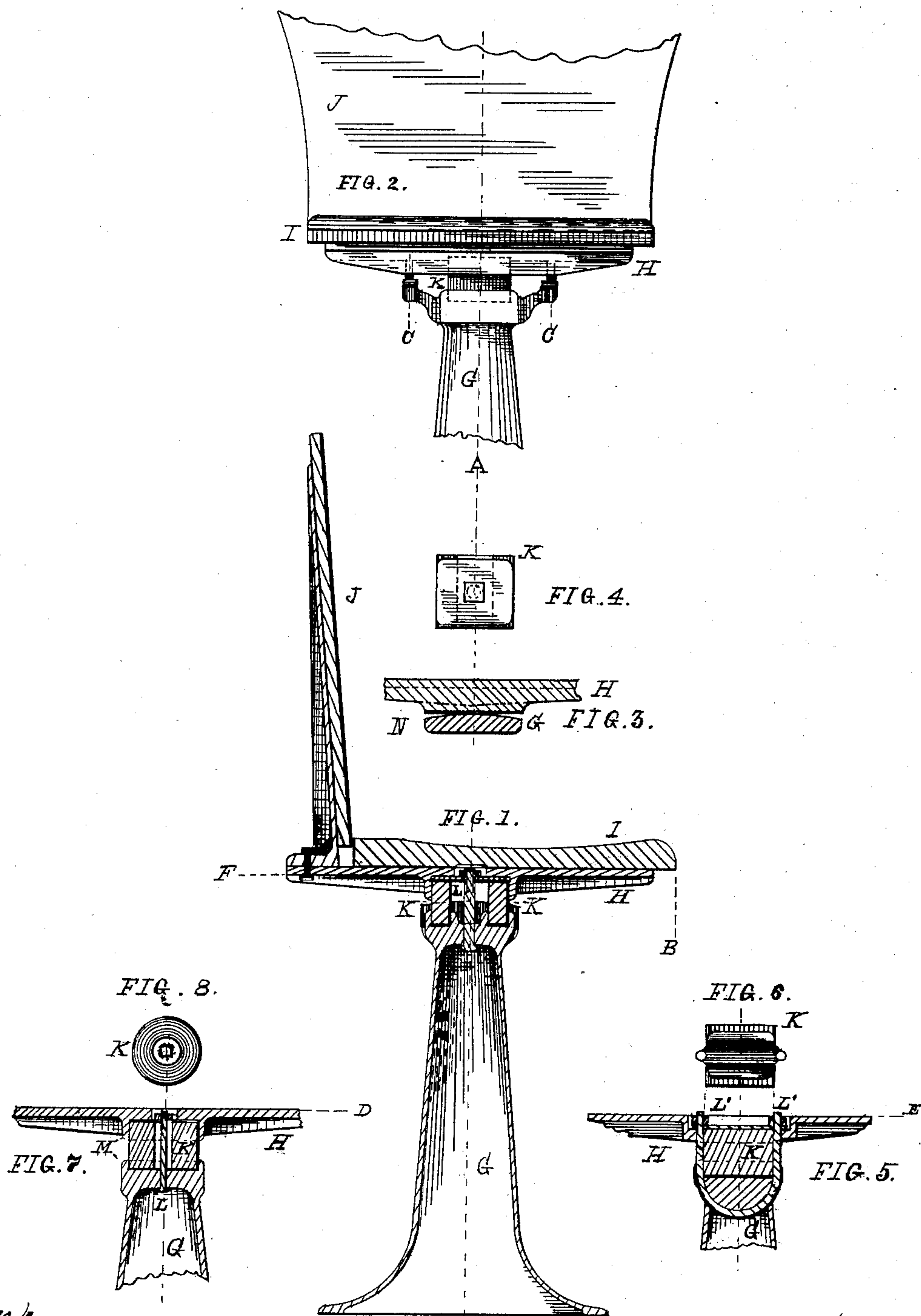
(No Model.)

W. I. WILBUR.

CHAIR.

No. 367,485.

Patented Aug. 2, 1887.



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UNITED STATES PATENT OFFICE.

WILLIAM I. WILBUR, OF TOLEDO, OHIO.

CHAIR.

SPECIFICATION forming part of Letters Patent No. 367,485, dated August 2, 1887.

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To all whom it may concern:

Be it known that I, WILLIAM I. WILBUR, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Improvement in Chairs, of which the following is a specification.

My invention relates to an improvement in chairs which are ordinarily used in schools, the object being to provide a chair with a slightly-elastic forward and back rocking adjustment, for the purpose of rendering the sitting posture of the occupant more varied, and consequently less wearisome and more restful, and while accomplishing these objects I have in no small degree simplified and consequently reduced the expense of construction. I attain these objects by the mechanism illustrated in the accompanying drawings.

Figure 1 is a vertical section on line A, Fig. 2. Fig. 2 is a vertical front view or elevation on line B, Fig. 1, of a chair embodying my invention. Fig. 3 is a view of a detached portion of the seat-holder H, which rests upon the rocker-arms, which rocker-arms form a portion of the supporting-column. This view is taken on line C, Fig. 2. Fig. 4 is a top view on line F, Fig. 1, of the springs, top washer, and nut, as used in the form of construction illustrated in Figs. 1 and 2. Fig. 5 represents a detached portion of the seat-holder H and a detached portion of the supporting-column, the said parts being constructed slightly different (but embodying the same principles) from the corresponding parts shown in Fig. 1, said parts (in Fig. 5) being adapted to receive a different form of spring and to fasten in position with a bended bolt. Fig. 6 is a top view, on line E, Fig. 5, of the spring and bolt used in the form of construction illustrated in Fig. 5. Fig. 7 represents a detached portion of the seat-holder H and a detached portion of the supporting-column. These parts in this view are also slightly different from those illustrated in Figs. 1 and 5, (but embody the same principle,) and are adapted to receive a round or cylindrical form of spring, which is fastened with a bolt. Fig. 8 is a top view, on line D, Fig. 7, of the spring-nut and washer used in the form of construction shown in Fig. 7.

Referring to the drawings, G represents the supporting-column, and H the seat-holder. Upon this support H is mounted the seat I, and in this particular design the back J, though it is obvious that this back might be attached in other ways to the column G and the seat also varied in design to suit the fancy of the builder.

K represents the spring used between the supporting-column G and the seat-holder H.

L in Figs. 1 and 7 represents a binding-bolt for holding the supporting-column, seat-holder, and spring or springs K together. In Fig. 5 a bended bolt, L', is used for the same purpose, and consists of a bended bolt having a nut at each end.

On either side of the column G, at C C, Fig. 2, are radiating rocker-arms, a side view of which (showing one of the rockers) is shown in Fig. 3.

In Fig. 1 there are shown two springs, K, with the bolt L passing between them. I do not, however, confine my invention to the use of two springs, for the reason that a single square spring, as shown in Figs. 5 and 6, or a single cylindrical spring, as shown in Figs. 7 and 8, may be used. The first fastened with a bended bolt, L', and the latter with a bolt, L, are obvious modifications of the same invention. Likewise, any suitable elastic material may be utilized for a spring or springs; but in the illustrations given rubber is supposed to be employed. It is not intended that the springs shall bear any part of the weight of the seat-support or its burden. They are only intended to offer resistance to the rocking tendency of the said seat-holder.

The springs K are retained in position by suitable supports, M, in both the column G and seat-holder H.

Having described the construction of my invention, its operation is as follows: Referring again to Fig. 1, it is obvious that when the seat I is occupied by a person in the ordinary manner, a forward or backward movement of the body would compress the spring or springs K and allow the seat-holder H to rock upon the rocker G', and when, again, the body resumes an upright or perpendicular attitude, the seat will again resume its normal position, as shown in the several figures. A

very elastic and comfortable chair is thus secured, and by its simplicity and cheapness of construction it is brought very nearly within the cost of the cheap and common seats in general use.

5 Having described my invention, I do not claim, broadly, an elastic or rocking seat in the "make-up" of a chair; but what I claim as new, and desire to secure by Letters Patent, 10 is—

1. A chair embodying the following elements: a column, G, having at its upper extremity the upwardly-opening spring-support M, carrying one or more springs, K, whose 15 upper extremities have an upward action, and whose lower extremities remain at rest vertically, a connecting-bolt vertically immovably attached to the column G, the radiating T-headed cross arms C C, in combination with 20 a superimposed seat, I, and its holder H,

adapted to have a rocking movement upon the part C and held in adjustable position by the aforesaid bolt, substantially as shown, and for the purpose specified.

2. A chair embodying the following elements: an integral support, G, embodying the radiating T cross-arms C C, the upwardly-opening spring-support M, carrying one or more upwardly-acting springs, K, in combination with a seat-holder, H, adapted to carry 30 seat I, which seat-holder H has a rocking movement upon arms C C, to which the holder H is adjustably secured by means of a vertically-immovable bolt, substantially as shown and described.

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