(No Model.)

W. SENG.

LOUNGE HINGE.

No. 436,546. Patented Sept. 16, 1890.

Fig. 1.

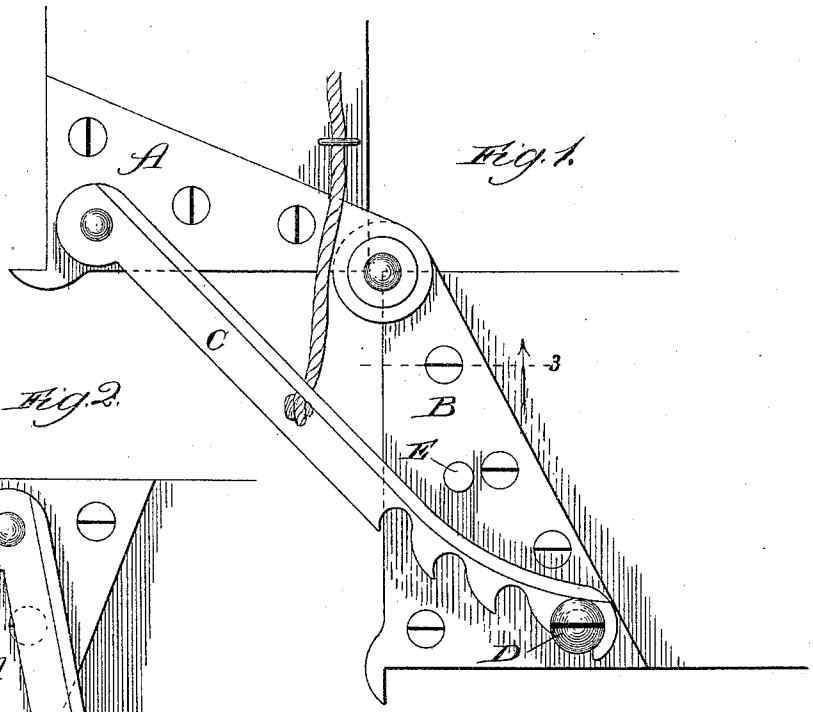


Fig. 2.

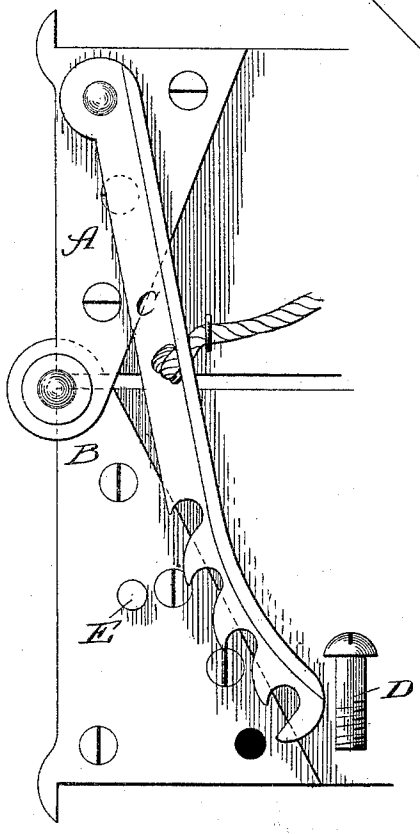
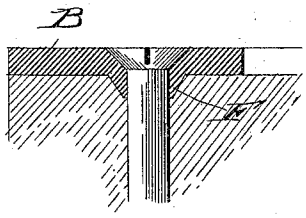


Fig. 3.



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UNITED STATES PATENT OFFICE.

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LOUNGE-HINGE.

SPECIFICATION forming part of Letters Patent No. 436,546, dated September 16, 1890.

Application filed April 29, 1890. Serial No. 349,983. (No model.)

To all whom it may concern:

Be it known that I, WENDELIN SENG, a citizen of the United States, residing at Chicago, Illinois, have invented a certain new and useful Improvement in Lounge-Hinges, of which the following is a specification.

The object of my invention is to make a hinge for connecting the two parts of a folding lounge together that will permit the part forming the back to be raised and lowered and held at any desired angle and locked from being raised beyond a predetermined point; and my invention consists in the features and details of construction hereinafter described and claimed.

In the drawings, Figure 1 is an end elevation of a lounge with the folding portion up, showing my improved hinge. Fig. 2 is the same, showing the folding portion of the lounge turned over for shipment; and Fig. 3 is a section through the line 3 of Fig. 1, showing one of the screw-holes in the hinge-leaf.

In making my improved lounge-hinge I make two leaves A and B, of suitable form, with ears overlapping or embracing each other and a rivet or pivot connecting them together to form a joint or turning-point. The form of the hinge-leaves and the manner of connecting them together may be varied to suit the convenience or taste of the manufacturer. The hinge-leaves are connected together by a bar C, pivoted at one end to one of the hinge-leaves and provided with a number of ratchet-teeth at the other. These ratchet-teeth are adapted to engage with a stud D on the other of the hinge-leaves and hold the folding part of the lounge at any desired position or angle to the stationary part of the lounge in its movement up or down. To afford a stop or lock, however, to the upward movement of the folding part of the lounge, so as to prevent its passing beyond an upright position, except for the purpose of shipment, as hereinafter described, a stop E is arranged on one of the hinge-leaves, and preferably on that one of them that contains the stud D, with which the ratchet-teeth engage. This stop is arranged above the ratcheted bar C, but with sufficient distance between them to permit the bar to rise enough to slip the ratchet-teeth over the stud D in adjusting the folding portion of the lounge. As the ratchet-teeth of the bar severally pass over the stud D in raising the folding portion of the lounge, the angle between the bar and the stop E constantly changes, and finally a notch will be reached where the stop E is so little above the bar that in raising the folding portion of the lounge still further the bar strikes against the stop before the notch has been disengaged from the stud D and prevents the folding portion of the lounge from being raised beyond the predetermined point, which, as shown in the drawings, is reached when the last notch engages with the stud D. The end of the bar beyond the last notch may also be somewhat hooked, as shown, if desired, so that the notch will only disengage when the bar is lifted higher than usual, although this precaution is not necessary, and the stop E alone is sufficient to prevent disengagement after a certain point is reached.

In folding the lounge for shipment the stud D may be removed and the folding portion of the lounge turned entirely over, as shown in Fig. 2, in which case the bar can be turned or swung over, so as to be above the stop E.

I also prefer to provide the screw-holes of the hinge-leaves with an inwardly-projecting flange F, as shown in Fig. 3, so that when they are in position there can be no lateral displacement, thus relieving all lateral strain on the screws. I prefer, also, to attach a rope, chain, or cord from the bar up in easy reach of the occupant of the lounge, so that he can change the position of the folding portion of the lounge, as desired.

My improved hinge can be applied to folding chairs and other articles of furniture where there is a stationary part and a folding part which it is desirable to lock when it reaches a given point of openness, and while I have shown and described it in connection with a folding lounge, I do not mean to limit myself to a lounge to the exclusion of other articles of furniture.

What I regard as new, and desire to secure by Letters Patent, is—

In a hinge, the combination of a leaf adapted to be attached to the stationary part of an article of furniture, a leaf adapted to be attached to the folding part of an article of fur-

niture, a bar pivoted on one of the leaves and provided with ratchet-teeth severally engaging a stud on the other of the hinge-leaves as the hinge-leaves are opened, and a stop on one of the leaves preventing a predetermined notch from disengaging from the stud by further opening of the leaves when they are opened the predetermined distance, substantially as described.

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