

No. 755,089.

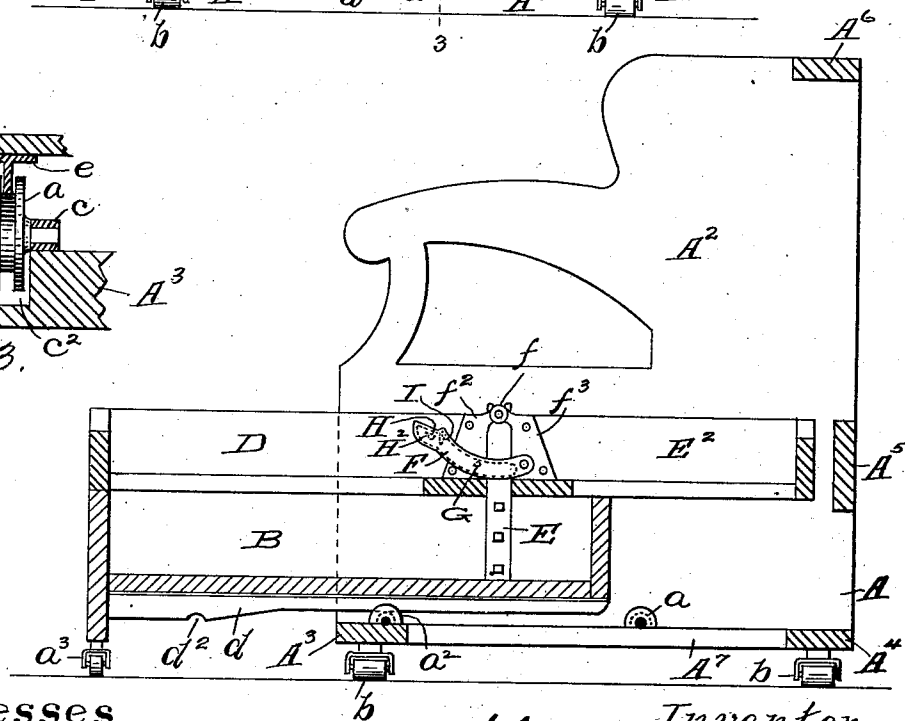
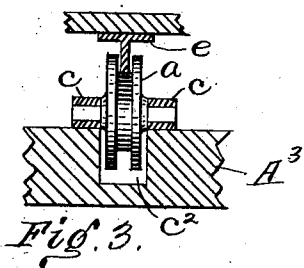
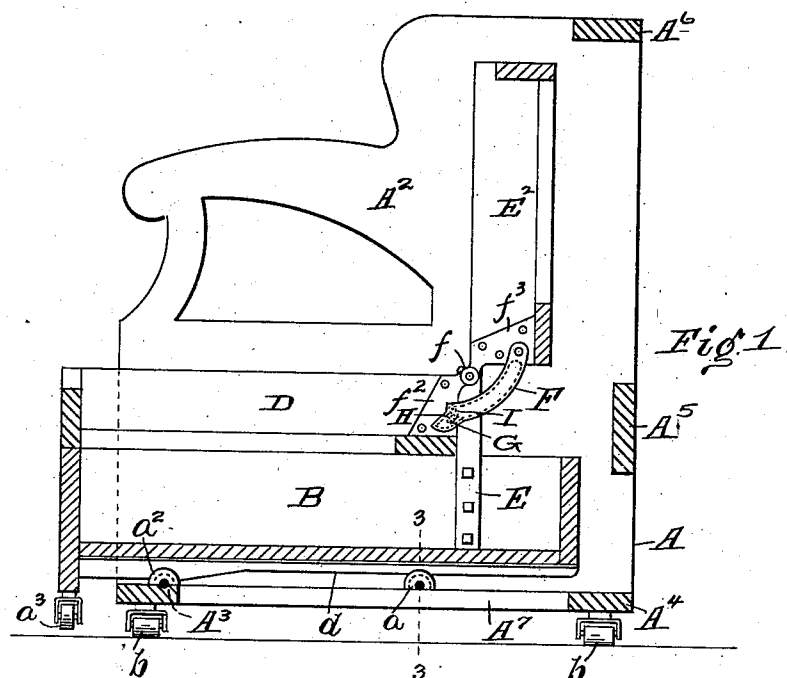
PATENTED MAR. 22, 1904.

F. B. WERSEL, JR.
SOFA BED.

APPLICATION FILED DEC. 3, 1902.

NO MODEL.

3 SHEETS—SHEET 1.



Witnesses

Henry D. Bauer
John W. Thompson.

Fig. 2.

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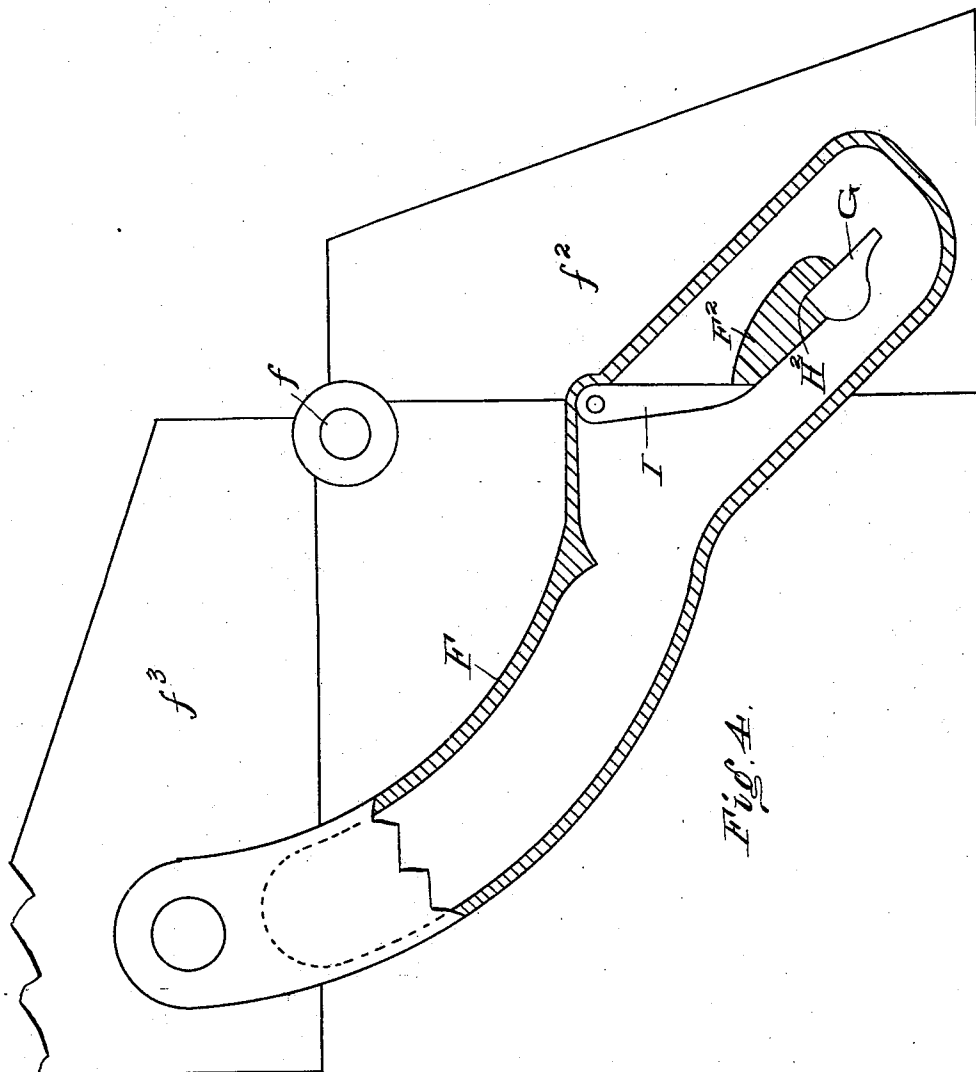
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NO MODEL.

3 SHEETS—SHEET 2.



Witnesses

Clarence W. Luhn
William Bassett

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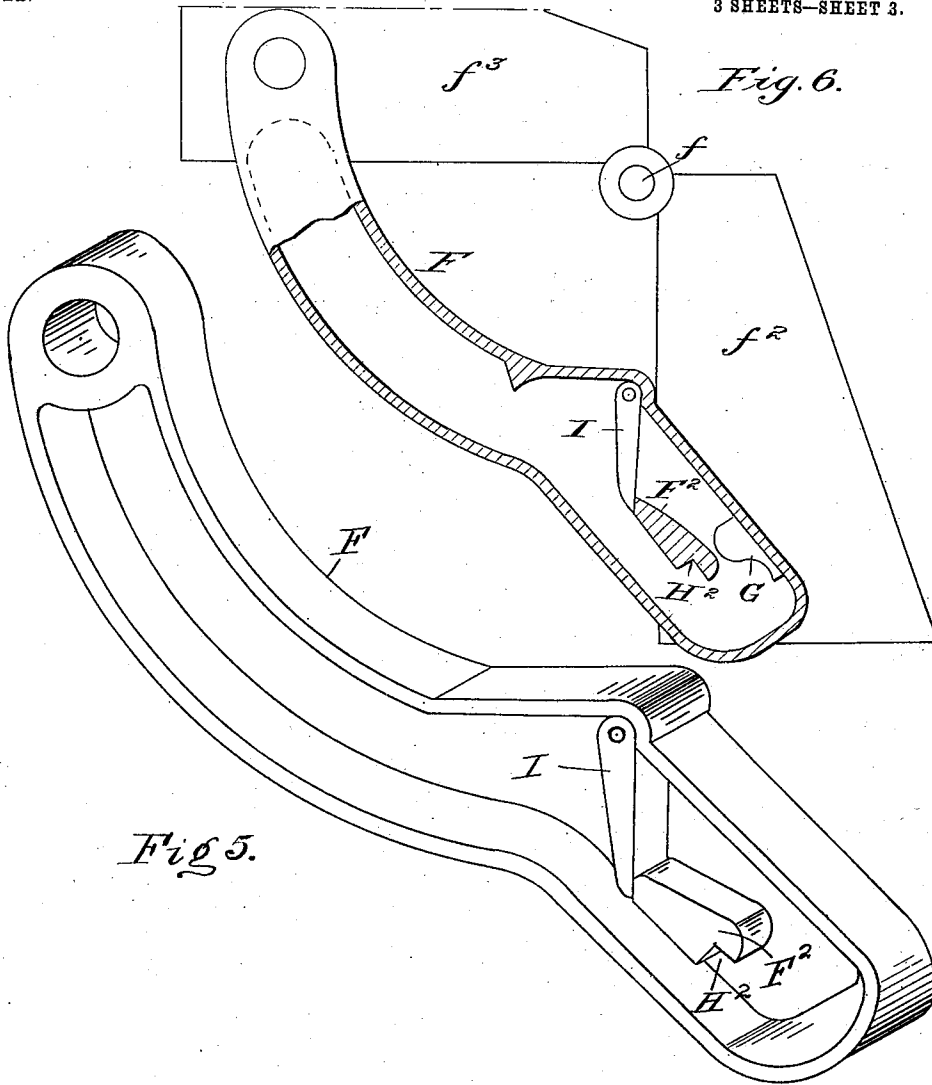
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3 SHEETS—SHEET 3.



Witnesses

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UNITED STATES PATENT OFFICE.

FRANK B. WERSEL, JR., OF MOUNT LOOKOUT, OHIO.

SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 755,089, dated March 22, 1904.

Application filed December 3, 1902. Serial No. 133,789. (No model.)

To all whom it may concern:

Be it known that I, FRANK BERNARD WERSEL, Jr., a citizen of the United States of America, and a resident of Linwood road, near Hershel avenue, Mount Lookout, in the county of Hamilton and State of Ohio, (post-office address Nos. 318 to 320 West Pearl street, in the city of Cincinnati, county of Hamilton, and State of Ohio,) have invented an Improvement in Sofa-Beds; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to combination sofas and beds; and it has for its object the improvement in the construction of such devices whereby they are simplified and rendered more efficient in action.

The novelty of my invention consists in the combination and subcombination of the parts, as will be hereinafter set forth, and specifically pointed out in the claims.

Figure 1 is a transverse vertical section through the device when in its sofa form. Fig. 2 is a cross-section with the parts in the position assumed by them to form the bed. Fig. 3 is an enlarged broken section on line 3 3 of Fig. 1. Fig. 4 is an enlarged view of link, partially in section. Fig. 5 is a perspective view of the link. Fig. 6 is a view showing lug G passing over the lug F².

A represents a stationary base-frame having similar end standards A², (one only of which is shown,) affording arms for the sofa, said end frames being preferably joined together simply by the bottom longitudinal members A³ A⁴, a lower back longitudinal member A⁵, and a top back longitudinal member A⁶. Cross-pieces A⁷ connect the ends of the members A³ A⁴ and are secured to the inner surface of the end standards at the lower margins.

B represents a movable seat-frame support, preferably of the box form shown to adapt it to receive bedding and mounted to move with relation to the base-frame on rollers a a² and casters a³. The base-frame is itself preferably mounted on casters b to enable the whole

furniture-piece to be moved about the floor at will. The casters a³ do not rest on the floor when the device is in the sofa form, but the casters a³ rest on the floor when the device is in the bed form. Four grooved rollers a a² are provided, two near each forward corner and two in the middle of the base-frame, said grooved roller being journaled in a stationary bearing c, secured to the member A³. A recess c² in the member A³ serves to partially house the roller. For each of the four grooved rollers thus described two transversely-extending metallic T-form tracks L are provided on the lower side of the base of the support B. The forward ends of the T-form tracks have inclines, making that part of the T-form track wider than the rear portion. In this wider portion of the T-form track are round recesses d². To the ends of the supporting-box B, a short distance in front of the rear corners of said box, uprights E are fixed. To the upper ends of these uprights are pivoted at points f the seat-frame D and back frame E, two rigid hinges f² f³ being applied to said frames for the purpose. Links F serve automatically to lock the seat and back frames together when the frames are at a given angle to each other, and the link F automatically unlocks said parts when a more acute angle is reached. Lugs G, rigidly secured to the hinge f², engage and disengage with the lugs F² on the inner side of links F. The pawls I operate by gravity. The pawls I prevent the lugs G from passing on the upper side of the lugs F² when the back frame is first raised from the horizontal to a vertical position. The lugs G catch in the recesses H² when the back frame E is raised to a vertical position; but if the back frame E is still further turned on the pivot f it causes the lugs G to pass beyond the lugs F², permitting the links F to fall slightly, thereby permitting the lugs G to pass above the lugs F² and sliding to the upper end of the link F, permitting the back frame E to be lowered to a horizontal position. When the movable seat-frame B is pushed back, so as to form a sofa, the incline passes over the pulley A², thereby raising the outer side of the seat-frame from the floor,

and when the seat-frame B is pushed fully back the round recesses a^2 catch on the pulleys a^2 , holding it in position.

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

1. In a sofa-bed, the combination of base-box, seat and back portions, standards rising from said box, whereon said seat and back portions are independently pivoted, stationary lugs carried by one of said pivoted portions, engaging links carried by the other pivoted portions, said links automatically engaging and disengaging by gravity said lugs and locking said pivoted portions together when said pivoted portions assume a position substantially at right angles to each other they lock said pivoted members against independ-

ent pivotal movement and permit said pivoted portions to move together on a common pivot, substantially as described.

2. In a sofa-bed, a stationary base-frame provided with rollers journaled in bearings on the top of said base-frame, a seat-frame, transverse tracks attached to the lower side of a movable seat-frame, the front end of said tracks provided with inclines to raise the seat-frame from the floor, half-round notches in the high portion of the transverse tracks to engage with the rollers attached to the base-frame, substantially as described.

FRANK B. WERSEL, Jr.

Witnesses:

L. M. MORGAN,
J. C. LEMON.