

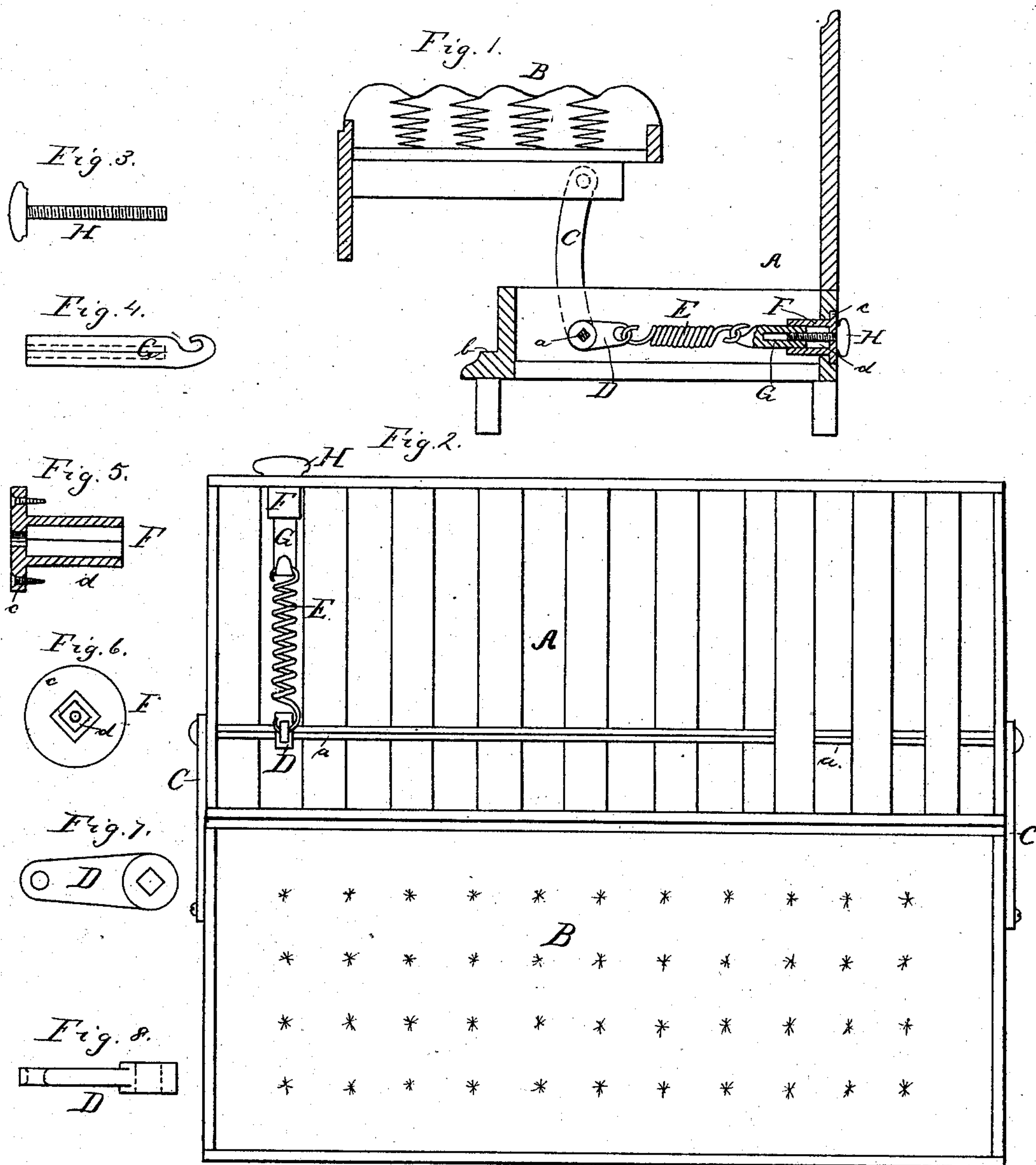
(No Model.)

F. FISCHBECK.

BED LOUNGE.

No. 257,856.

Patented May 16, 1882.



WITNESSES—  
G. W. Hasehaugen.  
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# UNITED STATES PATENT OFFICE.

FREDERICK FISCHBECK, OF CHICAGO, ILLINOIS.

## BED-LOUNGE.

SPECIFICATION forming part of Letters Patent No. 257,856, dated May 16, 1882.

Application filed March 17, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK FISCHBECK, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful  
5 Improvements in Bed-Lounges; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form  
10 a part of this specification.

This invention relates to improvements in that class of lounges described in Letters Patent No. 85,391, granted to William H. Lotz December 29, 1868, and reissued May 25, 1880,  
15 of which, by mesne assignments, I am now the sole proprietor; also, in Letters Patent No. 169,978, granted to me November 16, 1875; and it consists in the application of a single spiral spring to such a lounge, that by its tension will counteract the weight of the upper  
20 shell, and thus assist in lifting such shell for either opening or closing the lounge, and also in a device for adjusting or regulating the tension of such spring to accommodate it to the  
25 difference in weight of the various styles of such lounges, to counterbalance the upper shell of such lounge to any desired extent, or to compensate for any relaxation of the spring by the frequent opening and closing of the same.

30 In the accompanying drawings, Figure 1 represents a sectional end view of the lounge, with the shell in a half-way position for either closing or extending the lounge; Fig. 2, a plan of the lounge when extended; and Figs. 3, 4,  
35 5, 6, 7, and 8, details of the adjustable spring attachment.

Like letters designate corresponding parts in all the figures.

40 A denotes the lounge-body; B, the shell, which is connected to the body A by links or arms C—one at each end—each of said arms being connected at one end rigidly to the shaft or rod *a*, lying at or near the bottom and running lengthwise of the lounge-body. This  
45 shaft *a* is generally made of square bar-iron, and the arms C are provided with trunnions, that are pivoted in metal boxes secured to the ends of the lounge-body, and have square sockets for inserting the ends of shaft *a*. The arms  
50 C are of such lengths and the pivots so located that when the shell is on the body of the lounge

they allow it to rest snugly in place, with its rear edge close against the back of the lounge and its lower edges resting upon the ledge *b*, and when swung down in front of the body, 55 to hold the shell firmly up against the sofa, with its rear edge resting upon the ledge *b*. Near the front end of the lounge I sleeve upon the shaft *a* an arm, D, having a square hole in its hub, that fits snugly upon such shaft, and 60 an eye in its outward end for coupling the end hook of a spiral spring, E.

A piece, F, of which Fig. 5 represents a longitudinal section and Fig. 6 an end view, consists of a circular flange, *c*, that has a square 65 socket, *d*, for receiving and guiding the hook G, and has a central hole for admitting the shank of a thumb-screw, H. The square-socketed portion of this piece F is passed through a corresponding hole in the back board of the 70 lounge-frame, and its flange *c* is let into a suitable recess in such board, so as to be flush with the exterior surface thereof, and is secured thereto by wood-screws. The hook G has a square shank that enters the socket *d*, and is 75 longitudinally bored and tapped to engage with the screw-threaded shank of thumb-screw H, which enters the hole in flange *c* of piece F.

The spring E has a hook or loop formed to each end, one end to be coupled with the end 80 of arm D and its opposite end with the hook G. The arm D is secured upon shaft *a* at a position rectangular to the position of the arms C, and in a manner that when the shell B of the lounge is swung half-way, so as to balance 85 upon such arms, the spring E is not expanded to any extent; but when the shell B is lowered in either direction for closing or opening the lounge the spring E is expanded in proportion as the weight to be balanced increases by the 90 arms C acquiring a more horizontal position, thereby neutralizing such weight and making the operation of lifting such shell and of lowering it again a very easy one, that requires but very little power and will enable a child 95 to perform the extending or opening of the lounge. The adjustment for such springs by screw H, or by other suitable means for regulating their tension proportional to the weight to be counterbalanced, is of great importance, 100 since such springs are not made all the exact length, and are not of a uniform temper, be-



sides which lounges of the above class are made up in different styles, of all kinds of lumber, differing considerably in specific gravity, as well as of different qualities of upholstering material; also differing considerably in weight. Therefore without such provision for adjustment a manufacturer would require a large assortment of springs, as to length and temper, to apply to the several weights to be counteracted and to the exact length required, besides the necessity for a new spring whenever the spring attached should lose a portion of its elastic force.

When manufacturing lounges embodying the improvements described in Letters Patent No. 169,978, I can form the arm D solid with the foot-end arm C.

Devices for adjusting the elastic force of spiral springs are manifold, and therefore I do not wish to be restricted to the particular device herein specified.

What I claim is—

1. In bed-lounges of the class described, a single spring, E, coupled with an arm, D, on shaft *a*, and adjustably connected with the body A, substantially in the manner and for the purpose described. 25

2. In bed-lounges of the class described, the combination of shaft *a*, arm D, spring E, hook G, and adjusting-screw H, all constructed and arranged substantially as and for the purpose set forth. 30

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

FREDERICK FISCHBECK.

Witnesses:

F. W. KASEHAGEN,  
W. C. ADAMS.