

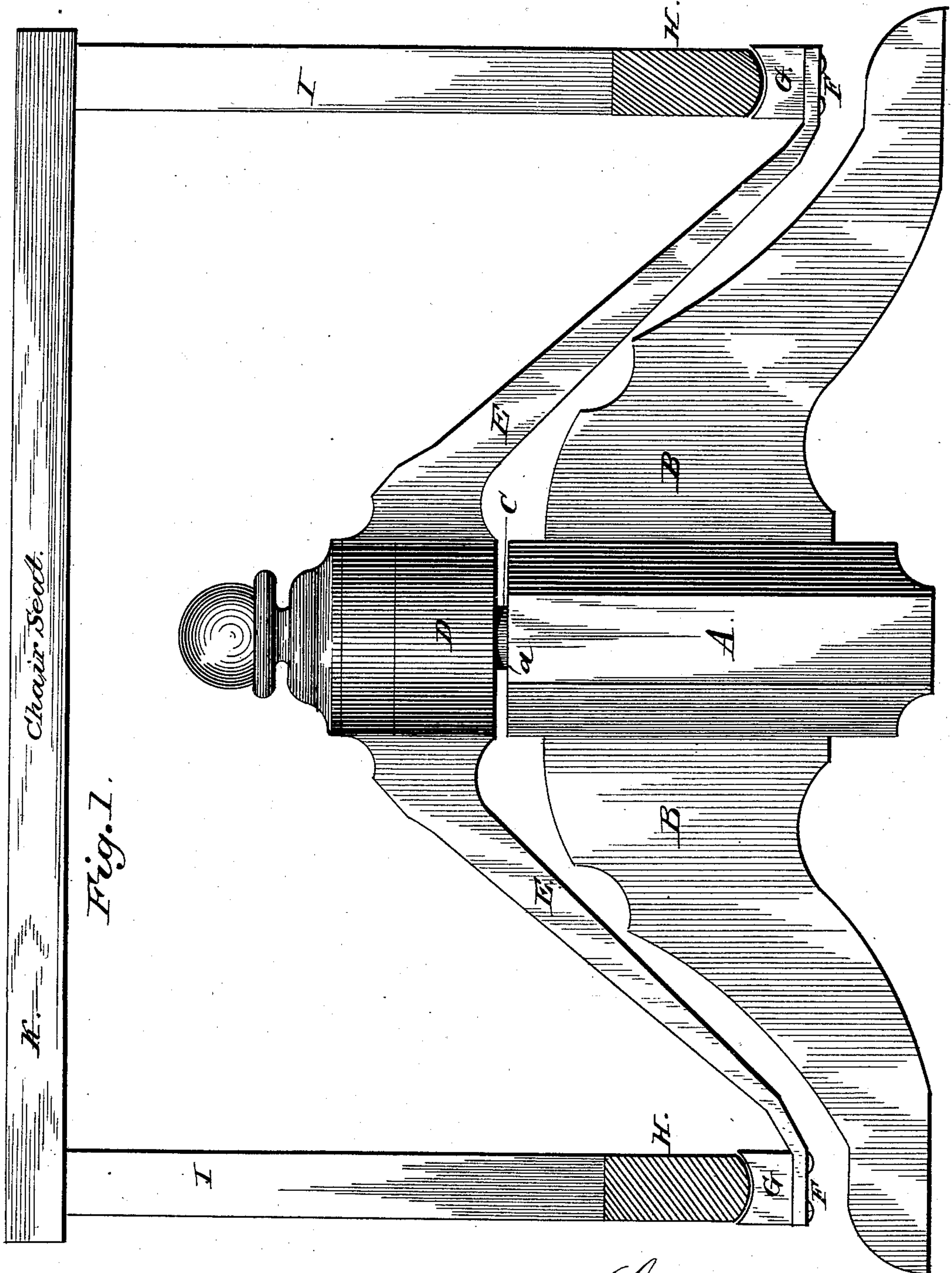
(No Model.)

2 Sheets—Sheet 1.

G. A. STILES.
ROCKING CHAIR.

No. 279,886.

Patented June 19, 1883.



WITNESSES:

Fred. L. Dieterich,
Arthur L. Morell.

INVENTOR.

George A. Stiles,
By Louis Ragger & Co.
ATTORNEYS.

(No Model.)

G. A. STILES.
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Fig. 2.

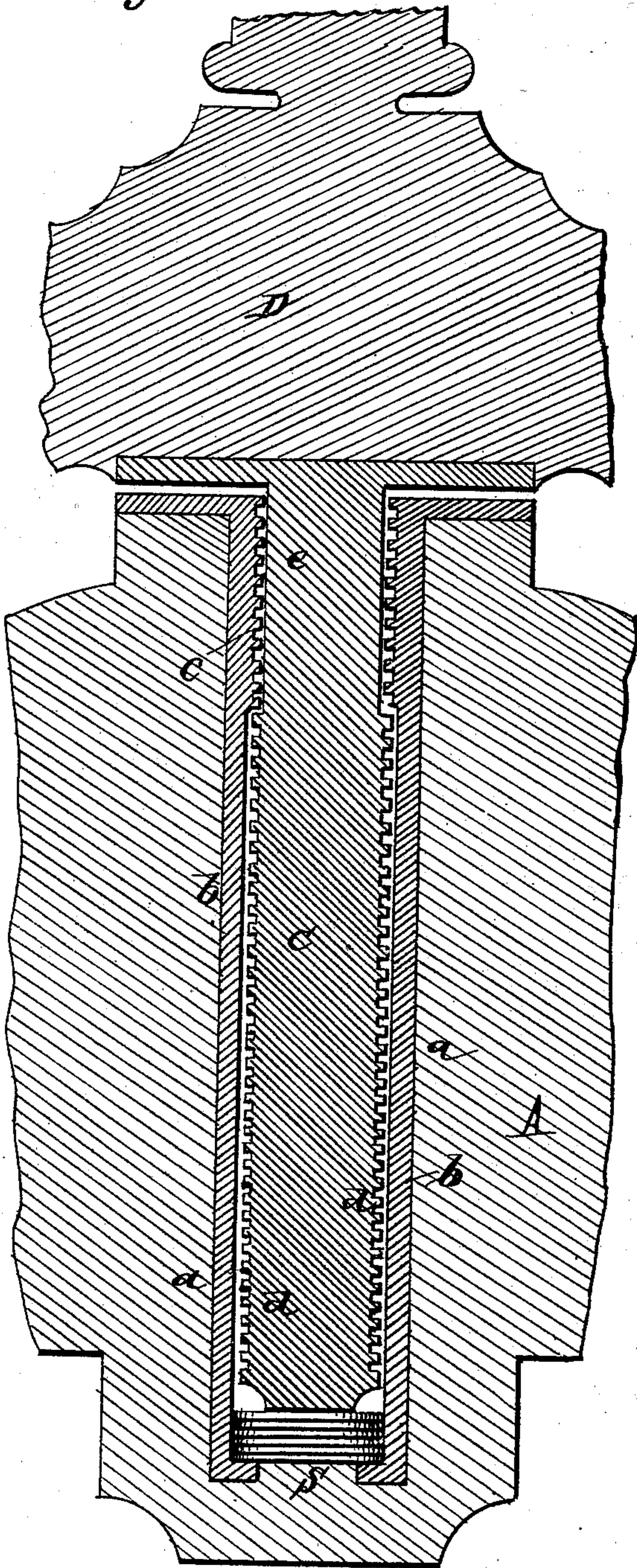


Fig. 3.

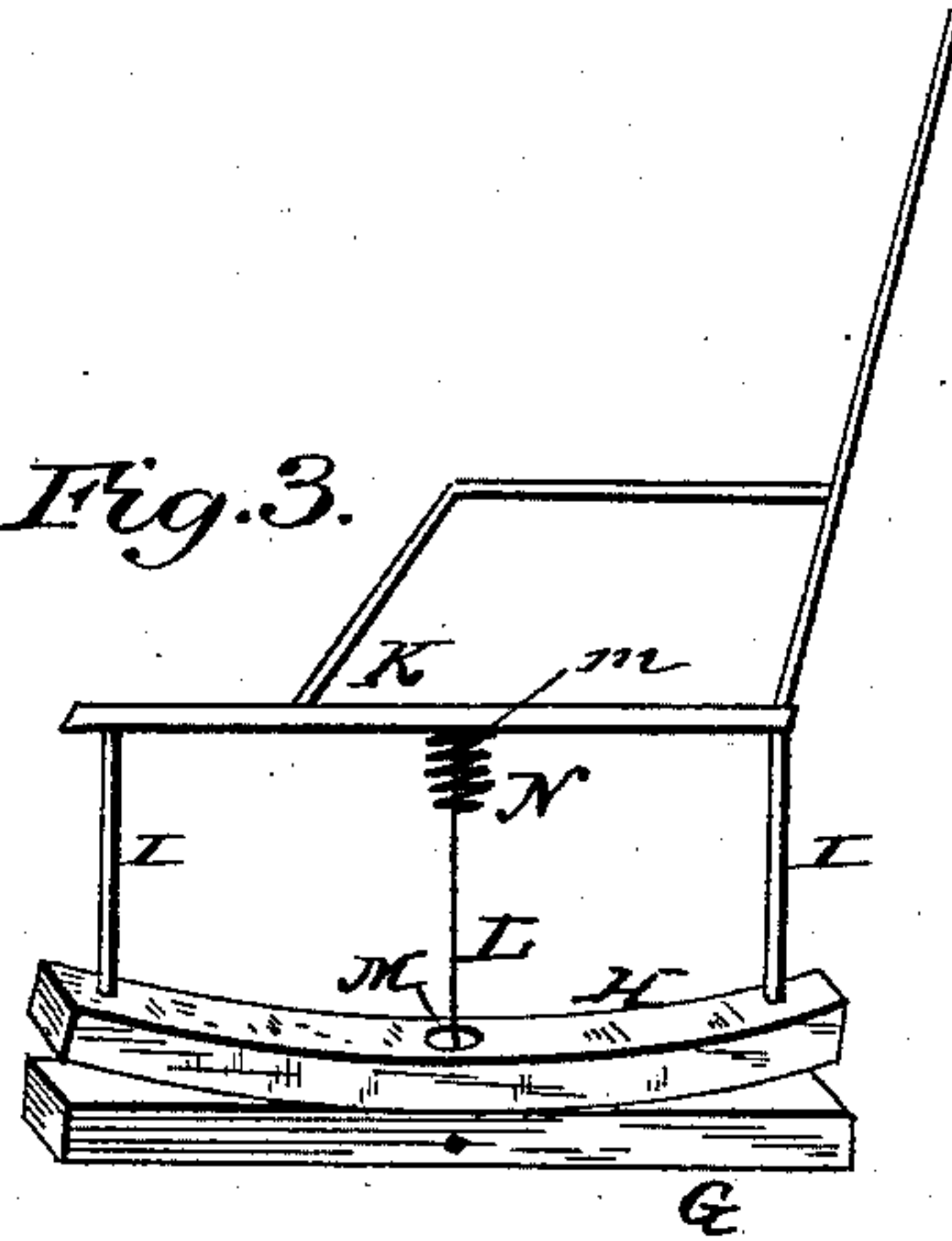


Fig. 4.

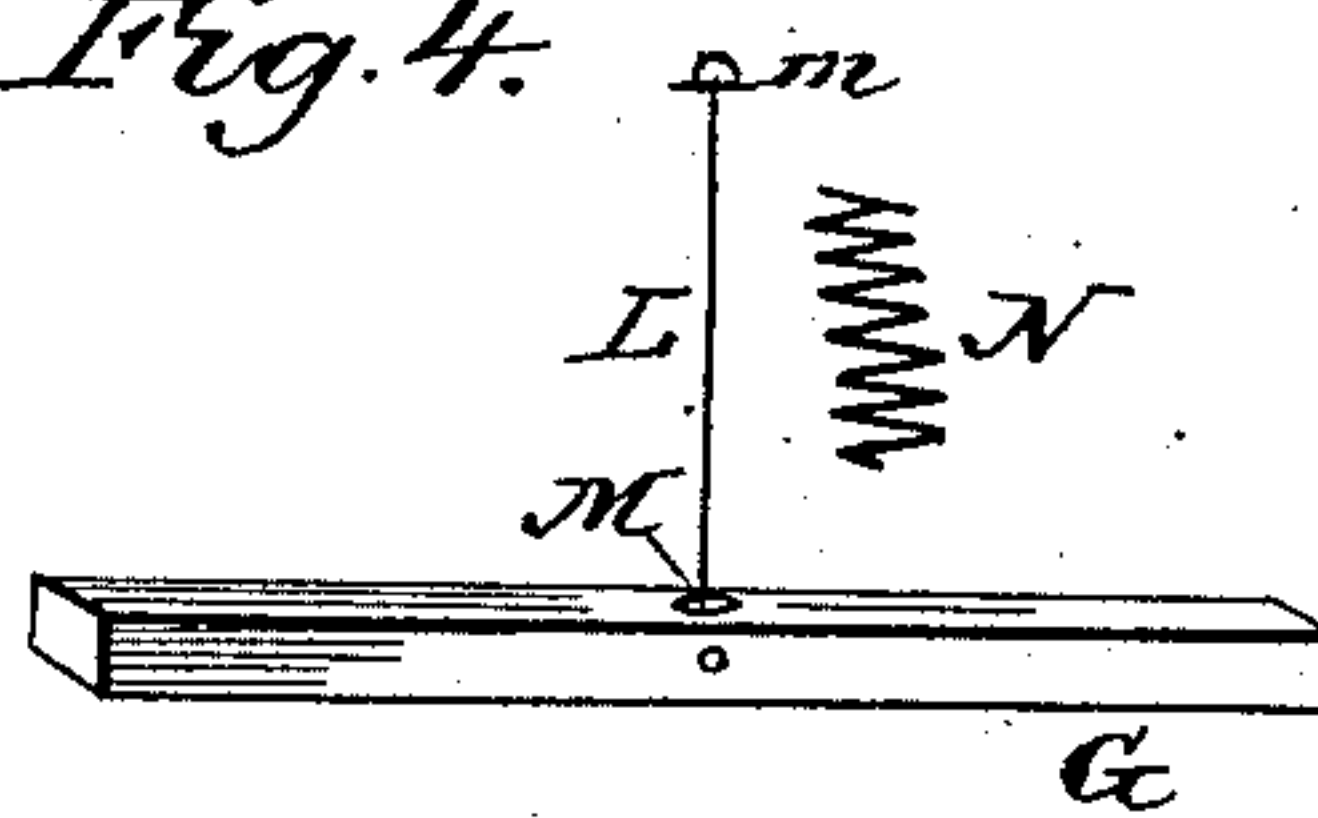
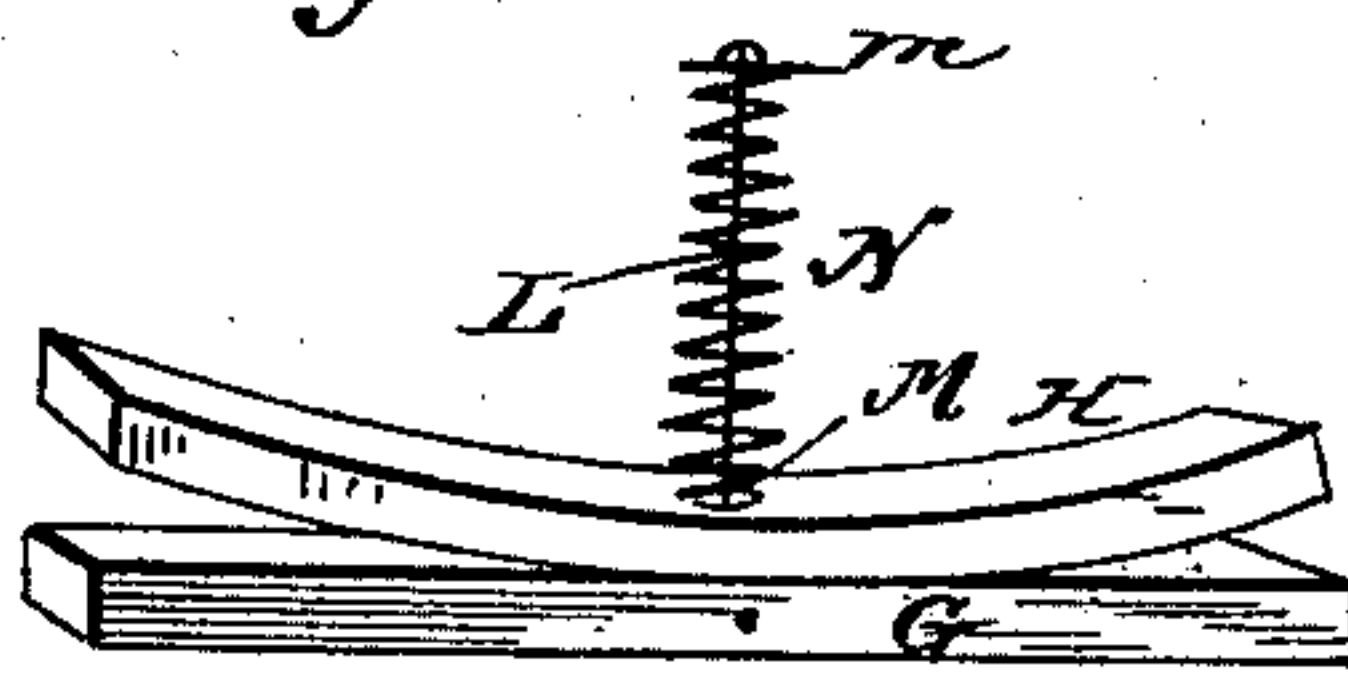


Fig. 5.



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UNITED STATES PATENT OFFICE.

GEORGE A. STILES, OF WEST GARDNER, MASSACHUSETTS.

ROCKING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 279,886, dated June 19, 1883.

Application filed April 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. STILES, of West Gardner, in the county of Worcester and State of Massachusetts, have invented certain
5 new and useful Improvements in Rocking-Chairs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to
10 make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view, partly in section, of the lower part of my improved rocking-chair.
15 Fig. 2 is a sectional detail view of the hub, with its socket and hub-screw. Fig. 3 is a side view, on a reduced scale, at right angles to the view shown in Fig. 1, with the hub and its supports removed; and Figs. 4 and 5 are detail
20 views, showing the spring mechanism for attaching the rockers to their bases.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of
25 rockers or rocking-chairs in which the chair rocks upon ways forming parts of the fixed base or support, thus preventing wear of the carpet; and it consists in the improved construction and combination of parts of a chair
30 of that class provided with a rotary seat, as hereinafter more fully described and claimed.

In the accompanying drawings, A denotes the fixed hub, which has three or more legs (shown at B) securely fastened in the hub by
35 mortising or otherwise. This hub has a central socket or recess, *a*, into which is inserted a collar, *b*, the upper part of which has a screw-thread, *c*, while its lower part is left plain, forming a smooth cylindrical barrel, in the bot-
40 tom of which is placed a strong coiled spring, S.

D is a rotary hub, which is provided with two or more arms, (shown at E,) preferably made of iron, and the lower ends of which are bent to form supports F for the ways G, the
45 upper faces of which may be grooved or concaved to adapt them to fit the convex swell of the rockers H. If desired, however, the ways G may have flat or plain surfaces. The rock-
50 ers are connected to their respective ways, on which they rock, by any suitably-constructed spring-fastening which will permit of the free motion of the rocker forward and back; and

while I do not confine myself to any particular mechanism for this purpose the device shown in Figs. 3, 4, and 5 of the drawings may
be used with advantage, on account of its sim- 55
plicity and cheapness. This device consists, simply, of a rod, L, which is fastened with its lower end in the ways of base-piece G and in-
serted through a slot or oblong aperture, M, 60
in the middle of the rocker. A coiled spring, N, is confined between a button, *m*, at the upper end of the rod and the rocker, bearing with its free end against the latter, as clearly shown
in Fig. 5; or, if desired, this arrangement may 65
be reversed, and the spring may be placed at the upper end of rod L, pulling from the under side of the seat, with its lower end passing through the rocker and fastened to base G, as
shown in Fig. 3. In either case it will be seen 70
that the slot M permits the rocker free motion forward and back upon its base-piece G, from which, however, it cannot slip or become de-
tached, on account of the rod L passing through the aperture M. The rockers are connected 75
by two or more standards, I, of any suitable pattern, with a chair-seat, (shown at K,) which has a back and side arms of any appropriate pattern or design. The rotary hub D is pro-
vided with a pivot, C, which is screw-threaded 80
at its lower end, *d*, to adapt it to engage the screw-thread *c* of socket *b*, while it is left plain at its upper part, as shown at *e* in Fig. 2. From this it will be seen that when the screw-
pivot C is in the position shown in the draw- 85
ings these threads *d* and *c* do not engage, so that the hub may be rotated without either raising or lowering the seat; but if the person occupying the chair leaves the seat, spring S
will force the pivot C upward, so as to cause 90
its threads *d* to engage the threads *c* of the socket *b*, so that if the seat is rotated it will be raised, while by turning it in the opposite
direction it will of course be lowered. Thus it will be seen that by this construction and 95
arrangement of the partially-threaded pivot C, partially-threaded collar *b*, and spring S, the chair may be used either as an ordinary rotary chair without effecting the elevation of its seat,
or the seat may be raised or lowered at will. 100

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the fixed hub A, hav-

ing the socket *b*, threaded at its upper part, rotary hub *D*, having the pivot *C*, threaded on its lower part, *d*, and spring *S*, substantially as and for the purpose shown and set forth.

5 2. The combination, in a rocking-chair, of the fixed hub *A*, having fixed legs *B*, and provided with the socket *b*, threaded at its upper portion, rotary hub *D*, having the partially-threaded pivot *C* and fixed side arms, *E*, bent
10 at their outer ends to form the horizontal supports or bearings *F*, fixed base-pieces or ways *G*, rockers *H*, the seat *K*, fastened to the said rockers, and a suitably-constructed spring mechanism for connecting the rockers to their
15 fixed bases, substantially as and for the purpose shown and specified.

3. The combination, in a rotary rocking-chair, of the fixed hub *A*, having fixed legs *B*,

and provided with the partially-threaded socket *b*, having spring *S* at its lower end, rotary 20 hub *D*, having the side arms, *E*, supporting fixed ways *G*, and provided with the partially-threaded pivot *C*, adapted to engage the threaded part *c* of socket *b*, rockers *H*, a suitably-constructed spring device or mechanism for 25 connecting the rockers to their appropriate bases, and the seat *K*, fastened to the rockers, substantially as and for the purpose shown and set forth.

In testimony that I claim the foregoing as 30 my own I have hereunto affixed my signature in presence of two witnesses.

GEORGE A. STILES.

Witnesses:

HENRY L. UPHAM,
THEOPHILUS P. PERLEY.