S. HOFFMAN.

Tilting-Chair.

No. 168,744.

Patented Oct. 11, 1875.

Fig. 1.

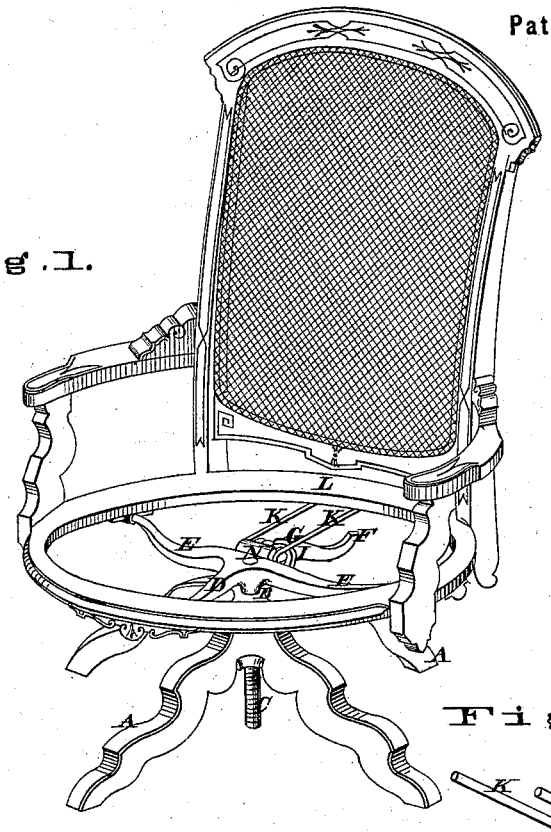


Fig. 3.

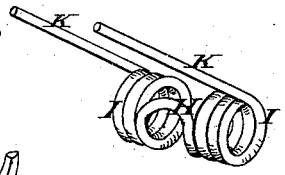
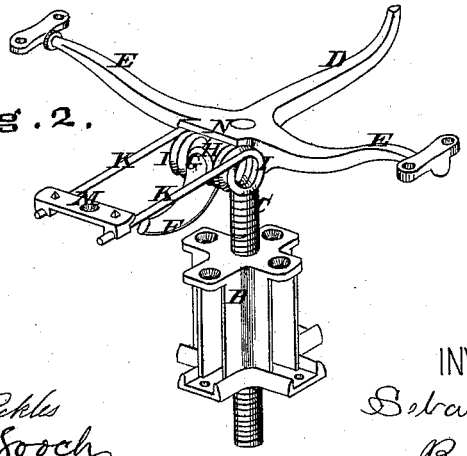


Fig. 2.



ATTEST.

Charles Pickles

Chas J Booch

INVENTOR.

Sebastian Hoffman

By Knight Bros.

Attys.

UNITED STATES PATENT OFFICE.

SEBASTIAN HOFFMAN, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN TILTING CHAIRS.

Specification forming part of Letters Patent No. **168,744**, dated October 11, 1875; application filed June 21, 1875.

To all whom it may concern:

Be it known that I, SEBASTIAN HOFFMAN, of St. Louis, St. Louis county, State of Missouri, have invented a certain new and useful Improvement in Tilting Chairs, of which the following is a specification:

This invention is an improvement on the tilting chair patented to me January 5, 1875, (No. 158,492.) My present improvement relates to the construction of the spring and its attachments. The spring consists of a single rod with two coils, whose ends extend back in arms which have bearing beneath the back of the seat-frame. Between the coils is a stirrup, which is over the back bar or arm of the spider, and which bears against a lug extending upward from the arm. The coils of the spring are in recesses somewhat similar to those of my former patented chair, but more particularly intended to prevent the upward movement of the coils.

In the drawings, Figure 1 is a perspective view of the chair with the seat removed, to expose the novel features of construction, the view being taken from the front side. Fig. 2 is a back perspective view of the chair-irons complete, on an enlarged scale. Fig. 3 is a perspective view of the spring on a scale still more enlarged.

The legs are shown at A. The upper ends of the legs are mortised, as usual, into the fixed nut B. C is the vertical screw turning in the nut B. The spider has front arm D and side arms E E, similar to those of my former patented chair. The rear arm F of the spider has upon its upper side a lug or catch, G, against which bears the stirrup H of the spring. The said stirrup straddles the arm F, and has at each side of the arm a coil, I, which terminates in a straight spring-arm, K, which has an upward bearing against the back of the seat-frame, the arms K having end movement, as the chair is tilted, in their bearings in the bearing-plate M, similar to that of H of my former patent. N is a flange projecting from the middle of the spider above the coils, to prevent the rocking of the stirrup on the arm F. The spring H I K tends to tilt the seat forward against the stop-arm D, the arm F forming a stop to the backward tilting of the seat.

I claim herein as my invention—

The combination of spider D E F and seat L with the spring consisting of stirrup H, coils I I, and arms K K, having bearings G and M, respectively, upon the arm F, and beneath the seat-frame L, substantially as set forth.

SEBASTIAN HOFFMAN.

Witnesses:

SAML. KNIGHT,

CHARLES PICKLES.