

D. JENKINS.
TILTING CHAIR IRON.

Patented Jan. 7, 1890.

Fig. 1.

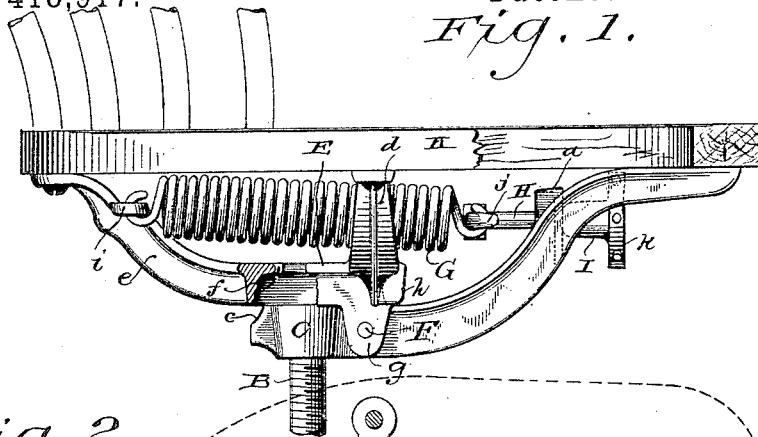


Fig. 2.

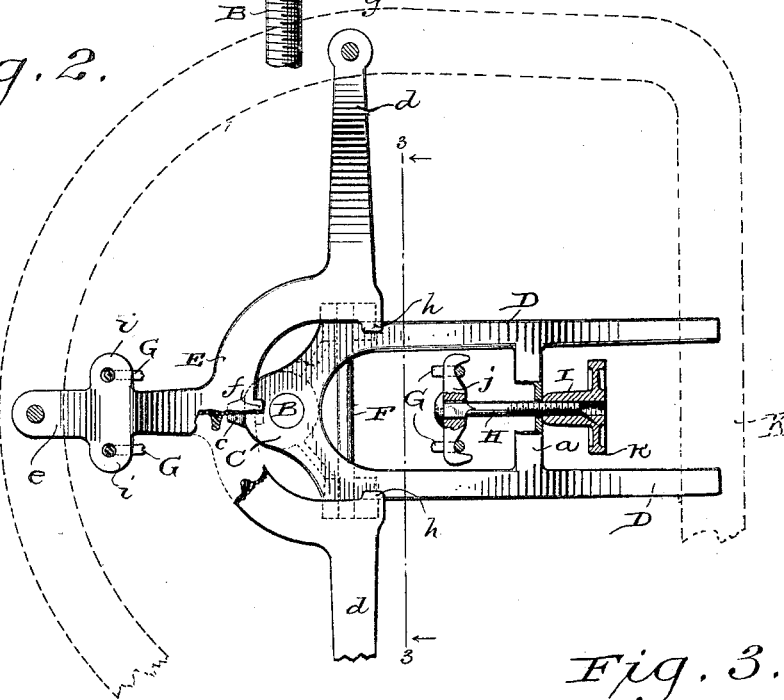
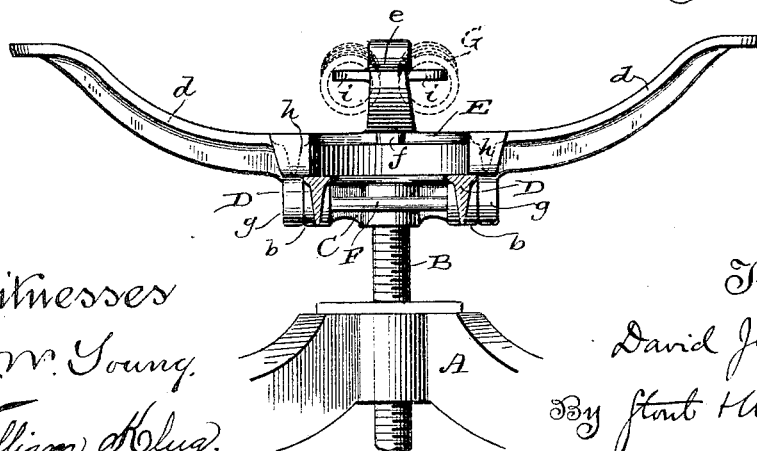


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

DAVID JENKINS, OF SHEBOYGAN, WISCONSIN.

TILTING-CHAIR IRON.

SPECIFICATION forming part of Letters Patent No. 418,917, dated January 7, 1890.

Application filed November 30, 1888. Serial No. 292,200. (No model.)

To all whom it may concern.

Be it known that I, DAVID JENKINS, of Sheboygan, in the county of Sheboygan, and in the State of Wisconsin, have invented certain
5 new and useful Improvements in Tilting-Chair Irons; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to tilting-chair irons; and it consists in certain peculiarities of construction, as will be fully set forth hereinafter, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of my device applied to a chair-bottom, partially broken away to illustrate details of construction. Fig. 2 is a plan view of my device, also partly broken away; and Fig. 3 is a vertical sectional view on the line 3 3 of Fig. 2.

A is the base or stool of the chair, from which rises a supporting-screw B of ordinary construction, having secured to its upper end a bracket C, having two upward and forward extending arms D D, united by a web *a*, preferably cast or formed integrally therewith. This bracket at the base of its arms is formed with hubs or bearings *b b*, and at its rear is provided with an inclined or beveled projection *c*, forming a stop, as hereinafter described.

E is a spider having three arms *d d e*, the latter, which is the rear arm, projecting up from the semicircular base of the spider, and in line with the arm *e* a lug *f* projects from the front of said spider-base and is designed to engage with the described stop *c* when the chair-seat is tilted back. The said spider is provided just below the junction of its side arms *d d* and semicircular base with hubs or bearings *g g*, through which and through the adjacent hubs or bearings *b b* of the bracket C there passes a journal or shaft F, which thus pivotally unites the said bracket and spider. The spider is extended inward, as shown at *h h*, adjacent to the described points of union of the side arms *d d* and semicircular base, and said inward projections *h h* normally rest upon the arms D D of the bracket C when the device is in operation and the springs G G are in place, which springs are strong spiral springs extending

from ears *i i* on the rear arm *e* of the spider to a yoke *j*, mounted on a screw-bolt H, which passes through a hole in the described web *a*, which unites the arms D D of the bracket C, beyond which the said screw-bolt H receives a tension-nut I, having a hand-wheel *k* for regulating the tension of the said springs G G.

The chair-seat K is secured to the three arms *d d e* of the spider by suitable screws, as shown, the front of said seat merely resting on the forward ends of the described arms D D of the bracket.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a tilting-chair iron, the combination, with a supporting-screw and bracket secured thereto, having upward-extending front arms rising to the level of the seat-bottom for directly supporting the front of the same, but free from attachment thereto, of a seat-spider pivoted to and adapted to normally rest on said bracket-arms and to engage with the rear of said bracket when tilted, and spring-connection between the bracket and spider, substantially as set forth.

2. In a tilting-chair iron, the combination, with a supporting-screw, of a bracket secured thereto and having forward and upward projecting arms rising to the level of the seat-bottom for directly supporting the front of the same, but free from attachment thereto, and a rearwardly-projecting stop, a spider adapted to be secured to a chair-seat and pivoted to said bracket, said spider having inward front projections adapted to normally rest on top of the arms of said bracket, and the rear of said spider adapted for engagement with the rearward-projecting stop of said bracket, and spring-connection between the bracket and spider, substantially as set forth.

3. In a tilting-chair iron, the combination, with a supporting-screw, of a bracket secured thereto and having forward and upward projecting arms united near their free forward ends by a web and having a rearwardly-projecting stop, a seat-spider pivoted to and adapted to normally rest on said bracket-arms and having ears projecting

from its rear arm and a projection for engagement with the said stop on the bracket, a screw-bolt extending through the web which unites the bracket-arms, a tension-nut on one
5 end of said bolt and a yoke on the other end thereof, and a pair of springs extending from said yoke to said ears, substantially as set forth.

4. In a tilting-chair iron, the combination,
10 with a supporting-screw, of a bracket secured thereto and having upward extending front arms rising to the level of the seat-bottom for normally supporting the front of the same without attachment thereto, a seat-spider
15 having laterally and rearwardly extended arms rising to the same height as the said

front arms of the bracket and adapted to be secured to the seat-bottom, said spider being pivoted to the lowest part of said front arms directly in front and below the top of the
20 supporting screw-socket and having inward front projections normally resting on said bracket-arms just above said pivotal point, substantially as set forth.

In testimony that I claim the foregoing I
25 have hereunto set my hand at Sheboygan, in the county of Sheboygan and State of Wisconsin, in the presence of two witnesses.

DAVID JENKINS.

Witnesses:

FR. KARSTE,

F. RAAB.