

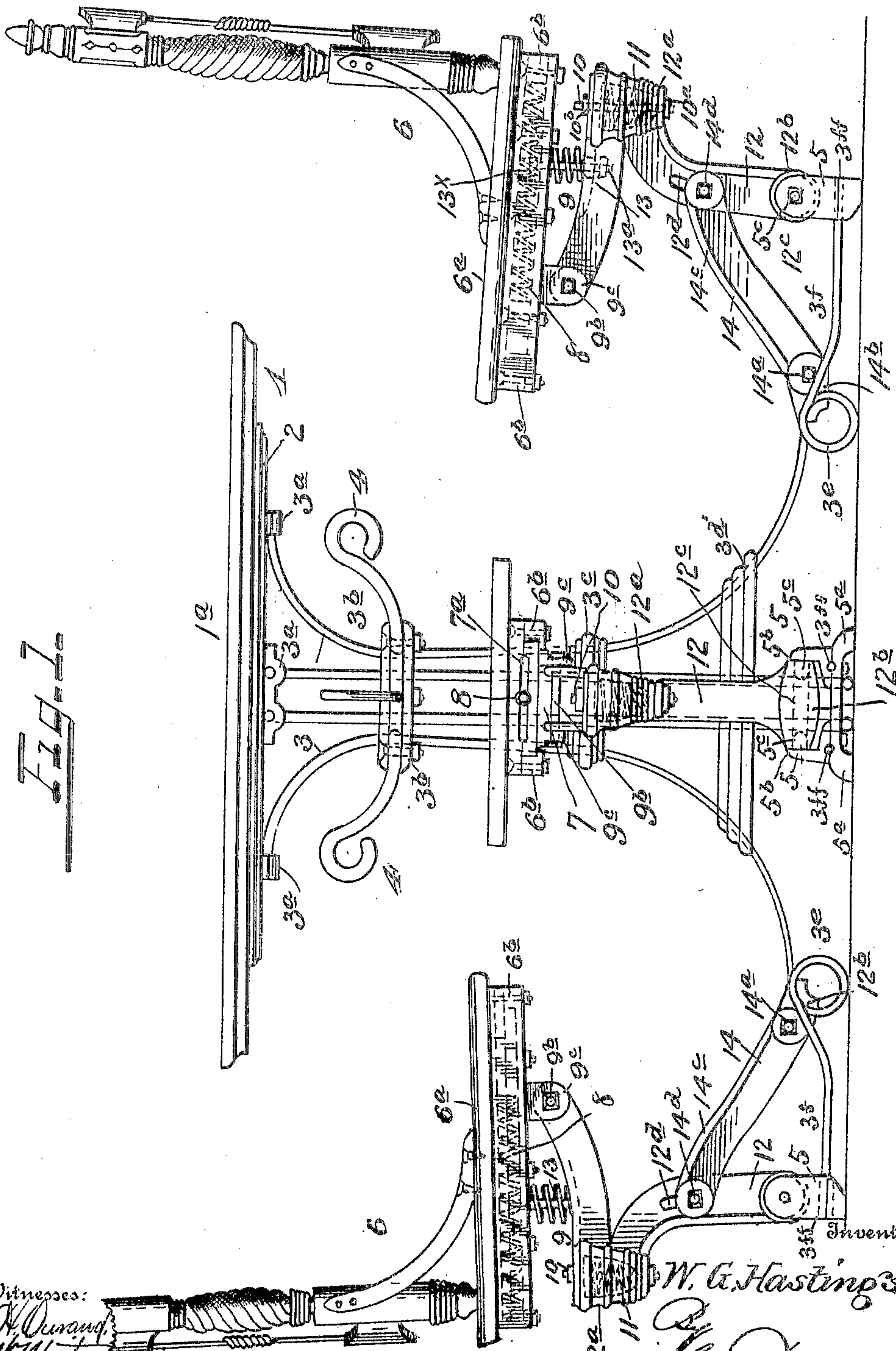
No. 804,658.

PATENTED NOV. 14, 1905.

W. G. HASTINGS.
COMBINED SEAT AND TABLE.

APPLICATION FILED JAN. 16, 1905.

3 SHEETS—SHEET 1.



Witnesses:
W. H. Durand
J. H. Hester

W. G. Hastings

Lawyer
Lawyer & Co.
Attorneys.

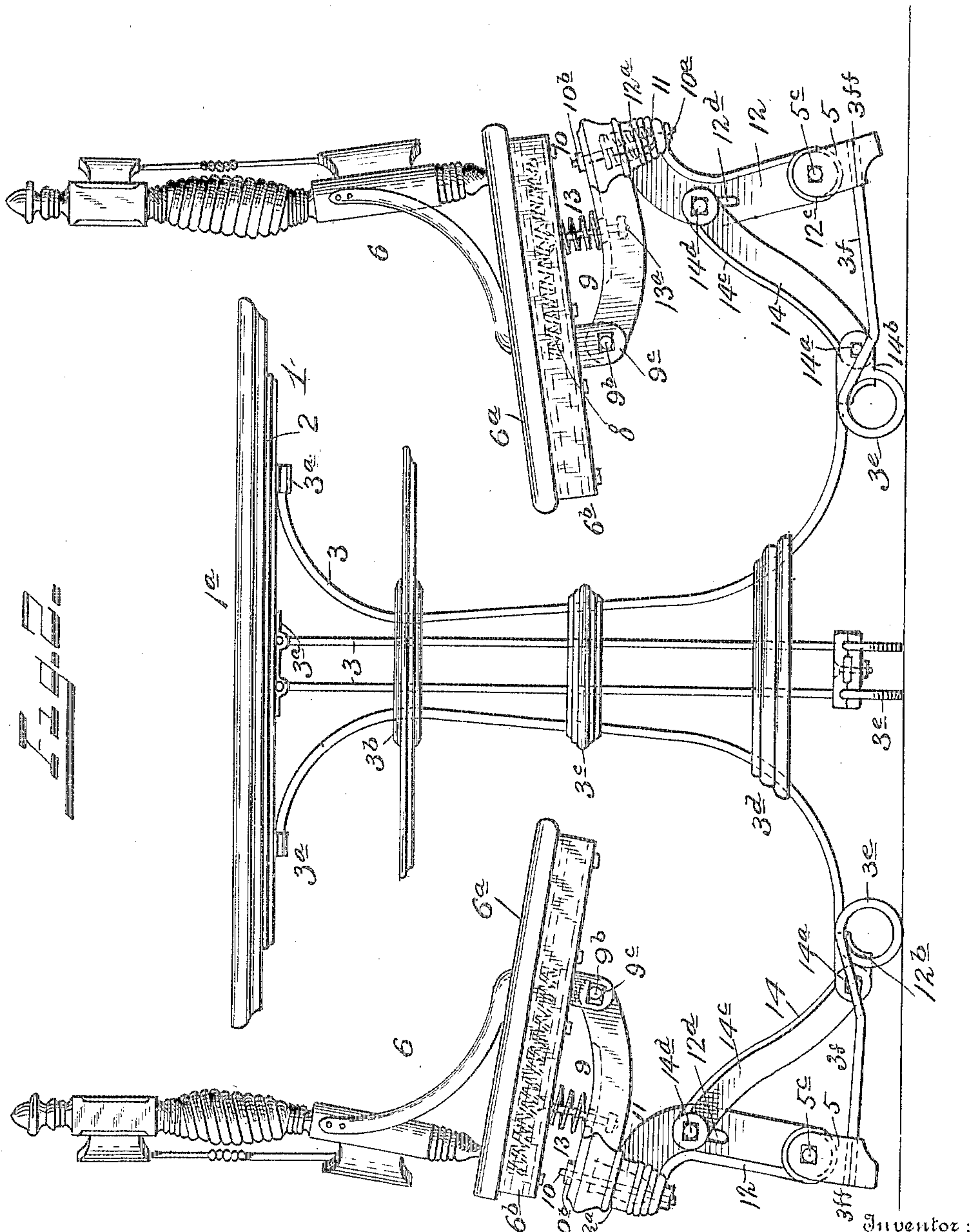
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Inventor:

W. G. Hastings

Witnesses:
W. N. Curand.
M. W. Foster

334
Lans Payer & Co.,
Attorneys.

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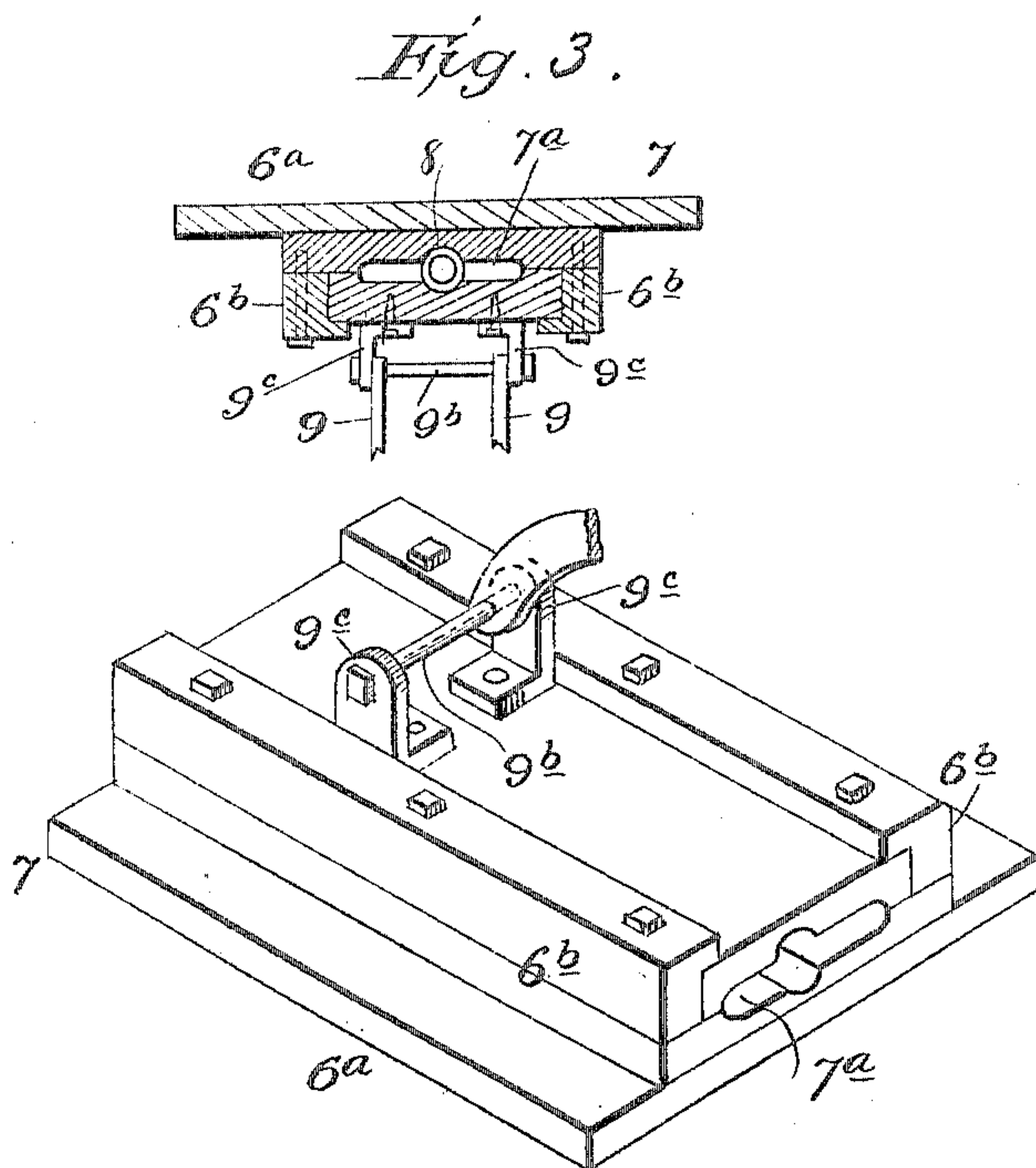
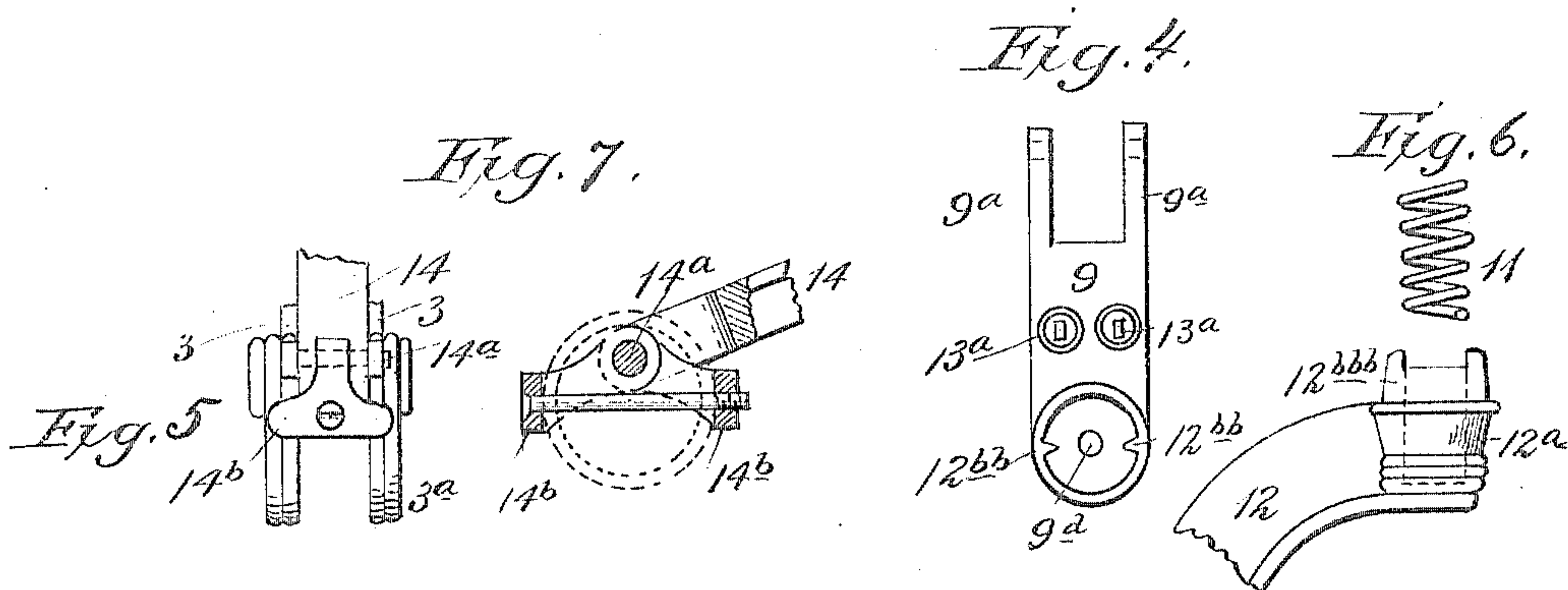


Fig. 8.

Inventor:

W. G. Hastings,

Witnesses:
M. N. O'Quinn
J. W. Hester

By *Sam. Rogers & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

W G. HASTINGS, OF PHILADELPHIA, PENNSYLVANIA.

COMBINED SEAT AND TABLE.

No. 804,658.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed January 16, 1905. Serial No. 241,363.

To all whom it may concern:

Be it known that I, W G. HASTINGS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in a Combined Seat and Table, of which the following is a specification.

My invention relates to improvements in what may be termed a "combined" desk, counter, shelf or table, and chair or chairs.

Said invention has for its object to provide for convenience and facility in use and to retain the chair or chairs initially in proper relation to the desk, &c., and to render it adjustable horizontally; also, to permit of its being tilted either forward or backward, as well as to enable the seat to automatically resume a forward position, and to provide for carrying out these ends in an expeditious and effective manner.

Said invention consists of certain structural features substantially as hereinafter fully disclosed, and particularly pointed out by the claims.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a view showing a table and a number of seats or chairs assembled therewith constructed upon the lines of my invention, one thereof being without a back. Fig. 2 is a view showing a table and two chairs assembled, the latter being in their unoccupied or slightly-tilted-forward position, the same being devised upon the same basis. Fig. 3 is a detailed section, with parts broken away, disclosing more especially the constituency of the seat or chair support for permitting the horizontally-sliding movement of the seat. Fig. 4 is a detached plan view of what may bestyled the "seat-support turn-table." Fig. 5 is a detailed broken-away view of the resilient or coiled spring terminal portion of one of the connecting members between a table, &c., and a chair or seat. Fig. 6 shows broken-away disassembled views of the upper end portion of the seat turn-table support or standard and its spring. Fig. 7 shows an additional detailed view, partly in-side and sectional elevation, more particularly, of one of the clamps effecting connection between the seat-standard brace and the coiled-spring portions of the leg-like or frame members. Fig. 8 is a detached inverted perspective view showing more especially the seat-supporting head-block.

In the carrying out of my invention I de-

vise or construct, for instance, a table 1, principally of a top or slab member 1^a and a plurality of leg-like or frame members 3, preferably of spring brass or steel and arranged in pairs, with the upper ends of each pair let into or passed through a suitably-produced common keeper or socket 3^a, screwed or otherwise secured to the table-top frame 2. Four of these pairs of spring brass or steel leg-like or frame members are provided in this particular instance, so applied to the table-top that a line produced between and from opposed pairs cross at right angles a line produced between and from the other opposed pairs or in usual table-leg fashion, as will be readily appreciated. Said pairs of leg-like or frame members are passed through apertures in and braced together by a number of preferably annular clamps or binders 3^b, 3^c, and 3^d, suitably arranged with relation thereto preferably as shown, the springy or resilient character of said members serving as said binders are pressed thereon to cause said binders to clamp said members. The uppermost binder or clamp 3^b, comprising two ring members, has its said members screwed or secured together upon the leg-like members 3, and between said rings is held or secured as a preferable way therefor the annular or circular portion of a combined hat and coat rack 4, the convenience and desirability of which in this connection are apparent. These clamps or binders may all be produced in any ornamental contour desired, and may or may not be filled in with a suitable cement to aid their holding action, it being my intention, however, particularly in the manufacture of the larger or more elaborate and expensive styles of the tables, desks, &c., to use the cement filling. Said leg-like or frame members are provided at their relatively lower ends with coiled springs 3^e, the same being formed by convoluting or giving said leg-like or frame members each preferably three or more turns or coils, thus rendered effective to cause the seat-supporting standard presently described and its connections with said members to automatically assume a position taking the same clear above or out of contact with the floor or base-line when the chair or seat is unoccupied. Said frame members are then continued or extended some distance beyond said coiled springs 3^e, forming extensions or arms 3^f, received by or within corresponding apertures 3^{ff} of base members or clamps 5, next described.

The base members or clamps 5 are each composed of two firmly-bolted-together parts or sections 5^a 5^b, the lower one adapted to have a firm footing upon the floor or surface 5 and the upper one resting upon the lower one, said sections or parts being provided in their meeting surfaces with opposed recesses constituting or forming the apertures 3^{ff} above noted, said base members or clamps 10 being further referred to later.

Seats or chairs 6 are suitably juxtaposed to the above-described table, and each has screwed or otherwise secured to the under side of its bottom member or seat proper, 6^a, a "runway" 15 6^b, composed, preferably, of two suitably-secured-together parts, as shown, said seats being provided with backs or devoid of the latter, as may be desired, as shown. A head-block or slide 7 for each chair or seat is arranged to rest upon the inward extended 20 horizontal bottom edge flanges of the runway 6^b, said head-block or slide and upper part of the latter being preferably cut away or reduced, as at 7^a, to lessen frictional contact 25 therebetween, the utility of which is obvious.

Suitably arranged or received partially within the meeting or opposed surfaces of the runway 6^b and the head-block or slide 7 is a helical or coiled spring 8, adapted to deliver 30 its action upon the seat and effective to automatically move or adjust the latter forward into convenient proximity to the table 1 either when said seat is occupied or unoccupied, the desirability of which is apparent.

35 A turn-table 9, preferably of the construction disclosed particularly by Fig. 5, has the branches or prongs 9^a of its bifurcated portion or end connected by a common pivot-bolt 9^b to fixed lugs 9^c of the slide or head- 40 block 7. Said turn-table has in its opposite end portion an aperture 9^d, and through said aperture is passed a pivot-bolt 10, while opening through the lower side of said turn-table is a recess or cavity suitably indenting the 45 latter to receive the upper portion of a helical spring 11 encompassing said pivot-bolt, the action of said spring being effective to hold the seat squarely toward the table, and to therefore return said seat, when the occupant 50 leaves it, automatically to such position.

A standard 12, having at its upper end a hub enlargement 12^a to receive or house the lower portion of spring 11 and the pivot-bolt 10, has its lower end also preferably provided 55 with a practically cylindric hub enlargement 12^b with an end or laterally opening bore 12^c to receive axial studs 5^c upon the upstanding lateral portions 5^b of the clamp or base member 5 for pivotally connecting thereto and 60 supporting thereon said standard 12 to primarily permit the seat to stand in its initial forwardly-tilted position and, as before noted, to be elevated from the floor under the action of the coiled springs 3^e. The pivot-bolt 10

has its projecting ends held in position to the 65 parts 12^a and 9 by nuts 10^a 10^b, suitably applied thereto above and below said parts, said bolt being thus adapted to be vertically adjusted independently of the latter to provide 70 for the removal of its upper end a greater or less distance from the seat or the slide 7 thereof, for accordingly limiting the rearward tilting of the seat, as may be required.

The turn-table 9 and the hub enlargement 12^a are equipped upon their opposed surfaces 75 with buffers or stops 12^{bb} 12^{bbb}, adapted to have mutual contact at such time in the turning of the seat or chair as to preclude the complete circling or unlimited turning of the seat to prevent the back of the latter from 80 contacting with or striking the table or desk.

Springs 13 of the helical or other preferred type are suitably held in position by bolts 13^x and nuts upon the turn-table 9, as at 13^a, (see 85 Figs. 1 and 5,) with their upper end portions and encircled bolts so disposed as to provide for the cushioning of the seat thereon and permit of the required forward and backward tilting thereof.

A brace or stay 14 has its lower end con- 90 nected by a pivot-bolt 14^a to a clamp member 14^b, suitably secured to each pair of leg-like or frame members 3, the upper portion of said stay or brace member being bifurcated or forked, as at 14^c, with the branches or 95 prongs thus formed embracing the web of the standard 12. Through the upper ends of said branches or prongs 14^c is inserted and suitably nutted or held in place by a bolt 14^d, 100 also passing through an elongated slot 12^d in said standard to permit the requisite movement of the latter as it is flexed or tilted forward with the seat, said bolt of course necessarily limiting the tilting movement of 105 said standard with the superposed turn-table carrying said seat.

As previously briefly noted, in Fig. 2 is shown a table assembled with only two opposite chairs produced upon the lines of my invention, illustrating more fully the forwardly- 110 tilting position of the chairs and their supporting-standards and the clamp or base members for the latter.

Latitude is allowed as to details herein, since they may be changed according to circum- 115 stances without departing from the spirit of my invention.

I claim--

1. An assembled seat, its standard and additional article of furniture, a spring mem- 120 ber, and a brace, said spring member having one arm connected to said article of furniture and its other arm connected to the standard of said seat and said brace connected to said spring member and yieldingly connected to 125 said standard.

2. An assembled seat and additional article of furniture, the latter having a frame or leg-

like member connected to an adjunctive part of the supporting-standard of the former, said frame or leg-like member having a coiled-spring portion and an extension beyond said coiled-spring portion connected to said standard adjunctive part and said coiled-spring portion effective to elevate said standard and adjunctive part above the base-line or floor and forwardly tilt said seat.

3. An assembled number of seats and an additional article of furniture, the latter having leg-like or frame members with their lower portions formed into coiled springs and connected to adjunctive parts of the supporting-standards of said seats, and effective to elevate said standards and adjunctive parts above the base-line or floor and to forwardly tilt said seats.

4. An assembled seat and an additional article of furniture, said seat having a supporting-standard and the last noted having an adjunctive part upon which it is superposed, and said additional article of furniture having a frame or leg-like member formed with a coiled spring and connected to said adjunctive part, said coiled spring effective to elevate said standard with said adjunctive part above the base-line or floor and to forwardly tilt said seat.

5. An assembled seat and additional article of furniture, the latter having a leg-like or frame member whose lower portion is formed with a coiled spring and an extension or arm beyond said spring, and said seat having a supporting-standard, and said standard being superposed upon an adjunctive part consisting of a base member or clamp, and said arm or extension having one end secured between the parts or sections of said base member or clamp.

6. An assembled seat and additional article of furniture, the latter having a leg-like or frame member whose lower portion is formed with a coiled spring and an extension or arm beyond said spring, and said seat having a supporting-standard and said standard being pivotally supported upon an adjunctive part consisting of a base member or clamp, and a brace or stay fixed to said frame member and movably connected to said standard, said arm of said frame member being secured in place by said base member or clamp.

7. An assembled seat and additional article of furniture, the latter having a frame or leg-like member whose lower portion is formed with a coiled spring, a turn-table for said seat, a standard forming a support for said turn-table, a base member having said standard superposed thereon, said frame member being secured to said base member, and means

for bracing said standard from said frame member.

8. An assembled seat and additional article of furniture, comprising a "head-block" arranged in said seat, a spring arranged in connection with said seat and "head-block" for automatically moving said seat forward, a turn-table connected to said "head-block," and means for supporting said turn-table in position.

9. An assembled seat and additional article of furniture, comprising a "head-block" arranged in said seat, a spring arranged in connection with said seat and "head-block" for automatically moving said seat forward, a turn-table connected to said "head-block" and having a hub enlargement at one end, and a suitably-supported standard having a corresponding enlargement at its upper end, said enlargements having pivot-bolt connection.

10. An assembled seat and additional article of furniture, comprising a "head-block" arranged in said seat, a turn-table connected to said "head-block" and having a chambered enlargement at one end, a supporting-standard having a corresponding enlargement at its upper end, and a spring arranged in connection with said enlargements for automatically holding and presenting said seat "squarely" to said additional article of furniture, said enlargements having pivot-bolt connection.

11. An assembled seat and additional article of furniture, comprising a "head-block" arranged in said seat, a turn-table connected to said "head-block," a spring arranged in connection with said "head-block" and turn-table for cushioning said seat in position upon said turn-table, and supporting means for said turn-table.

12. An assembled seat and additional article of furniture, comprising a "head-block" arranged in said seat, a spring applied to said "head-block" and seat for automatically moving said seat forward, a turn-table pivotally connected to said "head-block," a spring arranged in connection with said turn-table for cushioning said seat thereon, a supporting-standard for said turn-table, said turn-table and standard having pivot-bolt connection, and a spring arranged in connection with said turn-table and standard for controlling the horizontal movement or turning of said seat.

In testimony whereof I affix my signature in presence of two subscribing witnesses.

W G. HASTINGS.

Witnesses:

A. M. THOMPSON,
WM. P. ROWLAND.