No. 764,287. PATENTED JULY 5, 1904.

J. GILSON.

ADJUSTMENT FOR BACKS OF TYPE WRITER OR OTHER CHAIRS.

APPLICATION FILED SEPT. 15, 1903.

NO MODEL.

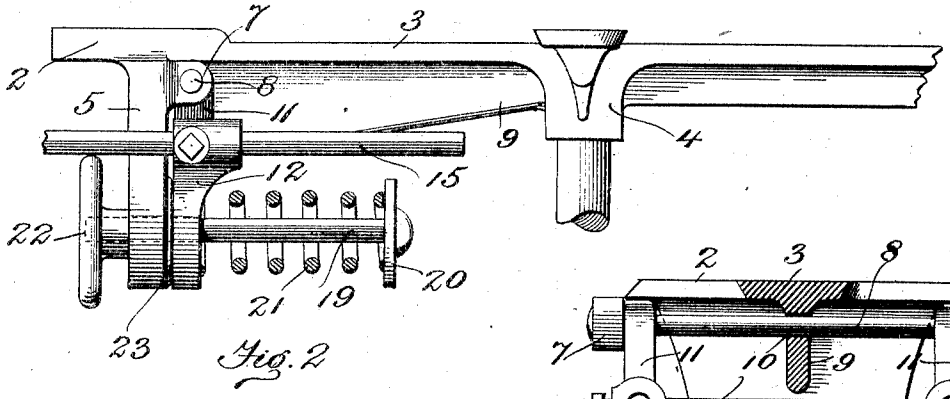


Fig. 2.

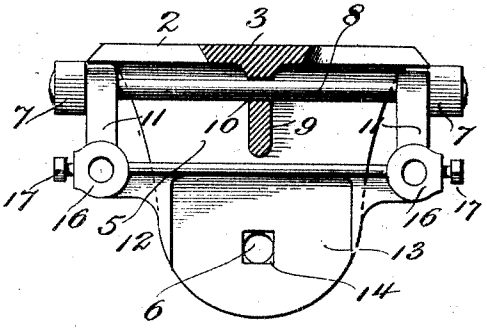
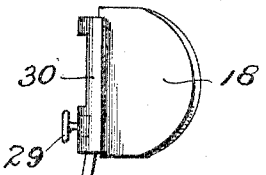


Fig. 3.



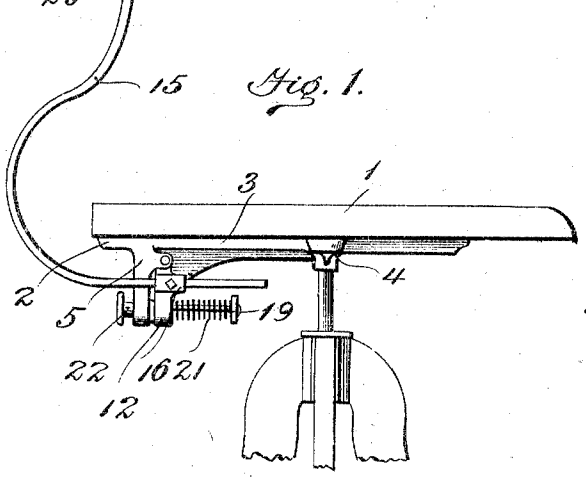


Fig. 1.

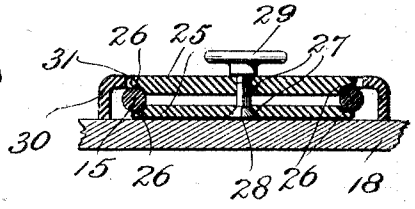


Fig. 4.

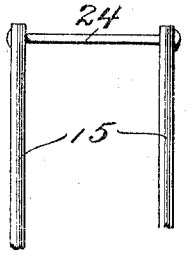


Fig. 6.

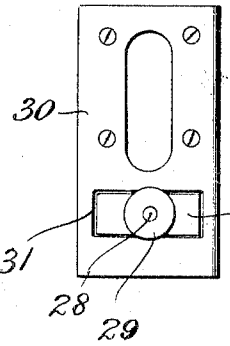


Fig. 5.

Witnesses:
T. S. Beall.
H. C. Matthews

John Gilson,
Inventor,
by W. L. Dewall.
Attorney.

No. 764,287. Patented July 5, 1904.

UNITED STATES PATENT OFFICE.

JOHN GILSON, OF PORT WASHINGTON, WISCONSIN.

ADJUSTMENT FOR BACKS OF TYPE-WRITER OR OTHER CHAIRS.

SPECIFICATION forming part of Letters Patent No. 764,287, dated July 5, 1904.

Application filed September 15, 1903. Serial No. 173,347. (No model.)

To all whom it may concern:

Be it known that I, JOHN GILSON, a citizen of the United States, residing at Port Washington, in the county of Ozaukee and State of Wisconsin, have invented an Adjustment for Backs of Type-Writer or other Chairs, of which the following is a specification.

This invention relates to adjustable backs for type-writer and other chairs, and particularly to those wherein are employed a pair of resilient steel rods forming the back-standards, though, as will hereinafter appear, the device may be readily adapted for backs employing other forms of standards.

The principal objects of the invention are to produce a simple and economical arrangement, preferably formed as a part of the chair-iron, though not necessarily so, for adjustably and pivotally connecting the back-support to the seat, thereby lending ease and comfort to the operator occupant.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 represents the conventional style of a type-writer-operator's chair, the same embodying my improvements. Fig. 2 is a side elevation in detail of the adjustment, showing the same as being formed as a part of the chair-iron. Fig. 3 is a transverse vertical section through the spider-arm between the post and my improved adjustment, the latter appearing in front elevation. Fig. 4 is a transverse section taken horizontally through the chair-back and adjusting-clamp. Fig. 5 is a detail in elevation of the cover-plate forming a part of the clamp, and Fig. 6 is a detail of the upper ends of the back-supporting standards.

Similar numerals of reference indicate similar parts throughout the figures of the drawings.

In practicing my invention I attach to the under side near the rear edge of the chair-seat 1 the base-plate 2, which may be independent or, as shown, formed as a part of the rearward-disposed spider-arm 3 of the chair-iron 4, as preferred.

Depending from the base 2 near the rear edge is a rigid arm 5, having a circular or other perforation 6 near its lower end, and at each side of the arm 5 near its juncture with the plate 2 is formed a forwardly-disposed lug 7, the pair thus formed being connected by a transverse pin 8. Where the plate 2 is cast or otherwise formed integral with the spider-arm 3 the web 9 of the latter is provided with a transverse opening 10, through which the pin 8 passes. (See Fig. 3.)

Between the lugs 7 and suspended loosely from the pin 8 thereof by means of upwardly-projecting lugs 11 is a rocker 12, the same having a central depending portion 13, provided, preferably, with a square opening 14, which alines with the perforation 6, heretofore referred to. This rocker 12 may be provided with any form of back-standard-receiving socket; but in the present instance being designed for the reception of the lower terminals of that class of back-supports composed of a pair of resilient spring-rods 15 it has formed below each of its lugs 11 a transversely-disposed hub or socket 16, each being provided with a binding-screw 17, adapted to impinge upon the rod therein, and thus secure it in its adjusted position. Of course by such adjustment the back 18 may be laterally positioned to suit the occupant of the chair.

The tension device employed is of the conventional style and consists of the tension bolt or rod 19, the compression-plate 20, spring 21, and hand-wheel 22. The rod is located in the openings 6 and 14, being of a diameter approximating the same, and the spring is seated between the compression-plate and the adjacent face of the rocker arm or extension 13. At the opposite side of the arm 5 the nut or wheel 22 is located. Through a manipulation of the nut or wheel 22 the rocker may be placed under more or less spring tension.

The sockets or hubs 16 being located at one side of or below the pin 8, it will be apparent that when the back is leaned against the rocker springs forward at its lower end a limited distance or until it comes in contact with the lower edge of the web 9, also that when such weight is removed the spring tends to return these parts to their normal positions. This yielding of course is in addition to that usu-

ally supplied by the resilient rods 15, so that as a result the back of the type-writer operator or other occupant is always yieldingly and comfortably supported whatever its position.

In order to prevent the apparel of the occupant being caught between the arm 5 and rocker arm or extension 13, I may form a rib, as 23, upon the inner face and at some distance from the edge of either. (See Fig. 2.)

Any desired and convenient means may be provided for securing the back 18 adjustably or otherwise to the standards or rods 15. In the present instance and as a convenient method after connecting the upper ends of the rods 15 by a pin 24 I apply to the opposite sides of the rods and extending between the same a pair of clamping-plates 25. These plates have their opposite vertical edges slightly grooved, as at 26, to fit the rods 15 and are centrally perforated, as at 27, to receive an adjusting or clamping bolt 28, the inner or headed end of which may be let into the inner plate. The outer end of the bolt is provided with a nut or wheel 29.

Over the whole, including the upper ends of the rods 15, is arranged a cover-plate 30, secured rigidly to the back 18 by screws. This plate has an oblong opening 31 formed therein near its lower end, and the same receives the outer clamping-plate 25. It will be obvious that by releasing the clamping-plates the same, together with the cover-plate and back 18, may be vertically adjusted, and subsequently by tightening upon the plates through the wheel and screw the back will be secured in its adjusted position.

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

1. The combination, in a chair, of an adjustment, the same consisting of a base-plate secured to the chair-seat and having a depending rigid arm, a rocker supported pivotally at the front thereof and below the seat, a back-standard-receiving means carried by the rocker, a tension device connecting and normally and yieldingly forcing the rocker toward said depending arm, and a back-standard mounted in said back-standard-receiving means of the rocker.

2. The combination, in a chair, of an adjustment, the same consisting of a base-plate having a depending rigid arm, a rocker supported pivotally at the front of the same, and under the chair-seat, a back-standard-receiving means carried by the rocker, a tension device connecting and normally and yieldingly forcing the rocker toward said arm, and a back-standard adjustably mounted in said back-standard-receiving means.

3. An adjustment for chair-back standards, the same consisting of a base-plate having a depending rigid arm provided with a perforation, forwardly-disposed lugs at one side of the arm, a rocker located between the lugs and pivoted thereto and having back-standard-receiving means and an alining perforation, and a spring-tension device having its adjusting-rod passed through the perforations, an adjusting-nut at one end of the rod and a tension-spring at the opposite end.

4. The chair-iron, having one of its spider-arms widened to form a base-plate and provided with a depending perforated arm, lugs in advance thereof, a rocker located in front of the arm having a corresponding perforation, opposite side hubs bored and provided with binding-screws, a rod connecting the lugs, lugs extending from the rocker and loosely connected to the rod, and a spring-tension device having its tension-rod located in the perforations, its spring at one side thereof and its hand-wheel at the other.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN GILSON.

Witnesses:
EDWARD BARELMAN,
T. A. BOERNER.