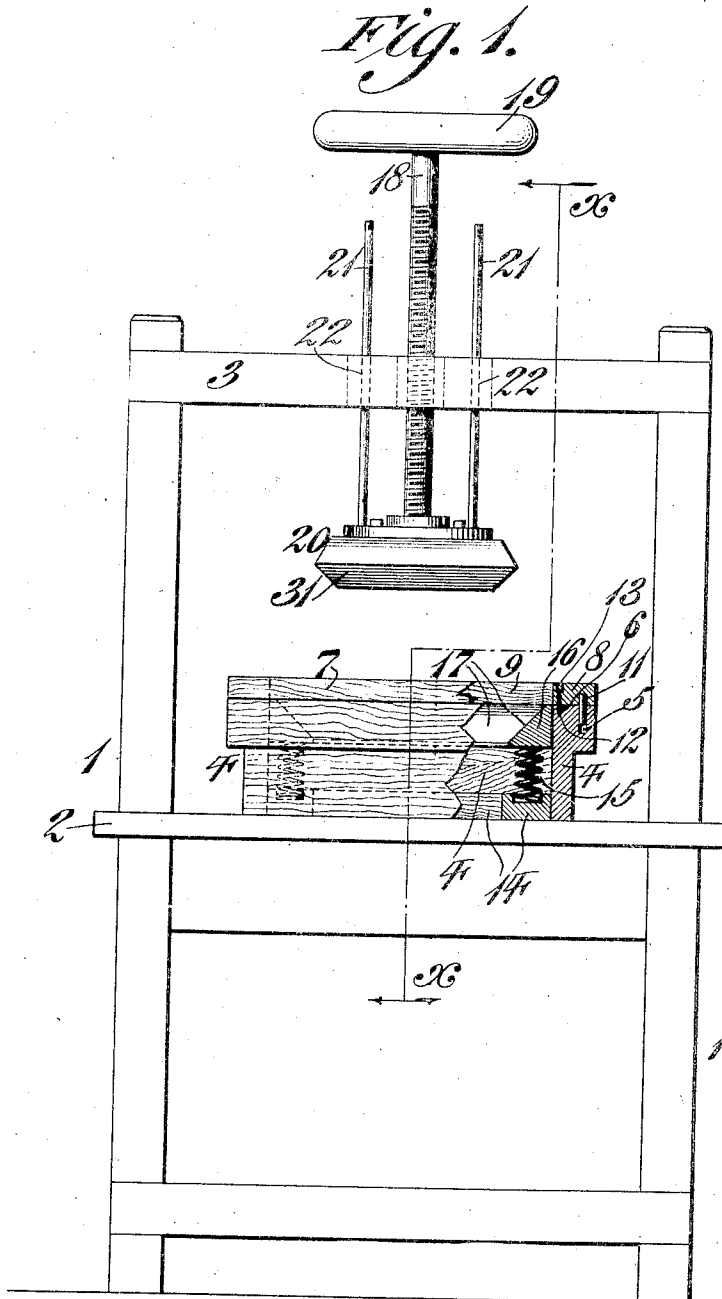


B. E. KIPP.
 UPHOLSTERING DEVICE.
 APPLICATION FILED MAY 5, 1909.

953,470.

Patented Mar. 29, 1910.

3 SHEETS—SHEET 1.



Witnesses

L. Couville,
 P. F. Nagle.

Inventor

By

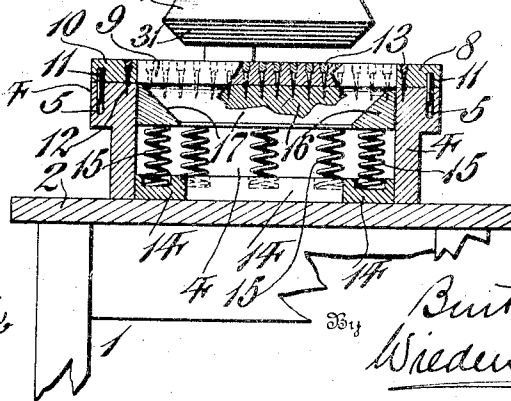
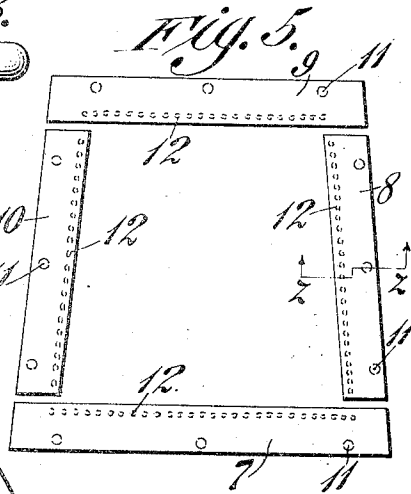
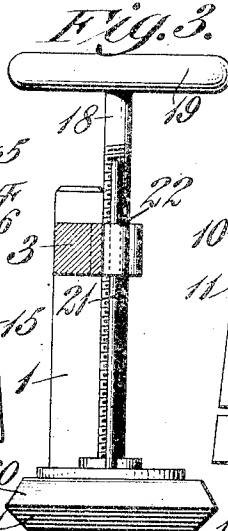
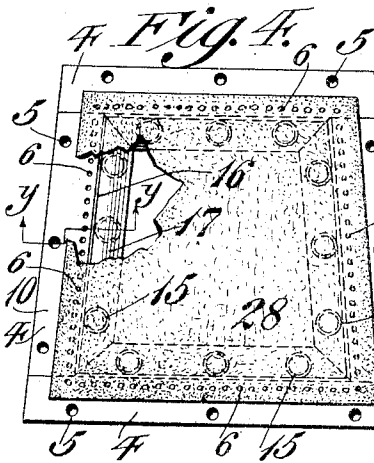
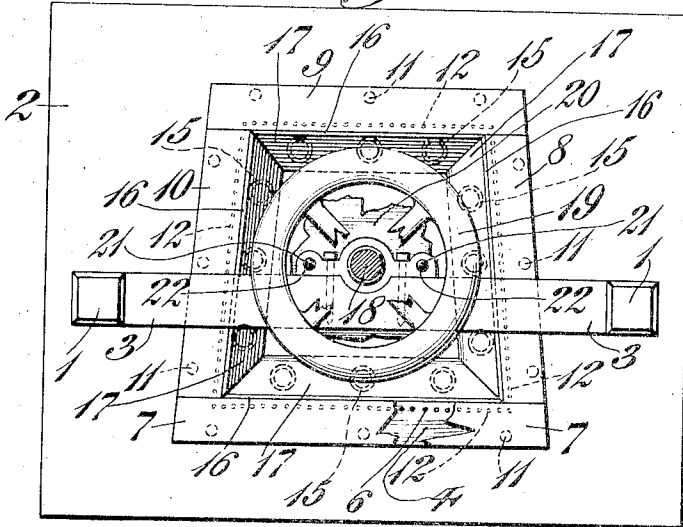
Burton E. Kipp.
 Wickerstein & Kribbaum
 Attorneys

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3 SHEETS—SHEET 2.

Fig. 2.

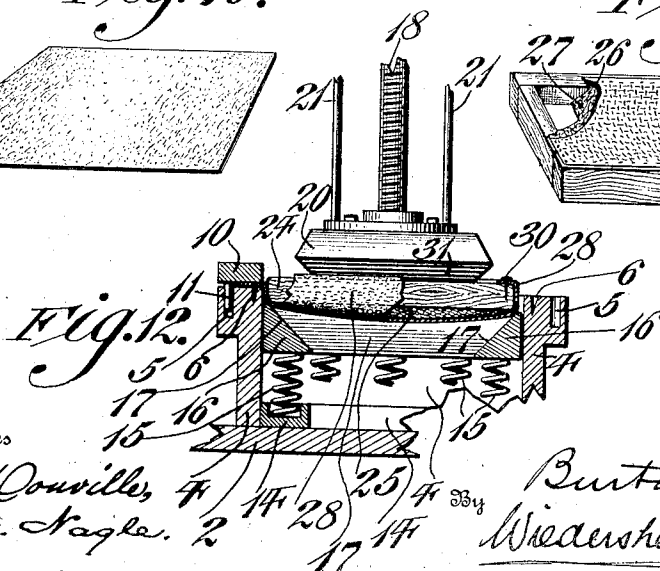
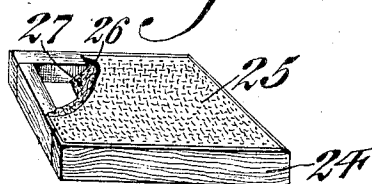
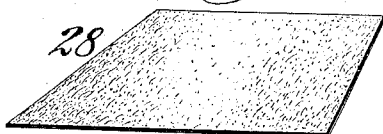
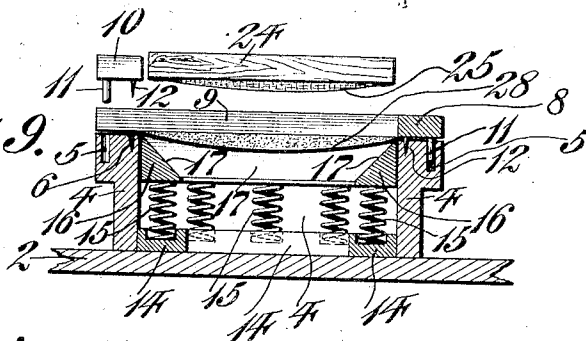
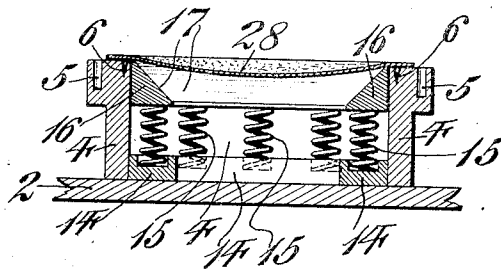


Witnesses
L. Douville,
O. F. Nagle.

Inventor
Burton E. Kipp.
Wiedersheim & Fairbank.
Attorneys

953,470.

3 SHEETS--SHEET 3.



L. Douville, 4
P. F. Nagle. 1/2

Burton E. Kipp.
Wiedersheim & Finkbeiner.
Attorneys

UNITED STATES PATENT OFFICE.

BURTON E. KIPP, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE SIKES COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF NEW YORK.

UPHOLSTERING DEVICE.

953,470.

Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed May 5, 1909. Serial No. 494,600.

To all whom it may concern:

Be it known that I, BURTON E. KIPP, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Upholstering Device, of which the following is a specification.

My present invention consists of a novel construction of an upholstering device which is especially adapted to be employed for securing the leather or other covering to chair or other seats, whereby the cover is placed on the seat under a desired tension and whereby the seats may be covered much more rapidly than has heretofore been deemed possible.

It further consists of a novel construction of a resilient support for the seat, novel means for supporting the covering and means for stretching the covering and retaining it in place while the same is being secured to the seat.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

For the purpose of illustrating my invention, I have shown in the accompanying drawings but one form thereof, since this embodiment has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein set forth and described.

Figure 1 represents a front elevation, partly broken away, of an upholstering device, embodying my invention. Fig. 2 represents a plan view thereof. Fig. 3 represents a section on line $x-x$, Fig. 1. Fig. 4 represents a plan view of a portion of the device showing the manner in which the cover is held in position. Fig. 5 represents a plan view of certain parts employed in detached position. Fig. 6 represents a section on line $y-y$, Fig. 4. Fig. 7 represents a section on line $z-z$, Fig. 5. Fig. 8 represents a sectional view of a portion of the device showing the leather or other covering in position. Fig. 9 represents a sectional view similar to Fig. 8 but showing in addition one of the cover retaining strips and the seat about to be upholstered, in

position above the covering. Fig. 10 represents a perspective view of the leather or other cover in detached position. Fig. 11 represents a perspective view of the seat which is to be covered, a portion of the cushion being broken away in order to more clearly indicate the construction thereof. Fig. 12 represents a sectional view of a portion of the device showing the position the parts assume at a different stage of the operation.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates a frame or standard on which is mounted a table 2 above which is located a cross bar 3.

4 designates a support mounted on the table 2 and having any desired contour, the same in the present instance being illustrated as having a rectangular shape. The upper portion of the sides of the support 4 are provided with a series of apertures 5 located near the outer edge, in the present instance, and with rows of apertures 6 located, in the present instance, near the inner edge.

7, 8, 9 and 10 designate strips or bars which are adapted to be seated on the upper face of the support 4, said strips being provided with the dowels 11 which are adapted to enter the apertures 5 in the support 4 and the strips also have fixedly secured therein the pins or spikes 12 which are fixed within the strips by means of the plugs 13.

14 designates a rectangular frame preferably constructed of independent strips which are suitably recessed in order to receive the lower end of the springs 15, the upper ends of which engage the movable bars 16, the inner faces of which are beveled, as indicated at 17, and the outer ends of these movable bars 16 are inwardly inclined in order that they will be properly guided within the support 4.

18 designates a screw having threaded engagement with the cross bar 3 and provided with an actuating handle 19, said screw being suitably secured to the presser head 20 which latter has secured thereto the guide rods 21, which engage the aperture 22 in the cross bar 3, in order to prevent the rotation of the presser head 20. The lower face of the presser head 20 is preferably inwardly deflected or beveled, as indicated at 31.

24 designates a seat which has secured

thereto in any suitable manner a cushion 25 which comprises sides 26 having therebetween the stuffing or filling 27.

28 designates the cover which is constructed of leather or any other suitable material.

The operation of my novel device can now be readily understood and is as follows:—
The cushion 25 is secured to the seat 24 by any suitable fastening devices. The cover of leather or other material 28 is then placed on top of the support 4 and the strips 7, 8, 9 and 10 are then placed in position so that the dowels 11 carried thereby will enter the apertures 5 and the pins 12 carried thereby, passing through the cover 28 and enter the apertures 6 in the support 4 thereby fixedly securing the leather or other covering material 28 to the support 4. The seat 24 is then inverted, as indicated in Fig. 9, and placed on the cover 28. The presser head 20 is then lowered by means of the actuating handle 19 into contact with the seat 24 and as the same moves downwardly it causes the leather or covering material 28 to be stretched, as will be understood from Fig. 12. The strips 7, 8, 9 and 10 are then removed and as one side strip is removed the cover 28 is deflected over the seat 24 and secured thereto by means of suitable fastening devices 30. After the side strips 7, 8, 9 and 10 are removed the handle 19 is actuated to raise the presser head 20 so that the seat in its finished condition may be removed from the upholstering device.

As the members 16 are independent of each other, provided with the beveled faces 17, and yieldingly supported by means of the springs 15, any irregularity in the tension of the material will be taken care of so that the leather or other covering 28 will be stretched in an even manner over the seat.

By the employment of my novel device the upholstering of articles as chair seats or equivalent constructions may be very rapidly and economically carried out and the proper tension given to the cover so that the cover may be secured to the seat in such a manner as to present a neat and artistic appearance.

By mounting the head so that the same is non-rotatable a direct thrust is obtained on the seat when the presser head 20 is lowered so that there is no danger of the seat being twisted or distorted from its position during the operation of securing the cover thereto.

It will now be apparent that I have devised a new and useful construction of an upholstering device which embodies the features of advantage enumerated as desirable in the statement of invention and the foregoing description and while I have in the present instance shown and described the preferred embodiment thereof, which in practice has been found to give very ad-

vantageous results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit and scope of the invention or sacrificing any of its advantages.

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

1. In a device of the character described, a support, means for temporarily securing the outer portions of a cover thereto, an inner support comprising a plurality of members independently and yieldingly mounted, and means for pressing the article to be upholstered and the cover against said inner support.

2. In a device of the character described, a support suitably mounted and having pin receiving apertures and dowel receiving apertures in its upper face, a plurality of strips having dowels and pins carried thereby, said dowels being adapted to enter the dowel apertures of the support, said pins being adapted to pass through a cover and enter the pin receiving apertures in said support and retain the cover in position; and a press head movably mounted above said support.

3. In a device of the character described, a frame, a table thereon, an outer support carried by said table, means for securing a cover to said outer support, an inner support comprising a plurality of members independently and yieldingly mounted within said outer support, and a press head non-rotatably and movably mounted above said inner support.

4. In a device of the character described, a table, a support thereon having a series of apertures therein, a plurality of strips adapted to be seated on said support, dowels carried by said strips and engaging one of the rows of apertures, pins carried by said strips for engaging the other row of apertures, said pins passing through a cover to retain the latter in position, a plurality of strips within said support, yielding means for supporting said strips, a press head supported above said table, and actuating means for said press head.

5. In a device of the character described, a frame, a table thereon, an outer support on said table, means for temporarily securing the edges of a cover thereto, a plurality of bars independently and movably mounted within said support, tension devices for said bars, a press head movably mounted above said bars, and actuating means for said bars.

6. In a device of the character described, a frame, an outer support carried thereby, means for temporarily securing the edges of a cover thereto, a plurality of bars within said support and provided with inclined upper faces, a plurality of springs for sup-

porting said bars, a press head carried by said frame, and actuating means for the press head carried by said frame.

7. In a device of the character described, 5 a support suitably mounted, means for temporarily securing the edges of a cover thereto, a plurality of bars within said support, the upper faces thereof being inclined, a plurality of springs for supporting said 10 bars to permit independent movement of each bar, a press head having its outer side beveled and supported above said bars, and actuating means for said press head.

8. In a device of the character described, 15 a frame, a table thereon, an outer support on said table, a plurality of strips supported on said table within said support, springs engaging said strips, a plurality of bars having their upper faces beveled and located above said table within said support, 20 springs intermediate said bars and strips, means for temporarily securing the edges of a cover thereto, a press head mounted above said bars, and actuating means for said 25 press head.

9. In an upholstering device, means for holding the outer portion of the cover, means for pressing the article to be upholstered against the cover to stretch the latter, and a yielding device consisting of a 30 plurality of independent and separate members against which only the outer edge of the stretched cover is clamped to retain it in stretched position while the outer portion 35 of the cover is being permanently secured to the article being upholstered.

10. In an upholstering device, means for holding the outer portion of the cover, means for pressing the article to be upholstered against the cover and a plurality of 40 independent and yielding mounted supports coacting only with the outer edge of

the cover to retain the latter in the position it assumes after the article is pressed thereagainst while the cover is being permanently secured to the article. 45

11. In an upholstering device, means for temporarily supporting the outer portion of the cover, means for pressing the article to be upholstered against the cover and independently and yieldingly mounted supports 50 for clamping the outer edge of the cover with respect to the outer edge of the article being upholstered while the outer portions of the cover are being permanently secured 55 to the article.

12. In an upholstering device, a support, means for temporarily securing a cover thereto, means for pressing the article to be upholstered against said support and a plurality of independent members yieldingly 60 supported and coacting only with the outer edge of the top portion of the cover to clamp said cover with respect to the article to which it is to be secured near the outer 65 edge of such article during the securing of the cover thereto.

13. In an upholstering device, a support, means for temporarily securing a cover to said support, means for pressing the article 70 to be upholstered against the cover to stretch the latter, and independent and separate members having inclined contact faces, and yieldingly mounted for clamping only the outer edge of the cover in its stretched 75 condition with respect to the article being upholstered, each of said members being movable independently of the other members.

BURTON E. KIPP.

Witnesses:

H. S. FAIRBANKS,
C. D. McVAY.