Nov. 24, 1931. G. L. DAHMS 1,833,355

CHAIR BUCK

Filed Oct. 9, 1929 2 Sheets-Sheet 1

Fig. 1.

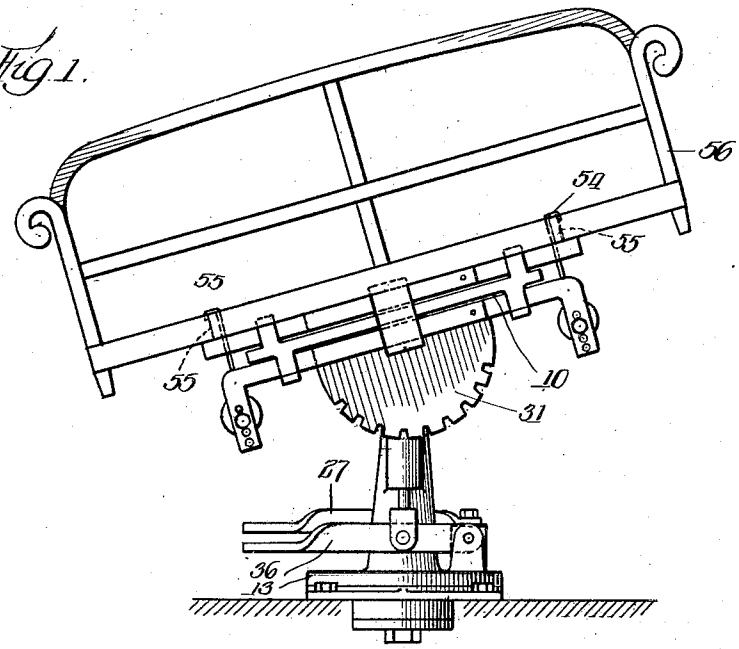
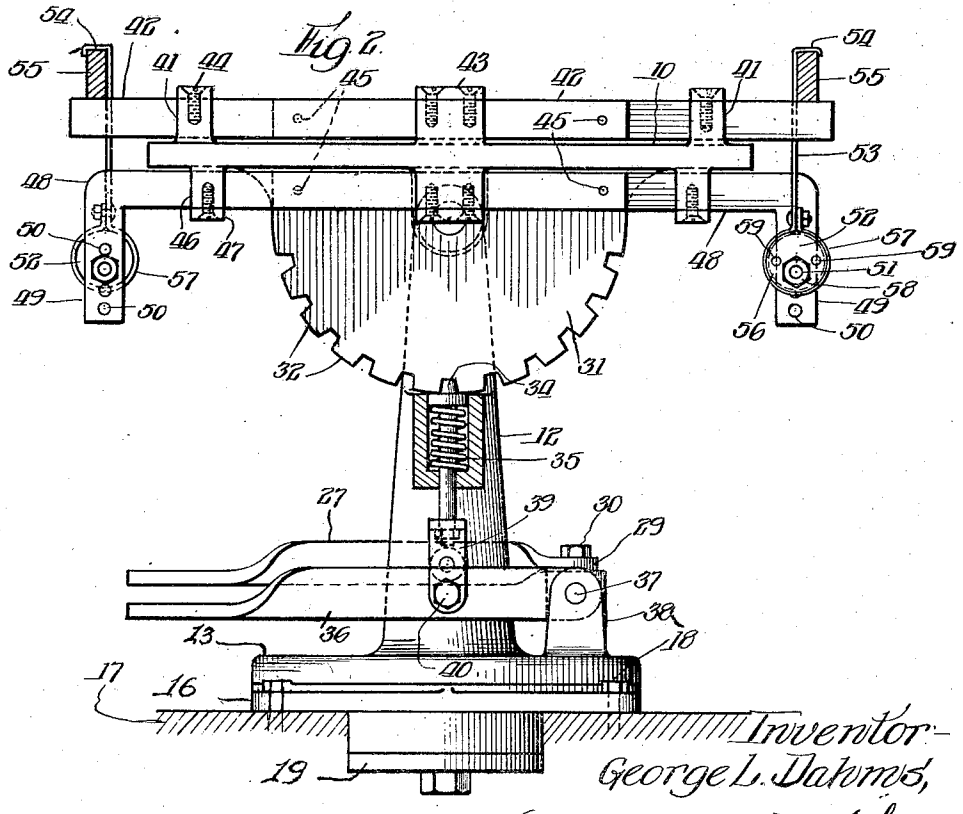


Fig. 2.



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Filed Oct. 9, 1929 2 Sheets-Sheet 2

Fig. 3.

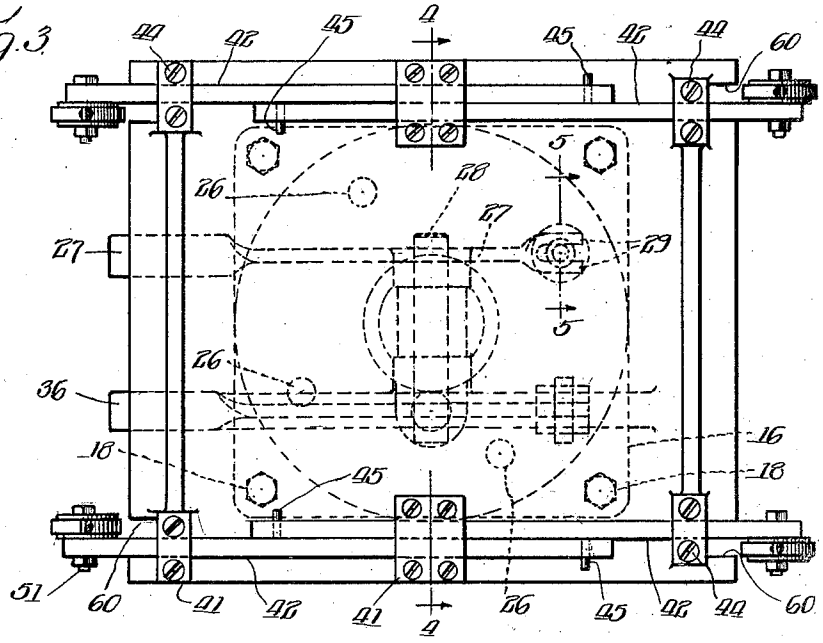


Fig. 4.

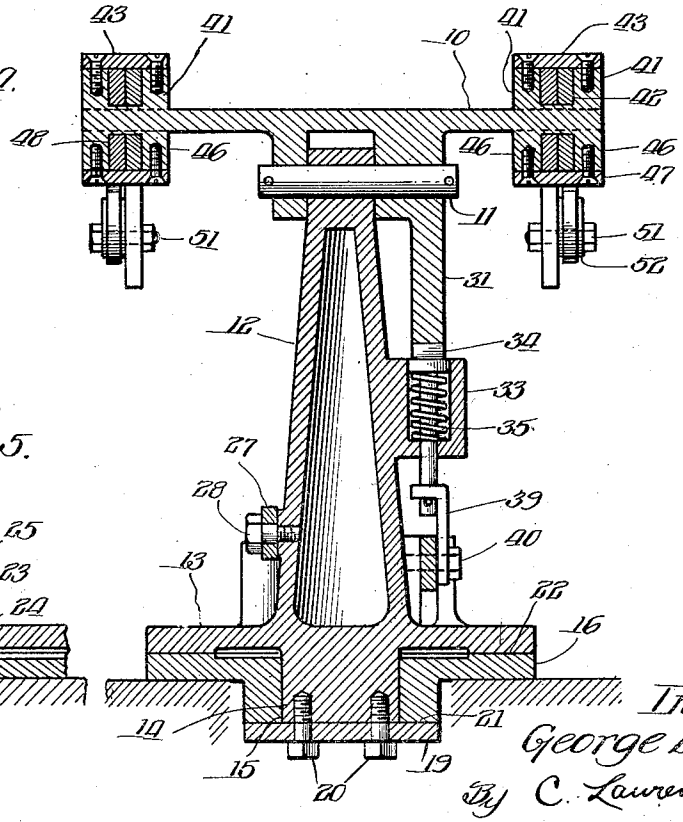
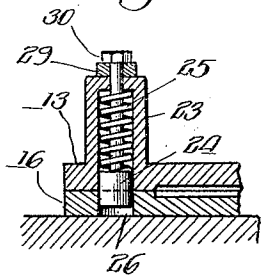


Fig. 5.



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UNITED STATES PATENT OFFICE

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CHAIR BUCK

Application filed October 9, 1929. Serial No. 398,346.

My invention relates to chair bucks and more especially to bucks for the accommodation of furniture during the process of manufacture, in which the furniture piece may be tilted and rotated at various angles to permit of easy accessibility, especially to the under sides.

It is an object of my invention to provide a chair or furniture buck which is simple, practical and inexpensive to manufacture. Another object is to provide a chair buck adapted to hold a chair or furniture piece in various angular positions. Another object is to provide a chair buck by which the furniture piece may be rotated upon an axis. A further object is the provision in a chair buck of improved means for holding and rotating a chair or other piece of furniture and for locking the same in the various positions. A further object is to provide a chair buck adapted to permit working on various sized pieces. Other objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawings, in which

Fig. 1 is a side view of a chair buck embodying my invention, and showing a davenport in place in an inclined position; Fig. 2 is a side view of the chair buck; Fig. 3 is a top view of the same; and Figs. 4 and 5 are sectional views taken along the lines 4—4 and 5—5 of Fig. 3, respectively.

Referring more particularly to the drawings, I show a chair or furniture buck having a table or platform 10 which is rotatable on a shaft 11 in the top of a pedestal 12. Pedestal 12 has a base portion 13 which is preferably circular in form, and a journal portion 14 which extends through the aperture 15 in a base plate 16. Base plate 16 is preferably rectangular in form and is preferably secured to a carriage frame or chassis 17, as by bolts 18. A locking plate 19 is secured by bolts 20 to the journal portion of the pedestal 12 and provides a bearing contact 21 with a portion of base 16. Base 13 and base plate 16 are provided with bearing surfaces as at 22, and the arrangement of the parts is such that pedestal 12 rotates about a vertical axis, but is prevented by locking plate 19 from separating from base 16. Base 13 is provided with an enlargement 23 in which is located a locking pin 24 and a spring 25, under the action of which locking pin 24 is biased downwardly in enlargement 23. A number of apertures 26 are formed in base-plate 16, which apertures are located on a circle of radius equal to that of the radius of pin 24, so that, as pedestal 12 is rotated, locking pin 24 may drop into successive apertures 26 to lock the pedestal in any one of a number of positions. To effect the release of locking pin 24, I have provided a lever 27, secured as by a bolt 28, to the side of pedestal 12, and lever 27 has a forked portion 29 which passes under the head of bolt 30 which is secured to locking pin 24.

A table 10 is provided with a segment 31 integrally associated with it, and segment 31 has a number of locking teeth 32 cut in its circular periphery. A locking arrangement for the segment is provided and consists of a chamber 33 located on the side of pedestal 12 and having within it the locking pin 34 adapted to engage teeth 32, and a spring 35 is located in chamber 33 and tends to keep pin 34 in engagement with the teeth 32. In order to effect the release of pin 34, a lever 36 is provided, which is pivoted at 37 on a bracket 38 and has an engaging link 39 which is pivoted to lever 36 at 40 and which is secured to the lower end of pin 34.

I provide for the support and the securing of the chair or other article of furniture to be worked on by the following arrangement of parts: Table 10 which is preferably of cast iron has a number of upstanding lugs 41 which are arranged in separated pairs and provide guides for supporting slides 42. Holding plates 43 are secured as by screws 44 to the tops of lugs 41 and effectively prevent the removal of slides 42. Slides 42 are arranged in pairs and are provided with stops 45 which limit their movement both inwardly and outwardly. Beneath the table 10 and arranged substantially opposite lugs 41 are lugs 46, provided with cap plates 47 secured by screws similarly to lugs 41, and lugs 47 provide guideways for pairs of clamp slides 48. Slides 48 have their outer

end portions 49 extending downwardly and these ends 49 have a number of holes 50 in one of which is inserted a bolt 51 of the eccentric mounting. Eccentrics 52 are supported on ends 49 by a bolt 51 and these eccentrics 52 each have a clamp 53, and clamps 53 each have a hook portion 54 adapted to engage the member 55 of the chair or furniture piece 56. Eccentrics 52 consist of a cylinder having a peripheral groove 56 in which rests the cylindrical collar portion 57 of clamps 53. Eccentrics 52 have an eccentric axis of rotation 58 which consists of an aperture 58 through which extends a bolt 51. A pair of oppositely disposed radial apertures 59 in eccentrics 52 are provided, and these apertures are adapted for a key by which the eccentrics can be rotated. Table 10 is provided with a number of slots 60 which permit clamps 53 to be admitted for holding a small sized chair or furniture piece.

The operation of the chair buck is as follows: Slides 42 are first withdrawn the required distance and the chair or frame placed on the slides with members 55 of the frame across pairs of slides 42, and slides 48 are withdrawn the corresponding distance. Clamps 53 are then hooked over members 55 and, with the eccentric bolts 51 inserted in the proper apertures 50, the eccentric 52 can be turned and its operation will clamp members 55 firmly to the slides 42. Eccentric bolts 51 being turned past its center will result in a locking action of the clamps.

When it is desired to turn the article about a vertical axis, lever 27 can be pressed, which releases lock-pin 24, releasing the pedestal which can be turned to any desired position. Such position may be a locking position, provided the locking plate 24 is dropped in another aperture 26, or left in a floating position between apertures 26.

In case it is desired to work on the under side of the article, platform 10 can be tilted by pressing lever 36, which will release locking pin 34 from teeth 32 which frees segment 31 and the table and frame can be tilted to any desired angle, such as shown by Fig. 1. It will be understood that changes and modifications may be made in my invention without departing from the true scope thereof, the form shown being illustrative only, and I do not wish to limit my invention to the exact form shown.

Having described my invention, what I claim is:

1. A chair buck having a base plate, an aperture in said base plate, a pedestal having a facing portion adapted to overlie said base plate, a journal portion adapted to engage said aperture, a locking plate on said pedestal having a portion engaging said base plate, a pivotally mounted table on said pedestal, a segment on said table having teeth on the periphery thereof, locking means for said table comprising a bracket on said pedestal, having a locking pin and a spring therefor therein, a lever mounted on said pedestal having a link engaging said locking pin, locking means for said pedestal comprising an enlargement on said pedestal base having a spring-biased locking pin therein, a lever on said pedestal adapted to actuate said pin, a plurality of apertures in said base plate for alignment with said pedestal locking pin, and adjustable supporting and clamping means on said table.

2. A chair buck comprising a base plate having an aperture therein, a pedestal having a facing portion adapted to form a bearing surface with said base plate and a journal portion adapted to engage with said aperture, a plate secured to said pedestal adapted to lock said pedestal in operative engagement with said base plate, means adapted to selectively lock said pedestal in successive positions with respect to said base, a tiltable table pivotally mounted on said pedestal, limiting means for the tilting of said table comprising a segment having peripheral teeth, a retractable locking pin on said pedestal engageable with said teeth, chair or furniture article supporting means on said table comprising a plurality of spaced slides, guideways for said slides, limiting means on said slides, clamping means comprising a plurality of extensible members on said platform or table, hook members, each having an eccentric mounting adjustably secured to said last-mentioned slide members, and limiting means for said slide members.

In testimony whereof I hereunto set my hand.

GEORGE L. DAHMS.