

Oct. 19, 1943.

C. W. HUGHES

2,332,318

BOOK PRESS

Filed May 18, 1942

2 Sheets-Sheet 1

*Fig. 1.*

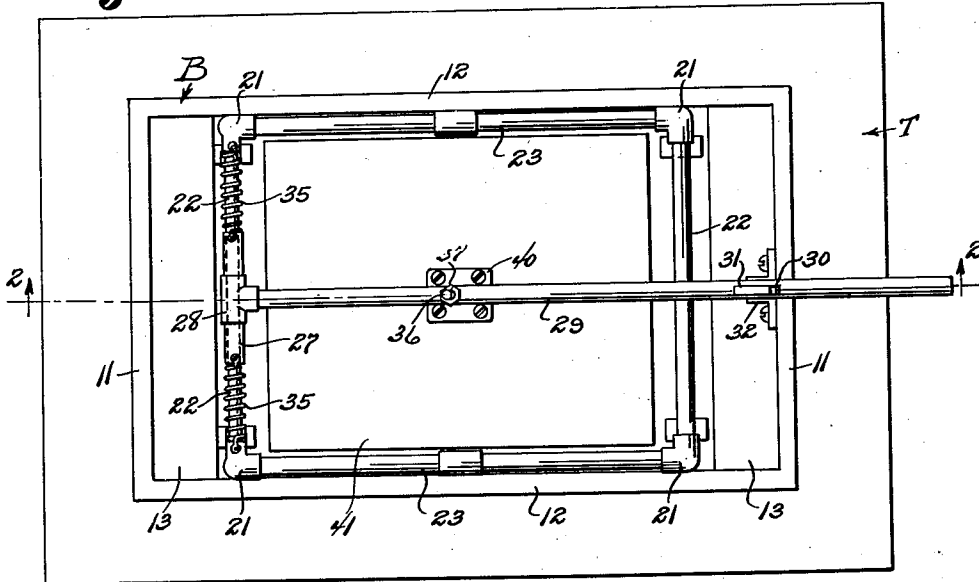
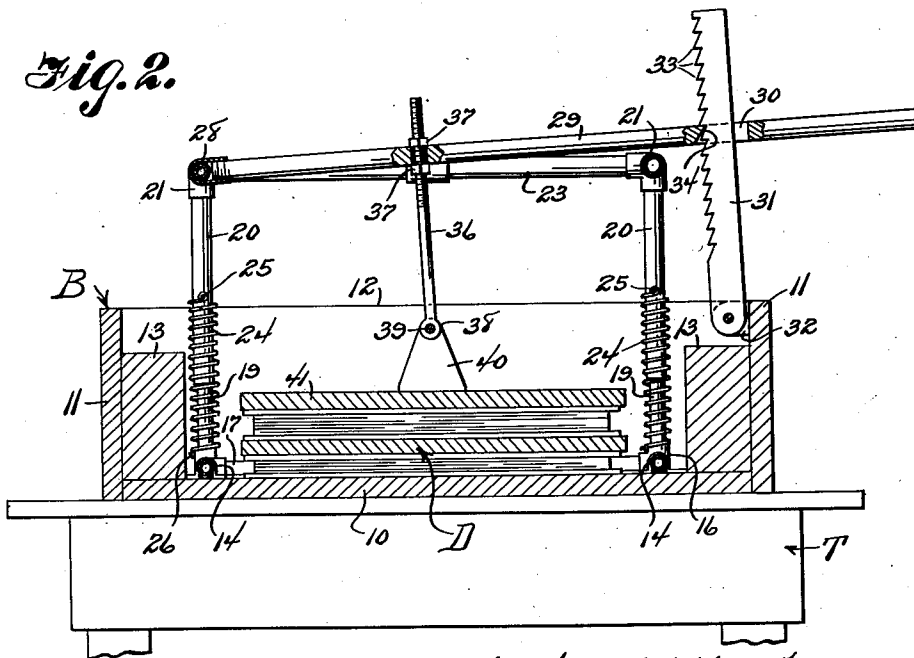


*Fig. 2.*



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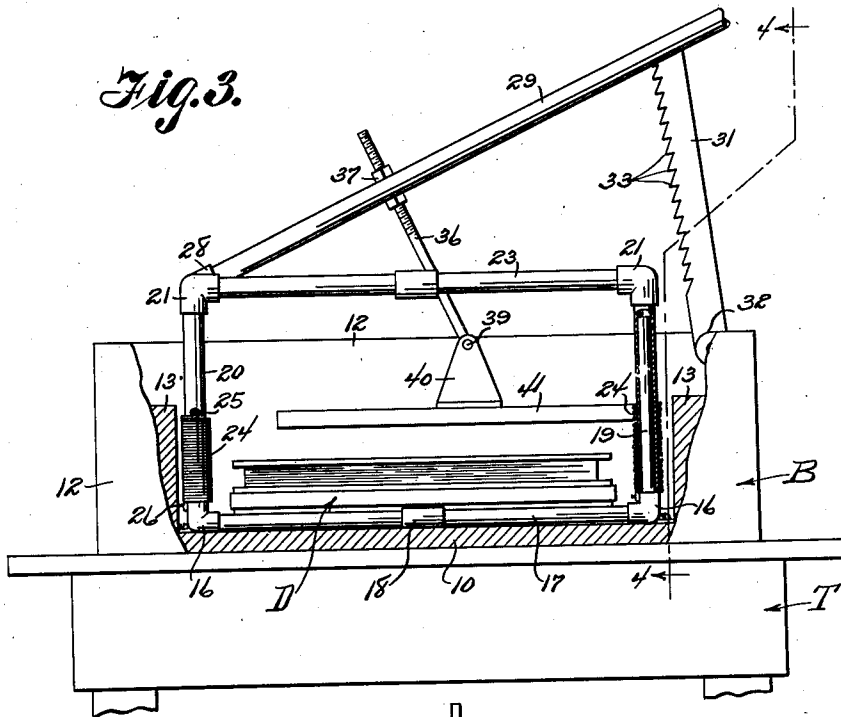


*Fig. 4.*

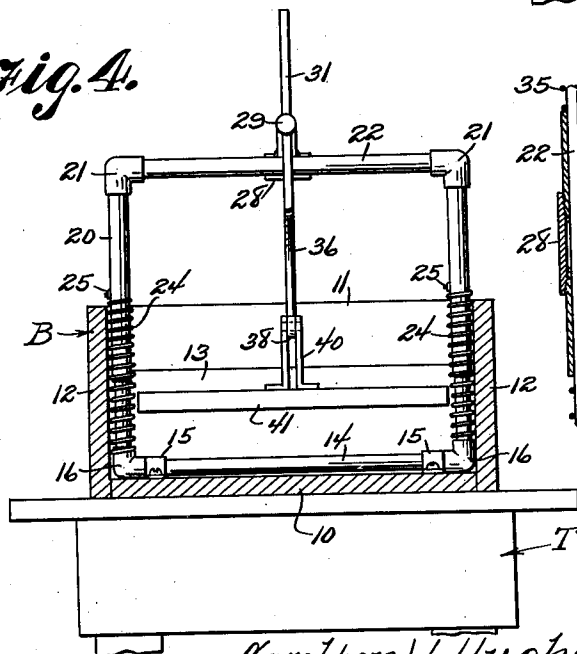
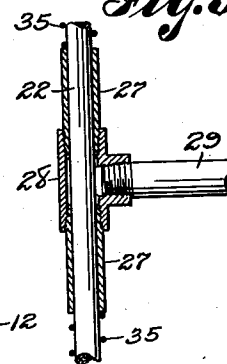


*Fig. 5.*



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## UNITED STATES PATENT OFFICE

2,332,318

BOOKPRESS

Carlton W. Hughes, Fort Worth, Tex.

Application May 18, 1942, Serial No. 443,476

2 Claims. (Cl. 100—67)

The present invention relates to new and useful improvements in book press apparatus.

An object of the invention is to provide book press apparatus of generally improved construction.

Another object of the invention is the provision of a book press which is manually operable for exerting a substantial pressure.

A further object of the invention is to provide a book press which is relatively simple and durable in construction and efficient in use.

Other objects and advantages of the invention will become apparent as the description progresses.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate corresponding parts throughout:

Figure 1 is a top plan view of the improved apparatus,

Figure 2 is a vertical longitudinal section taken on line 2—2 of Figure 1,

Figure 3 is a side elevational view of the press partly broken away to illustrate interior construction,

Figure 4 is a transverse sectional view as viewed from line 4—4 of Figure 3,

Figure 5 is an enlarged fragmentary detail section of the lever pivot structure.

Referring in detail to the drawings, wherein for the purpose of illustration is shown a preferred example of the invention, B designates an open top box shaped base member embodying a bottom 10, vertical end walls 11 and vertical side walls 12 attached to the end and side edges of the bottom. Within each end portion of the base is mounted a transversely extending reinforcing bar 13 fastened to the bottom.

This base member is adapted to be mounted horizontally on the top of a supporting table T or other supporting medium.

In each end of the base B is mounted a transversely extending frame element 14, in the present example a length of pipe, securely fastened on the bottom 10 by U-shaped fastening clamps 15. To the ends of the elements 14 are threadedly connected side outlet elbow fittings 16 having longitudinally extending portions engaging the ends of longitudinal pipe elements 17 each of which may be formed of a pair of complementary parts joined by a union 18. To the upstanding side outlets of the four corner fittings 16 are threadedly connected the lower ends of four vertically disposed corner posts 19. This structure

constitutes the bottom frame section of the apparatus.

Slidably fitted upon each of the upstanding posts 19 is a tubular element 20 having its upper end threaded into the depending side outlet of an elbow fitting 21. To the transversely projecting portions of these fittings are connected the ends of upper transverse elements 22 while to the longitudinally directed outlets thereof are connected the longitudinal elements 23. The elements 20, 21, 22 and 23 constitute the upper movable section of the frame.

About the lower portion of each of the vertical standards is sleeved a coiled tension spring 24 having its upper end fastened to the element 20 by coiling the end portion about a pin 25 thereon and having its lower end attached to a fastening pin 26 secured to the bottom side outlet elbow 16. These springs function to pull the upper frame section downward so as to yieldingly resist elevation thereof.

On one of the upper transverse members 22 is fitted a sleeve 27 mounted to slide axially thereon and to rotate about this element. About the center portion of the sleeve 27 is tightly fitted the straight body portion of a T fitting 28 having threadedly connected to its side outlet the inner end of an operating lever 29 in the form of a rigid bar extending radially from the pivot forming sleeve 27 and provided with a slot 30 adjacent its outer end. Through this slot is slidably extended a flat bar 31 having one end pivotally connected to complementary pivot brackets 32 attached to an end wall of the base and formed along one longitudinal edge with angular teeth 33 designed to engage an angular shoulder 34 formed at one end of the slot 30.

Coiled about the transverse frame element 22 at one end of the frame, at each end of the sleeve 27, is a spring 35 having its outer end fixed to the corner fitting 21 and its inner end attached to the sleeve, as best shown at Figure 1. These springs are designed to exert a torsional effect for yieldingly lifting the handle lever 29 to an upwardly directed position.

Through a transverse bore in the intermediate portion of the lever 29 is extended, perpendicular to the lever, the upper threaded portion of a rod 36 carrying nuts 37 for securing the rod in selectively adjusted position on the lever, as shown to advantage at Figure 2. The lower end of the rod 36 is formed with an eye 38 through which is extended a pivot pin 39 attached to the projecting ends of a pair of complementary angular bracket members 40 fastened to the center

portion of a board 41. As illustrated at Figures 1 and 2, this board may be of elongated rectangular form slightly smaller than the horizontal dimensions of the frame.

To press one or more books, in the course of their construction or repair, on the apparatus, the books are positioned horizontally on the center of the base member B and separated by a divisional board D which may substantially correspond to the presser board 41. The normally raised handle lever 29 is pulled downward to dispose the presser board on the top of the book or books so as to raise the upper skeleton frame section with reference to the lower skeleton section, particularly with reference to the fixed vertical elements 19 thereof. This places the upper section under the tension of the four corner springs 24 so as to exert the suitable pressure upon the books. The push rod 36 is adjusted on the lever 29 in accordance with the thickness or number of books treated at any given time, the rod being shortened when the thickness is increased and lengthened downwardly with reference to the lever when pressing books of decreased thickness. The handle lever is locked in predetermined downward position, when the upper frame section is raised sufficiently to bring the springs 24 under proper tension, by swinging the ratch bar 31 inwardly so that a notch thereof engages the shoulder 34 of the lever to maintain the pressure on the books for a required period of time. The ratch bar is readily released by slight depression of the lever and outward movement of the bar to disengage the shoulder whereupon the movable frame section is automatically drawn to its downward position and the handle lever elevated to an

upwardly inclined position by the torsional springs 36 in readiness for a subsequent pressing operation.

As will be readily apparent the invention provides a simple and durable press which can be quickly and easily operated to effectively press books and like articles of varying size.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

15 Having thus described my invention, I claim:

1. In a press of the character described, a base member, a plurality of vertical guide elements mounted on the base, a frame mounted parallel with the base having tubular elements depending therefrom, the said tubular elements slidably fitted over the said guide elements for vertical movement of the frame, means yieldingly pulling the frame to its downward position, a lever pivotally connected with the frame, and a pressing member fastened to the lever.

25 2. In a book press, a base member, a skeleton frame section fixed to the base, a movable skeleton section slidably associated with the fixed section, spring means yieldably resisting elevation of the movable frame section, a lever pivotally connected with the movable section, a presser board, a rod having its lower end pivotally connected to the said board and its upper end extended transversely through a bore in the lever, and means for adjustably fastening the rod to the lever.

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