E. P. F. THOMPSON.

DEVICE FOR STACKING MAIL MATTER.

APPLICATION FILED SEPT. 29, 1913.

1,094,271. Patented Apr. 21, 1914.

Fig. 1.

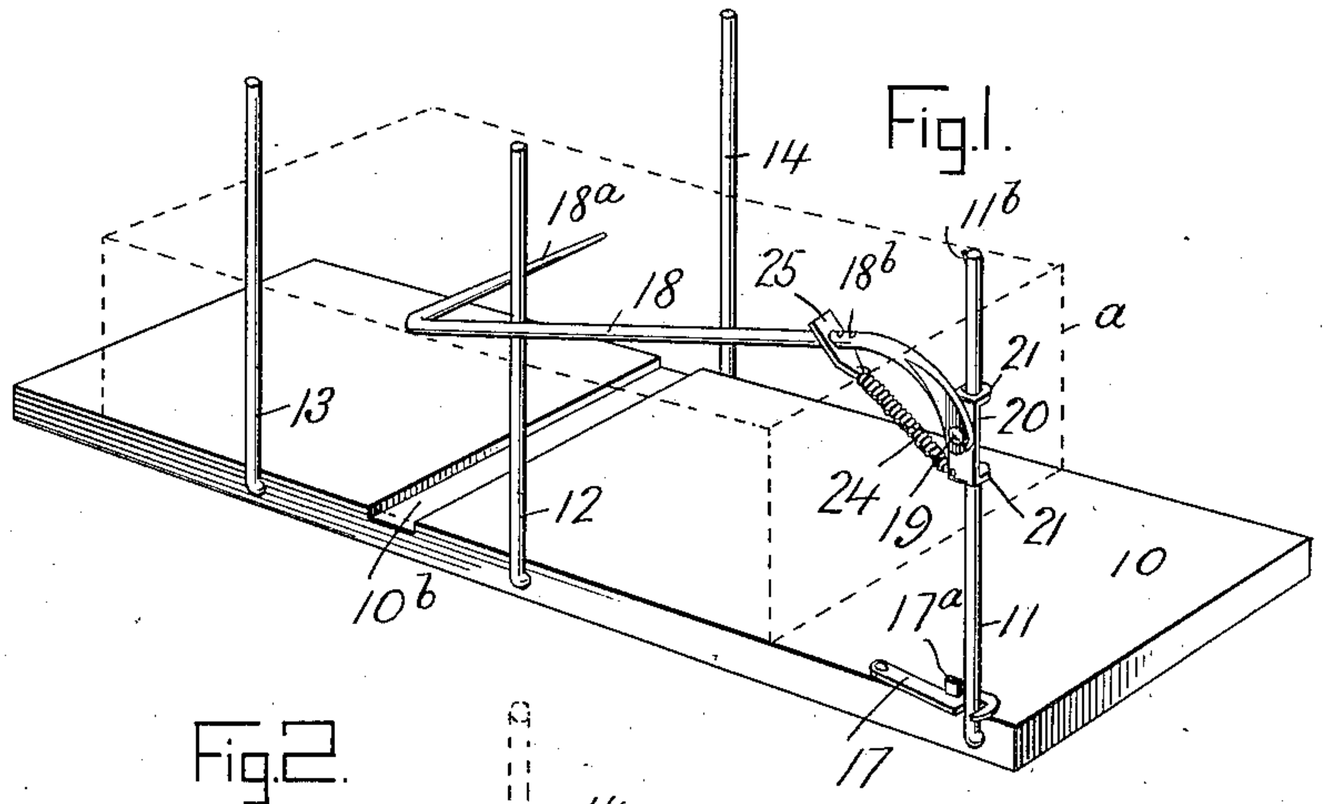


Fig. 2.

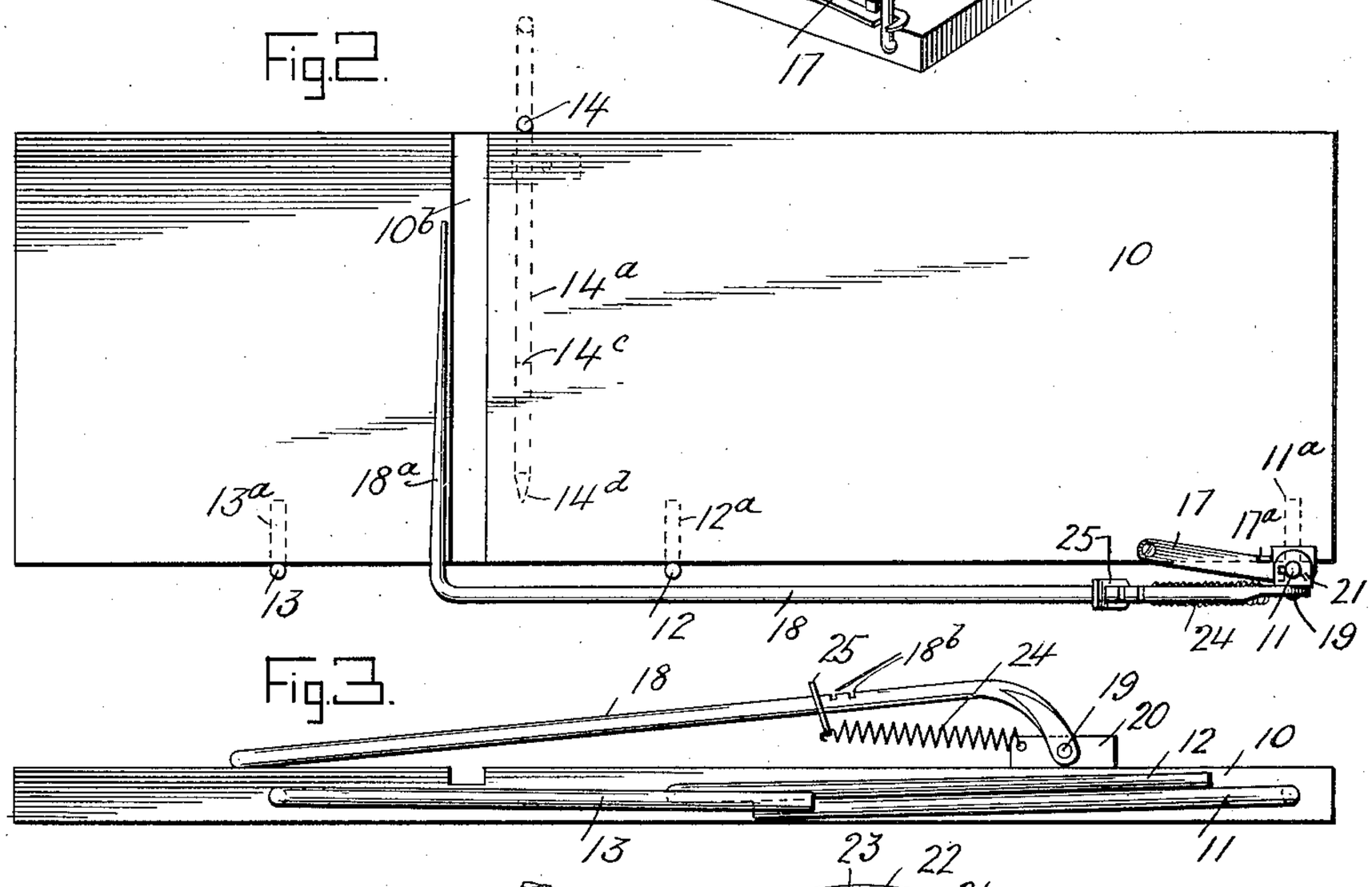


Fig. 3.

Fig. 4.

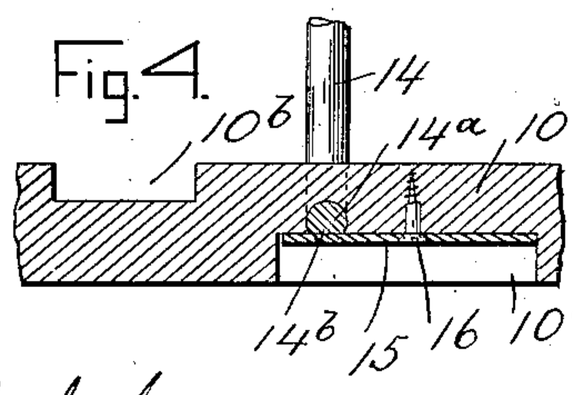
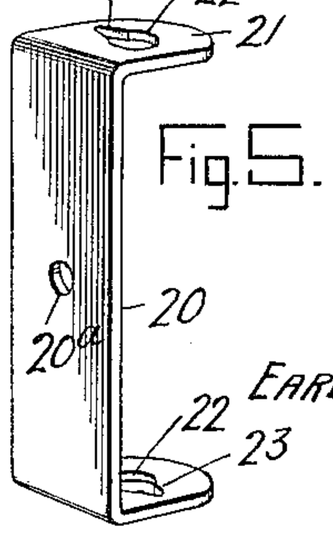


Fig. 5.



WITNESSES

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DEVICE FOR STACKING MAIL-MATTER.

1,094,271. Specification of Letters Patent. Patented Apr. 21, 1914.

Application filed September 29, 1913. Serial No. 792,367.

To all whom it may concern:

Be it known that I, EARL P. F. THOMPSON, a citizen of the United States, and a resident of Troy, in the county of Bell and State of Texas, have invented a new and Improved Device for Stacking Mail-Matter, of which the following is a full, clear, and exact description.

My invention relates to a device for use in stacking letters, circulars, newspapers and other mail matter ready for tying in bundles.

It is a design of my invention to provide an article of the indicated character, simple in construction, efficient in use, and capable of being folded into small compass when not required for use.

The invention will be particularly explained in the specific description following.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a device embodying my invention; Fig. 2 is a plan view; Fig. 3 is a side elevation with parts in knockdown form; Fig. 4 is a detail cross section on a larger scale, hereinafter to be referred to; and Fig. 5 is a perspective view of a bracket for mounting the presser arm forming a part of the device.

In constructing the improved mail-stacking device any suitable base 10 is provided, here shown as a rectangular slab or board. On the base at one side edge is provided one, two or more upright elements constituting back stops against which the articles of mail matter may be placed to aline the same. The stops in the present instance are in the form of standards 11, 12, 13, having inturned ends 11^a, 12^a, 13^a, which are threaded or otherwise snugly held in corresponding recesses in the base, but not sufficiently tight to prevent the standards from being folded downward to the position shown in Fig. 3, or into upright position as in Figs. 1 and 2. At the opposite side a front stop 14 is provided in the form of a standard, the foot 14^a of which is inturned at a right angle, and enters a corresponding transverse hole in the base 10, (see Fig. 4). The under side of the foot 14^a is flattened as at 14^b Fig. 4, there being a shoulder, as indicated at 14^c at the inner end of such flattened portion. The said foot fits slidably, but friction tight in the base 10, and the flat side of the foot, when the standard is upright, is pressed against by a plate spring 15, secured by a screw 16 or the like in a recess 10^a in the under side of the base, the spring serving to normally maintain the standard upright. The standard may be adjusted laterally to an outer or inner position for varying the width of the space between the back stops and the front stop 14. The stop 14 may be rocked to disengage the flat side 14^b from the spring 15 and permit the standard to be entirely withdrawn if desired. The inner end of the foot 14^a is pointed, as at 14^d, to facilitate the entrance of the foot in the base. Means may be provided for holding one or all of the stops in upright position, said means being shown in Figs. 1 and 2 in connection with the standard 11, and may consist of a hook 17 pivoted to the base in position to be turned into engagement with the standard, as shown in Fig. 1, the hook having a lug 17^a or like finger hold.

On the standard 11 or other equivalent upright element, I mount a presser arm 18, having its free end inturned as at 18^a to overlie the base. The said arm is pivoted to a bracket 20, as by a rivet or pin 19 passing through said arm and through a hole 20^a in the bracket. The upper and lower ends of the bracket are bent at right angles and formed with holes 22 to permit the bracket to slidably fit the standard 11. At a side of each hole 22, and complementary thereto, is a notch 23, and these notches, as will be seen from Fig. 5, are out of register, being in different angular positions. On the upper end of the standard 11, at one side, is a projection 11^b corresponding approximately with the recesses 23. The bracket is designed to be passed onto the standard 11 by first so disposing the bracket that its lower notch 23 will register with and pass the projection 11^b. The bracket is then turned on its axis to bring the upper notch 23 in register with the projection 11^b, to permit the upper bent end 21 of the bracket to pass the said projection; thus the bracket cannot accidentally become detached.

The described construction permits the arm 18 to be slid vertically on the standard 11, and to swing laterally thereon, so that the inturned end 18^a will overlie the accumulating mail matter, shown conventionally by dotted lines in Fig. 1 and indicated by the letter *a*. A retractile spring 24 is connected at one end with the bracket 20 and at the other end with the clutch plate 25, loose on

the arm 18. The spring normally tends to press the arm downwardly in the direction of the base, and thereby exert a pressure on the mail matter, the arm being adapted to be rocked on its pivot 19 against the tension of the spring for the insertion of additional mail matter, and being adapted to be swung laterally by reason of the bracket 20 turning on the standard 11, whereby to withdraw the bent end 18[a] from beneath any mail matter placed on top of said bent end. The clutch plate 25 is adapted to engage one of the series of holes 18[b] in the presser arm 18, whereby to vary the tension of the spring 24.

When the device is not in use the several stops 11, 12, 13, 14, can be folded downwardly alongside the edges of the base 10, and the bracket 20 with its presser arm 18, detached from the stop 11 or equivalent support and laid on top of the base 10, as in Fig. 3. In Fig. 3 the catch 17 is omitted.

A groove 10[b] may be formed in the upper side of the base 10 for the user to pass a finger beneath the accumulated mail matter for lifting the same. Or a cord may be laid in said groove and the ends brought up over the bundle of letters or the like to be tied.

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

1. A device of the character described, comprising a base, a stop at one side of the base, and a stop at the opposite side, one of said stops having a foot slidable in the base and adapted to turn therein.

2. A device of the character described, comprising a base, a stop at one side of the base, and a stop at the opposite side one of said stops having a foot slidable in the base and adapted to turn therein, the said foot having a flattened side, and there being a plate spring on the base pressing on said foot, the foot furthermore having a shoulder at the inner end of the flattened portion.

3. In a device of the character described, a base, a presser arm, and an element on the side of the base on which said arm is mounted to swing to a position over the base, or away from the latter, said arm having the free end thereof bent inwardly.

4. In a device of the character described, a base, a standard, a bracket mounted to swing and to slide on the standard, a presser arm pivoted to rock vertically on the bracket, and a spring connected with the bracket and with the arm to exert a downward pull on the arm.

5. In a device of the character described, a base, a standard at the side thereof, a bracket mounted to slide on the standard and to swing laterally thereon, a presser arm pivoted to rock vertically on the bracket, a clutch plate loose on the arm, said arm having a series of notches to engage the clutch plate, and a spring connected at one end with said plate and at the opposite end with the bracket.

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

EARL P. F. THOMPSON.

Witnesses:
C. A. NORWOOD,
L. M. HATCHER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."