Aug. 22, 1939. E. B. HARRY 2,170,301

PADDING RACK

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Fig. 1.

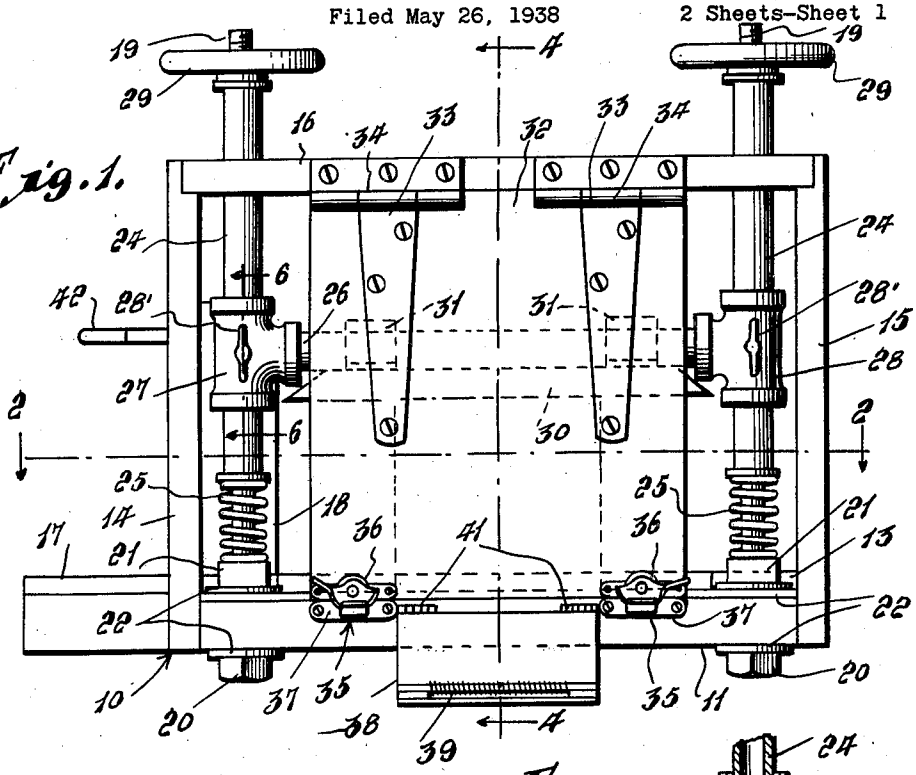


Fig. 6.

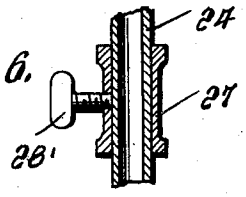
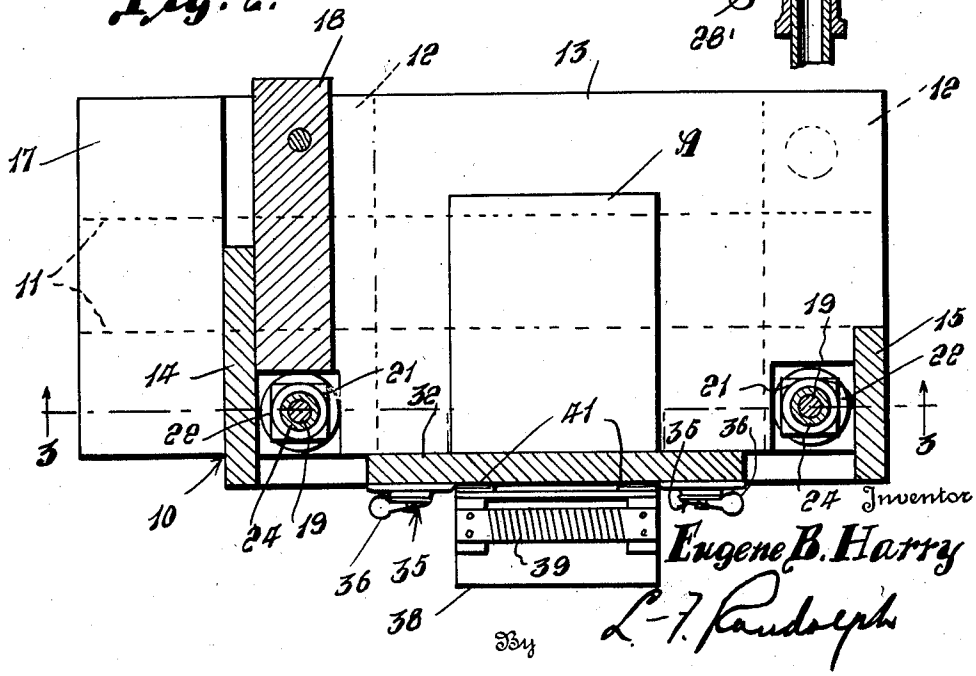


Fig. 2.



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Fig. 3.

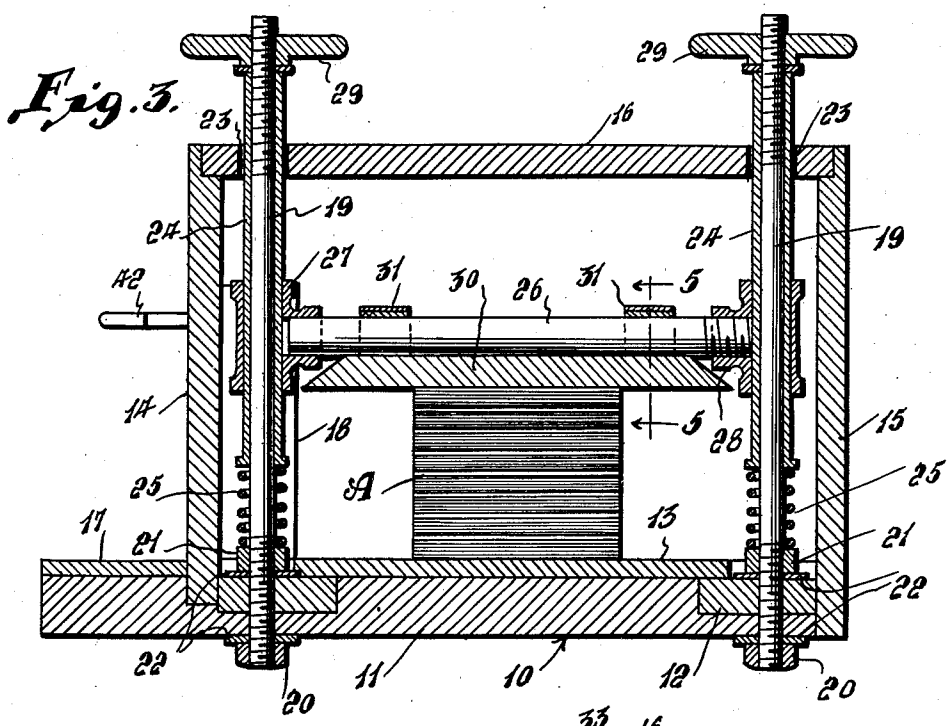


Fig. 4.

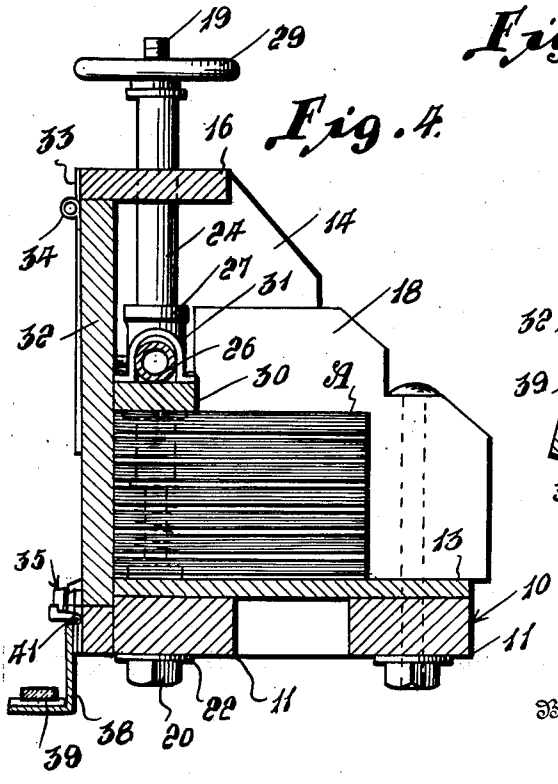


Fig. 7.

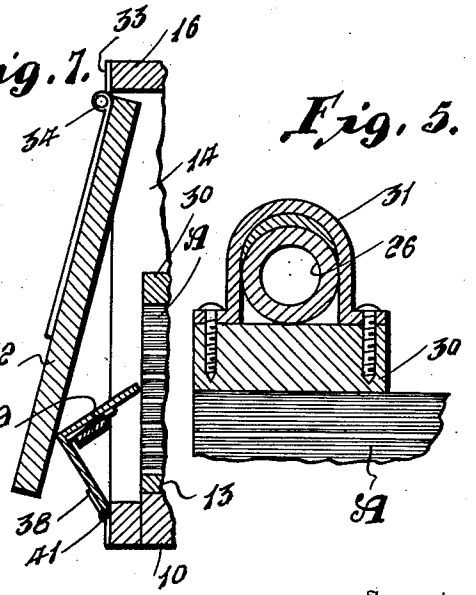


Fig. 5.

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PADDING RACK

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Application May 26, 1938, Serial No. 210,263

3 Claims. (Cl. 11—1)

This invention relates to a padding rack or means for use in positioning a pile of sheets and then clamping them for application of adhesive or binding material to form a pad, tablet or the like.

It is particularly aimed to provide a novel clamping means and also to provide a displaceable jogging means to facilitate the application of the adhesive, cement or the like at the desired time.

The more specific objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawings illustrating an operative embodiment.

In said drawings:

Figure 1 is an elevation of the device;

Figure 2 is a horizontal section taken on the line 2—2 of Figure 1;

Figure 3 is a vertical section taken on the plane of line 3—3 of Figure 2;

Figure 4 is a vertical section taken on the plane of line 4—4 of Figure 1;

Figure 5 is a detail section taken on the line 5—5 of Figure 3,

Figure 6 is a detail section taken on the line 6—6 of Figure 1, and

Figure 7 is a fragmentary section taken on the same plane as Figure 4 but showing the heating means in use.

Referring specifically to the drawings wherein like reference characters designate like or similar parts, the device has a base or platform at 10 made up for instance of four cross elements 11 and 12, in mortised relation. Over which a plywood panel 13 may be fastened. Standards 14 and 15 rise from the base and are connected at the top by a cross member 16. The longitudinal frame members 11 extend beyond the upright 14 and a panel or shelf 17 is secured thereto. On the base 10 and against the upright 14, a jogging wall 18 is fastened.

Said members 11 and 12 are fastened together by vertical rods 19 on which nuts 20 and 21 are threaded, in combination with interposed washers 22, as shown. Said rods extend through openings 23 in the bridge or cross piece 16 and sleeves 24 also pass through said openings 23, surrounding the rods 19 and slidable thereon and resting on cushioning coil springs 25, surrounding the rods 19 with their lower ends resting on the nuts 21.

Said sleeves 24 form part of a clamp which also includes a cross member 26 screw threaded to a coupling 28 and inserted with sliding fit into a coupling 27. Said couplings are slidably adjustable on the sleeves 24 and are secured in adjusted positions by means of screws 28', for instance of the wing type. In order to forcibly lower the clamp means and particularly the cross member 26, nuts 29 are screw threaded to the upper portions of the rods 19 and such nuts may be handwheels, wing nuts or take any other preferred form.

A clamping head 30 is pivotally mounted on the cross member 26 by means of loops or brackets 31.

At the rear of the device, a vertical jogging wall 32 is suspended and pivotally mounted by means of hinges 33 having horizontal axes 34. This jogging member may be secured in vertical position by any desired latch means as at 35 consisting of a lever 36 carried by the wall 32 and co-acting with a keeper 37 carried by the base.

Said jogging wall 32 may hold in place behind it when desired as in Figure 7, an angular bracket 38 carrying a heating element 39, pivoted at 41 on a horizontal axis to the base, the same being adapted for energization from any suitable source of electric supply. It will be realized that the bracket 38 is displaceable so that when it is not desired to use the heater, the wall 32 may be swung upwardly and the bracket then swung downwardly into the position of Figures 1, 2 and 4.

In the use of the device, the piles, pads, tablets or the like as suggested at A are disposed on the base or panel 13, and jogged against the wall 18 and the wall 32, which it will be realized are at right angles to each other, and will effectively align the various sheets or elements. The adjustable cross member is dropped so that the clamp face rests on the pile and is locked in position by means of set screws in the couplings. Thereupon, the members 29 are operated so as to depress the clamping mechanism against the tension of the springs 25, the head 30 directly engaging the pile, pads or tablets A as shown in Figures 3 and 4. Thereafter, the latch means at 35 may be released and wall 32 swung outwardly and the heating pad 39 swung upwardly and disposed between the wall 32 and pile A and the heater 39 energized, so that the heat will facilitate drying or setting of the binding material, adhesive or cement. The edges of the pile when exposed by the wall 32 may be coated with the adhesive or other binding material necessary to secure the pile or piles of sheets together.

A can of the adhesive or cement may be supported on the shelf 17 and a brush for applying it may be suspended from a hook 42 fastened to upright 14 over the shelf 17.

When the pile, pads or the like A are finished, the set screws in the couplings are loosened and a knife blade is forced between the face of the clamp and top of the pile to disengage the clamp from the pile after which members 29 may be loosened, and the springs 25 will thereupon urge the clamping means upwardly to release the pile or members thereof.

Various changes may be resorted to provided they fall within the spirit and scope of the invention.

I claim as my invention:

1. An apparatus of the class described having a base, jogging members on the base, clamping means on the base for material engaged with the jogging members, one of said jogging members being displaceable to permit the application of binding material to a pile, heating means adjacent the displaceable jogging member, and movable bracket means on the base mounting the heating means for displacement and against which the displaceable jogging member is disposable to hold it in operative position.

2. Apparatus of the class described having a base, a frame rising from the base, a jogging wall rising from the base, a jogging wall hinged to the frame, clamping means for material positioned by the jogging members mounted on the base, and rising through the frame comprising rods fastened to the base, sleeves on the rods, clamping head means carried by the sleeves, springs surrounding the rods and on which the sleeves rest, and means operable on the rods to depress the sleeves.

3. Apparatus of the class described having a base, a frame rising from the base, a jogging wall rising from the base, a jogging wall hinged to the frame, clamping means for material positioned by the jogging members mounted on the base, and rising through the frame comprising rods fastened to the base, sleeves on the rods, clamping head means carried by the sleeves, springs surrounding the rods and on which the sleeves rest, means operable on the rods to depress the sleeves, said clamping head means comprising couplings, means to adjust the couplings along the sleeves, a cross member joining the couplings, and a head member suspended from the cross member.

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