No. 628,183. Patented July 4, 1899.

C. T. PAINTER & C. L. KNOEDLER.

PRESS FOR COMPRESSING BILLS, &c.

(No Model.) (Application filed Nov. 17, 1898.)

Fig. 1.

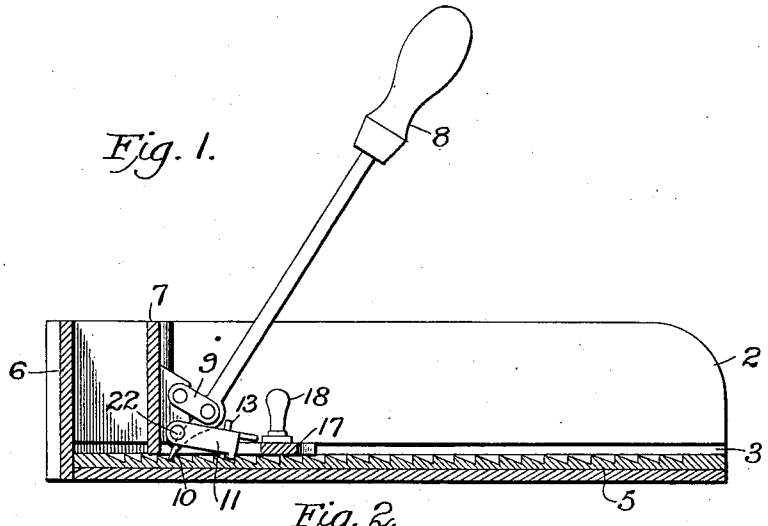


Fig. 2.

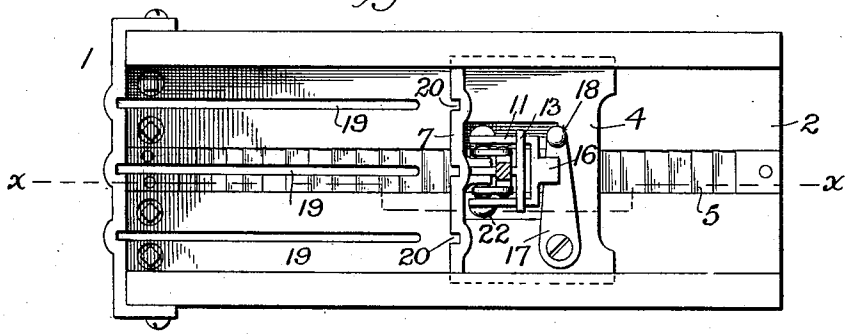


Fig. 3.

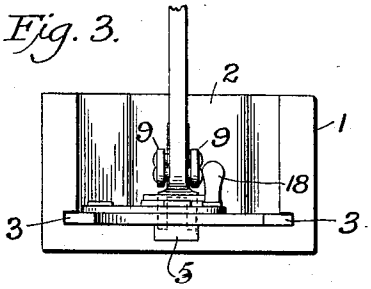


Fig. 4.

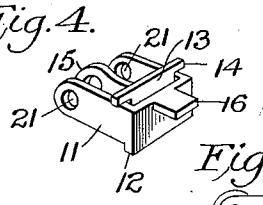
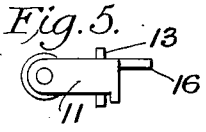


Fig. 5.



WITNESS

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PRESS FOR COMPRESSING BILLS, &c.

SPECIFICATION forming part of Letters Patent No. 628,183, dated July 4, 1899.

Application filed November 17, 1898. Serial No. 696,741. (No model.)

To all whom it may concern:

Be it known that we, CARL THEODORE PAINTER and CHARLES LOUIS KNOEDLER, citizens of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Bill-Compressing Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference to certain novel and improved means for compressing bank-notes or bills and other similar articles into packages for the more convenient handling of said notes, the object being to furnish an efficient and inexpensive little machine primarily adapted for use in banks and counting-rooms; and our invention consequently consists, essentially, in the construction, arrangement, and combination of parts, substantially as will be hereinafter more fully described and claimed.

In the annexed drawings, illustrating our invention, Figure 1 is a longitudinal section on the line *x x* of Fig. 2. Fig. 2 is a top plan view of our improved bill-compressor. Fig. 3 is a right-hand end elevation. Fig. 4 is an enlarged detail perspective view of the retaining dogs or pawls. Fig. 5 is a side view of the same.

Like numerals of reference designate like parts throughout all the different figures.

The frame of our machine consists of a rectangularly-shaped box 1, having a bottom, two parallel vertical sides, and an end 6, the opposite end, as also the top, being preferably open, as shown, and the open compartment 2 being thus provided. Within the frame 1 is a sliding follower or compressor 7, which is parallel to the end 6, toward which it is adapted to advance or from which it may recede, the bills, notes, or other compressible articles being placed between the stationary end 6 and the movable follower 7. The said follower 7 is securely fastened to a horizontal plate 4, which slides upon the surface of the bottom of the compartment 2, the edges of said plate 4 entering and engaging the lateral guides or grooves 3 3. The said surface of the bottom of the compartment 2 is provided with a median longitudinal ratchet-bar 5, and the follower 7 and plate 4 work over it.

8 indicates an operating-lever handle having at its lower end a pointed tooth or prong 10, which engages the teeth of the ratchet 5 in such a manner that by the manipulation of handle 8 the follower 7 may be fed forward in consequence of the tooth-by-tooth advance of the pointed prong 10, said tooth or prong being preferably forked. The lever 8 is pivotally connected to the follower 7 by means of the links 9 9, that are pivoted to lever 8 and also to the follower 7. Thus lever 8 may be lifted, so as to allow the tooth 10 to be raised clear of the ratchet-bar 5; but when said tooth is in engagement with the ratchet-bar the lever can be oscillated and through the links 9 9 made to exert a pressure on the follower 7, as already suggested.

Pivotally attached to the follower 7 at a point below the links 9 9 is a dog or pawl 11, consisting of a substantially square or rectangular casting, whose sides are perforated at 21 21 to permit the passage therethrough of the pivot-bolt 22, on which the dog 11 is hung. Said dog has a flange 12 on its front edge, which is adapted and intended to engage the teeth of the ratchet-bar 5, and it has also a front lug 16, which serves as a handle by which to lift it.

13 designates a supplemental dog, which is adapted to engage the teeth of ratchet 5 in advance of the dog 11, said dog or pawl 13 being a take-up dog for the purpose of enabling an engagement to be made with the ratchet 5 when the compression has proceeded so far that an advance of another full tooth cannot be made, although a further compression for the distance of a portion of a tooth may possibly be made. The dog 13 works within the casting of dog 11 and has side ears 14, that rest on the upper edges of the sides of casting 11, and a rearward perforated extension 15, through which passes the above-mentioned bolt 22, on which this dog 13 is hung in like manner with the dog 11. The extension 15 is straddled by the forked prong 10 of the lever 8.

In the bottom of the box or frame 1 are several slots 19 for the passage of cords or twine

for tying up the bundles of notes. The compressing-face of the follower 7 is also provided with grooves 20 for the reception of the binding-cords. A needle and string may thus easily be passed through the bottom of the machine and around the bills and notes while the latter are in a state of compression.

17 denotes a horizontally-shiftable spring designed to pass under the lug 16 of the dog 11 and hold the same disengaged from the ratchet-bar 5. This spring device 17 is pivotal at one end and has a handle 18 at the other.

What we claim is—

1. In a device of the character described, a frame or receptacle, a ratchet-bar in the bottom of the same, there being grooves formed in the sides of the frame, a plate working within said grooves, a follower connected with said plate, a lever adapted to engage the ratchet-bar and operate the follower, a dog to hold the follower when operated, and a supplemental dog located and working within and in advance of the first-mentioned dog.

2. In a compressing device, the combination with the box thereof having grooves formed in its sides, of a plate working within said grooves, a compressor connected with said plate, a lever pivotally connected with and adapted to operate the follower, dogs to lock the follower when operated, a supplemental dog located and working within and in advance of the first-mentioned dog, there being slots formed in the bottom of the box for the passage of cord or the like, and corresponding recesses formed in the face of the follower, for the purpose of permitting binding of the material when in its compressed condition.

3. In a compressing device, the combination with the receptacle thereof having grooves formed in the sides of the same, of a plate working within said grooves, a follower connected with the plate, a ratchet-bar in the bottom of the receptacle, a lever adapted to engage the bar and operate the follower, dogs pivotally connected with the follower and adapted to lock the same, there being slots formed in the bottom of the receptacle, and grooves formed in the face of the follower in line with the slots, and a horizontally-shiftable spring adapted to hold the dogs disengaged, when desired.

In testimony whereof we affix our signatures in presence of two witnesses.

CARL THEODORE PAINTER.
CHARLES LOUIS KNOEDLER.

Witnesses:
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