Nov. 14, 1939. W. H. DAVIS 2,180,037

STAMPING MACHINE

Filed Aug. 19, 1938

Fig. 1.

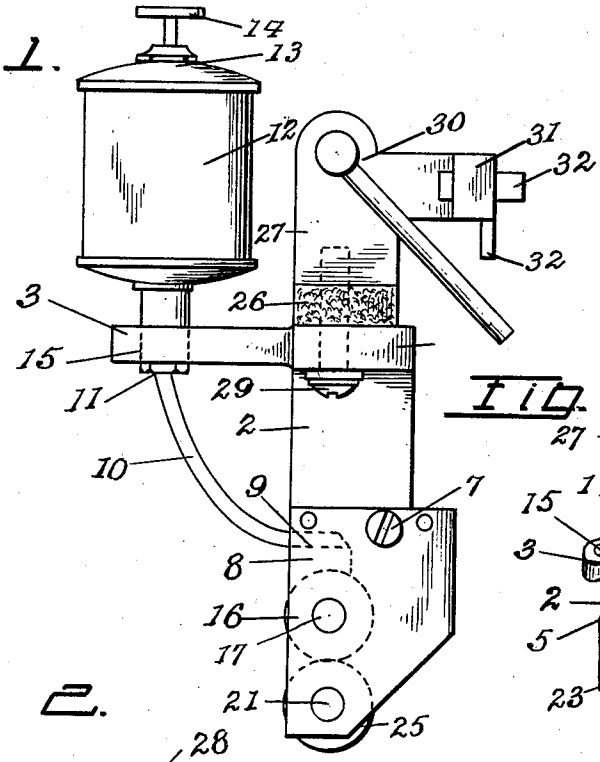


Fig. 5.

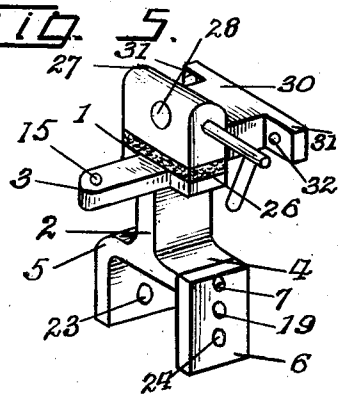


Fig. 2.

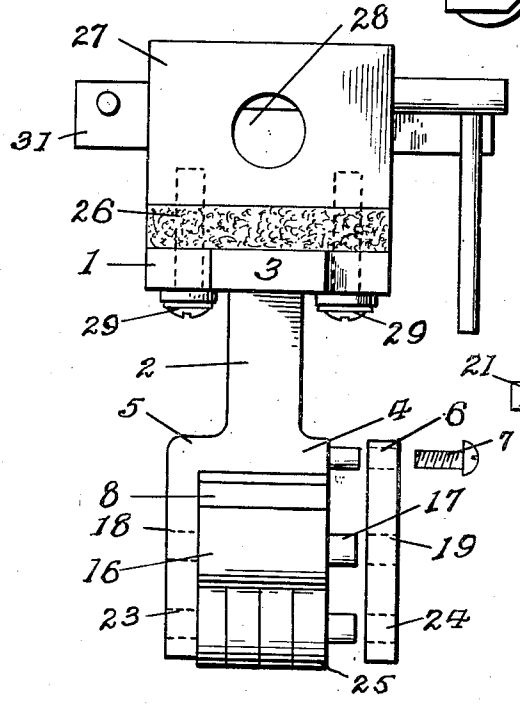


Fig. 3.

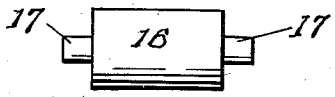
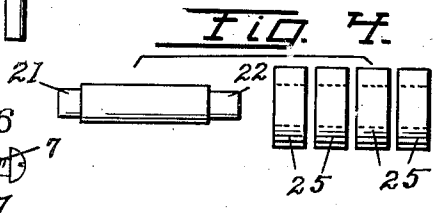


Fig. 4.



Inventor

William H. Davis

By

Attorney

Patented Nov. 14, 1939

2,180,037

UNITED STATES PATENT OFFICE

2,180,037

STAMPING MACHINE

William H. Davis, Austin, Tex.

Application August 19, 1938, Serial No. 225,830

1 Claim. (Cl. 101—330)

This invention is directed to a stamping machine designed particularly for use in connection with sorting machines and to work automatically in connection therewith for successive stamping of the checks or other products of the sorting machine.

The primary object of the present invention is the production of a stamping machine made up in simple form and constructed to be conveniently connected to or removed from the sorting machine, with the stamping machine including an integral structure for supporting the parts in which provision is made for convenient separation of the dating or numbering disks to facilitate their change at will.

The invention is illustrated in the accompanying drawing, in which:

Figure 1 is a side view of the improved stamping machine.

Figure 2 is a front elevation of the same.

Figure 3 is an elevation of the inking roll.

Figure 4 is an elevation of the numbering or dating disks and their supporting shafts shown in separated relation.

Figure 5 is a perspective view of the frame of the stamping machine shown on a reduced scale.

The improved stamping machine comprises an integral frame formed at the upper end as a plate 1 of appropriate size from which depends a neck portion 2 which is of the full length of the plate but of materially less width than the plate. An arm 3 extends forwardly from the central portion of the forward edge of the plate, said arm being in the plane of the plate but of materially reduced width.

The integral frame at the lower end of the neck is connected to a plate section 4 corresponding substantially in dimensions with the plate 1, from one edge of which plate section 4 depends a supporting plate 5 with the opposite edge of the plate section 4 supporting a removable plate 6 designed to be removably secured to the plate section 4 by a set-screw 7. The integral supporting plate 5 and the removable plate 6 define below the plate section 4 an open area in which the operating parts of the stamping machine are arranged, as will be clear from Figure 5.

In the upper end of the area defined by the supporting plate 5 and removable plate 6 and immediately below the plate section 4 is arranged a fibrous inking disk 8 over which lies an outlet 9 of a conduit 10, which conduit extends outwardly beyond the integral frame and is connected to the delivery end 11 of an ink fountain 12 having the usual removable cover 13 and feeding means 14. The outlet end 11 of the ink fountain is supported in an opening 15 at the end of the arm 3, so that the fountain is always accessible for convenient refilling, inspection and operation.

An ink-applying roll 16 of conventional character has projecting axle terminals 17, one end of which seats in an opening 18 in the supporting plate 5 and the other end of which is designed to seat in an opening 19 in the removable plate 6.

A numbering wheel shaft 20 has reduced terminals 21 and 22, the former of which seats in an opening 23 in the supporting plate 5 and the latter of which is designed to seat in an opening 24 in the removable plate 6. Disks 25 are mounted upon the enlarged portion of the numbering wheel shaft 20 and when the parts are applied in operative positions, these numbering wheels are held between the supporting plate 5 and the removable plate 6 for proper operation.

Secured upon the upper surface of the plate 1 of the integral frame formation is a resilient washer-like element 26 over which lies a clamping plate 27 formed with an opening 28 to receive an appropriate part of the clamping machine, set-screws 29 passing upwardly through the plate 1 of the frame engaging the clamping plate to secure the parts as a unit. The clamping plate is further provided with a rearwardly extending section 30 having lateral terminals 31 from which project positioning studs 32 for cooperation with appropriate parts of the sorting machine.

In use, with the device applied to the sorting machine, ink is fed from the ink fountain 12 and distributed by the pad 8 to the inking roll 16 and applied from the latter to the numbering rolls for the appropriate stamping operation.

An important feature of the present invention is the simplicity by which the operating parts may be readily interchanged, renewed or withdrawn at will. Thus, through the simple removal of the set-screw 7, the removable plate 6 may be moved outwardly from the integral frame, whereupon the inking roll 16 and the date wheel shaft 20 with the dating disks 25 may be bodily removed and interchanged or replaced with others in accordance with the particular purposes for which the stamping machine may at that time be designed.

The dating wheels are preferably of rubber and are, of course, designed to be provided with any desired characters which may be serviceable in the particular instance.

The dating disk shaft 20 is of reduced diameter in the portions interfitting in the supporting

plate 5 and removable plate 6, thus causing the enlarged portions of the shaft to bear snugly against the supporting plate and removable plate which maintains perfect alignment at all times and under all conditions of operation.

The stamping machine is designed particularly for use in connection with sorting machines which are ordinarily of rapid operation, handling anywhere from 250 to 900 checks or the like per minute, each of which is appropriately stamped by the improved stamping machine.

It is to be noted that the parts subjected to strain are integral and thus of great strength and that the only movable part of such frame is the removable plate 6 which, when in position, forms substantially a rigid and immovable element to maintain the numbering or dating disks in properly aligned position at all times.

What is claimed to be new is:

A stamping machine for use in connection with sorting machines, comprising an integral frame having an upper plate, an arm projecting in the plane of and outwardly from the plate, an ink fountain removably supported by said arm, a neck depending from the upper plate, a lower plate at the lower end of the neck, an integral supporting plate depending from one end of the lower plate, a removable plate corresponding to the supporting plate and having an opening in its upper portion to engage a threaded boss projecting from the lower plate, an inking pad in communication with the ink fountain and rotatably mounted at one end in the integral supporting plate and removably mounted at the opposite end in the removable plate, an inking roll to receive ink from the pad mounted at one end in the integral supporting plate and at the opposite end in the removable plate, a plurality of numbering disks to be inked by the inking roll, the shaft for supporting the disks removably mounted in the integral supporting plate and in the removable plate, and a single screw passed through the removable plate and taking into the threaded boss of the lower plate for fixing the removable plate and thereby the bearings of the inking pad and shaft of the numbering disks in relative positions while permitting their complete removal for change or repair through the removal of a single screw.

WILLIAM H. DAVIS.