C. P. SPEES.

CHECK PERFORATOR.

APPLICATION FILED MAR. 27, 1916. RENEWED SEPT. 13, 1917.

1 303,124. Patented May 6, 1919.

Fig. 1

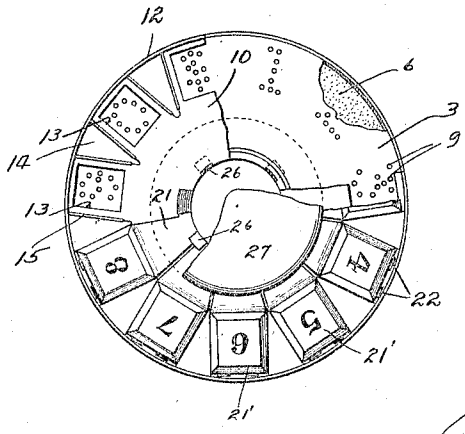


Fig. 4

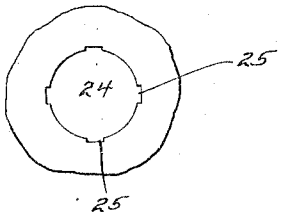


Fig. 5

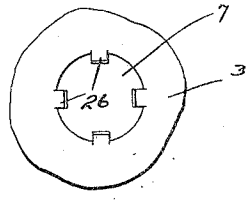


Fig. 2

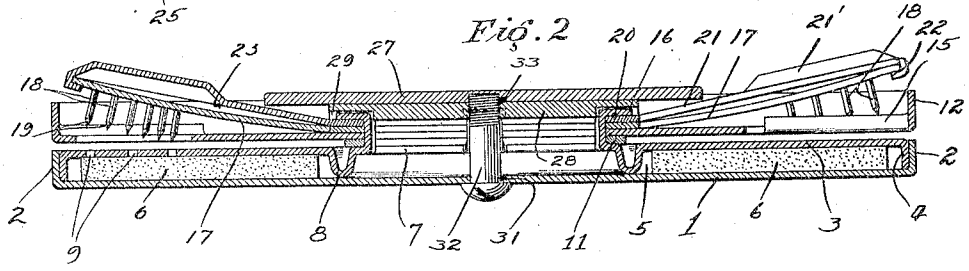
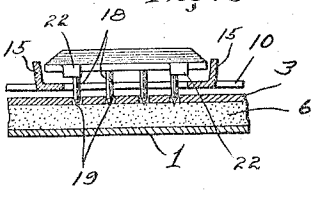


Fig. 3



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CHECK-PERFORATOR.

1,303,124. Specification of Letters Patent. Patented May 6, 1919.

Application filed March 27, 1916, Serial No. 86,277. Renewed September 18, 1917. Serial No. 191,810.

To all whom it may concern:

Be it known that I, CHARLES P. SPEES, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Check-Perforators, of which the following is a specification.

This invention relates to improvements in check perforators and more particularly to a small, light and inexpensive device of this character.

The principal object of my invention is to form a device of this character, such that substantially all the parts are capable of being formed on a punch press.

Still another object of my invention is to so arrange the parts that they are quickly and positively assembled in their proper relative position.

A further object of my invention is to provide an improved stripper plate, which is more rigid than those heretofore used.

Still a further object of my invention is to provide an improved form of spring, by which the various punch members are withdrawn from the paper.

With these and other objects in view my invention consists in the novel construction, combination and arrangement of parts herein illustrated and more specifically pointed out in the appended claims.

Reference being had to the accompanying drawing forming a part of this specification,

Figure 1 is a view in plan of my improved perforator having certain parts therof broken away to disclose the under mechanism.

Fig. 2 is an enlarged view in section through the improved perforator.

Fig. 3 is a fragmentary detail view in section, showing the manner of shifting the stripper plate.

Fig. 4 is a view in plan of the central portion of either the spring plate, the punch plate or the stripper plate.

Fig. 5 is a view in plan of the central portion of the die plate.

Denoting corresponding parts in the several views by the same numerals of reference, 1 is the base plate, having the upturned annular flange 2, and 3 is the die plate having the downwardly extending flange 4, of substantially the same depth as the flange 2. Plate 3 is of smaller diameter than plate 1 so that in assembling flange 4 fits within flange 2, and there is thus provided a space 5 between the two plates, in which is held an absorbent pad 6 adapted to be saturated with an indelible ink compound. The plate 3 is provided with a central opening 7 and adjacent thereto is formed an annular rib 8 to space the central portion of the die plate from the base plate, and thus prevent the springing together of the two plates when the device is assembled. The die plate is provided with small holes 9, which outline the figures zero to nine inclusive, the dollar sign or any other character which may be desired.

Above the die plate 3 is a stripper plate 10 spaced apart from the die plate by means of the washer 11. This stripper plate is provided with an annular upturned rim 12 around its outer edge and rectangular openings 13, which are of sufficient size as to embrace with their outlines any of the various figures formed by perforations 9.

There is thus formed between the various rectangular openings 13, segmental spaces 14, around which is formed a rib 15, this rim being adapted to stiffen the stripper plate in radial direction. Above the stripper plate is mounted a punch plate 16 formed of a plurality of arms 17. In the ends of these arms are provided pins 18, which pins outline the characters corresponding to those in the die plate 3, and which pins aline with openings 9 when the two plates are in their assembled position. These pins are preferably formed with a conical point 19 so that in passing through the paper the latter is not cut away, but is rather torn and left in position. Above the punch plate is provided a spring plate 20 having arms 21 corresponding in number to those of the punch plate, and each arm has formed on its outer end the recessed cap 21'. On the outer end of the latter are formed clips 22, which are adapted to be turned over the outer end of the arms of the punch plate.

It will be noted that in assembling the punch plate and the spring plate, that the arms 17 are a trifle longer than the spring arms. Also that the edge 23 of the cap contacts with the punch arm when the former is depressed and the tendency is to buckle the punch arm, whereby the buckling action

in addition to the action of the spring arms tends to withdraw the punch from the article being perforated.

The stripper plate, punch plate, and spring plate, are each provided around the edge of the central opening 24 with a plurality of notches 25. These notches are so arranged that when placed in alinement the various parts assume their proper relative position. The central opening 7 of the die plate is provided with a corresponding number of tongues 26, which tongues are adapted to enter the recesses just described. These tongues in like manner are so positioned that when assembled the punch member alines with the corresponding die member, the tongues being folded over the upper part of the spring plate, thus holding all these parts in assembled position. Over the spring plate is provided a disk 27 having the central lug 28, the diameter of which is that of the central opening 24. This plug is provided with notches 29 into which the turned over portions of tongues 24 are adapted to seat. The base plate 1 has a central hole 31, and 32 denotes the screw by which the entire device is assembled.

Thus the die plate, stripper plate, punch plate and spring plate are all assembled in their proper relative position by means of the tongues 26. This group of members is then placed on the base plate with the absorbent pad 3 therebetween. The disk 27 is then positioned over the spring plate and by means of the screw 32 passing upwardly through the base plate into the threaded hole 30, all parts are held in assembled relation. The heads of the spring arms are provided with embossed characters corresponding to the characters carried by these punch arms associated therewith.

In use, the check or other instrument to be protected, is inserted in the space between the stripper plate and the punch plate and the character which it is wished to impress therein is depressed, causing the pins 18 to pass through the paper into the absorbent pad 6. Here they take up a quantity of the ink and as they are withdrawn through the paper this ink is absorbed by the ragged edges of the paper. I am aware that check protectors of this character have been used heretofore, but I only claim and wish to cover those specific improvements which are more particularly pointed out in the appended claims.

I claim as new and wish to cover by Letters Patent:

1. A device of the character described comprising a base plate, a die plate held in spaced relation thereto, a stripper plate held apart from said punch plate, an upturned annular rim formed on said stripper plate, a punch plate having radially extending arms, a spring plate having radially extending arms, clips on the end of the arms of said spring plate engaging the arm of said punch plate, the arms of said punch plate being longer than the arms of said spring plate, an integrally formed cap on the outer ends of said spring plate arms and means for holding said die plate, said punch plate and said spring plate in the proper assembled position on said base plate.

2. A device of the character described comprising a base plate, a die plate held in spaced relation thereto, a stripper plate spaced apart from said die plate, a punch plate mounted on said stripper plate, a spring plate on said punch plate, said stripper plate, punch plate and spring plate having a central opening, said openings having notches adapted to aline when the said plates are in their proper assembled position, said die plate having a central opening, fingers formed around said opening adapted to be bent into said notches to secure said plates in assembled relation, and means for securing said assembled plates to said base plate.

3. A check perforator comprising a base plate, a die plate, said base plate and said die plate having complemental means for maintaining them in spaced relation, said die plate having openings positioned to outline the desired characters, a stripper plate, a punch plate having a plurality of arms provided with perforating members supported to register with the character openings in the die plate, and means for buckling the arms of the punch plate to impart resilience thereto, whereby the perforating members are normally withdrawn from the openings in the punch plate.

4. A check perforator comprising a base plate, a die plate, said plates having complemental means for maintaining them in spaced relation, said die plate having openings positioned to outline the desired characters, a stripper plate, a punch plate having a plurality of arms provided with perforating members positioned to register with the character openings in the die plate, arms superposed on said punch plate and having means for buckling the arms of said punch plate to impart resilience thereto, whereby the perforating members are normally withdrawn from the openings in the punch plate, and means for holding all of said plates in assembled relation.

5. A check perforator comprising a base plate, a die plate held in spaced relation thereto, a stripper plate held apart from said punch plate, an upturned annular rim formed on the stripper plate, said stripper plate having rectangular openings formed adjacent said rim and segmental openings between the rectangular openings, ribs formed around said segmental openings, a punch plate having radial arms, and a spring plate having means for buckling said arms

to impart resilience thereto, whereby they are normally withdrawn from the punch plate.

6. A check perforator comprising a base plate, a die plate held in spaced relation thereto, a stripper plate spaced from the punch plate and provided with an upturned annular rim and radial ribs, a punch plate having radial arms, and a spring plate having means for buckling said arms to impart resilience thereto, whereby they are normally withdrawn from the punch plate.

In testimony whereof I affix my signature.

CHARLES P. SPEES.