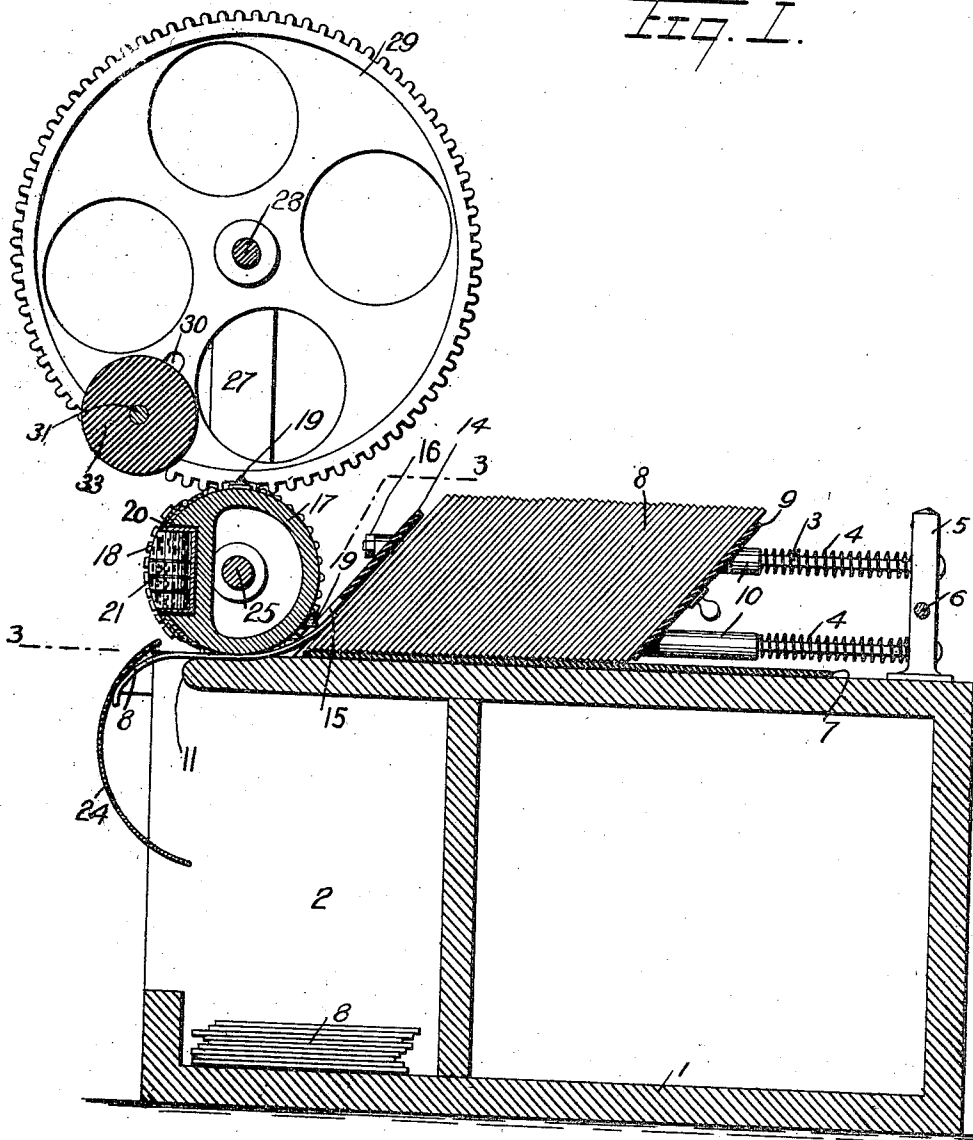


J. DE C. HALL.
 PRINTING MACHINE.
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1,086,167.

Patented Feb. 3, 1914.
 3 SHEETS—SHEET 1.

Fig. I.



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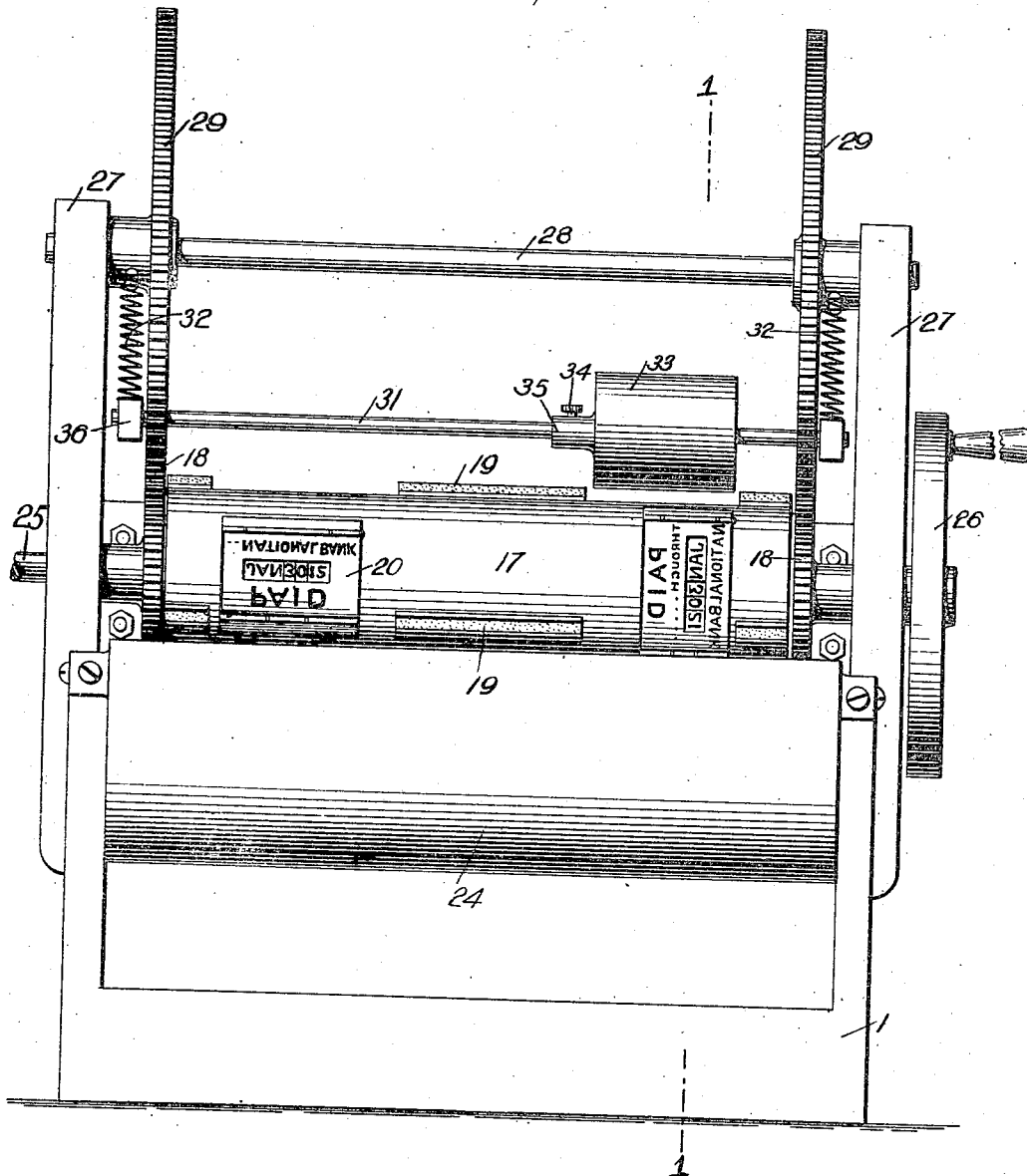
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3 SHEETS-SHEET 2.

Fig. 2.



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Fig. 3.

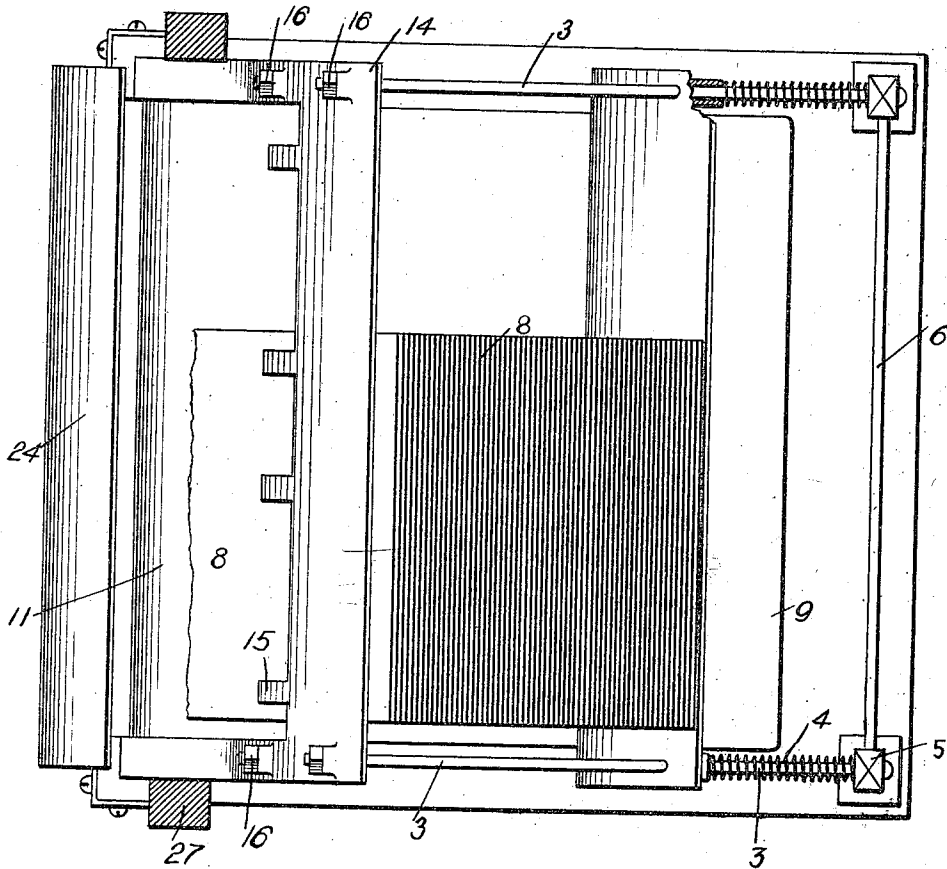


Fig. 4.

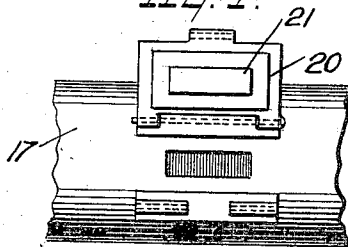
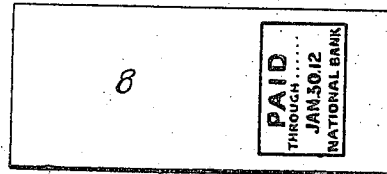


Fig. 5.



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JOHN DE CAMP HALL, OF LEAVENWORTH, KANSAS.

PRINTING-MACHINE.

1,086,167.

Specification of Letters Patent.

Patented Feb. 3, 1914.

Application filed November 11, 1912. Serial No. 730,627.

To all whom it may concern:

Be it known that I, JOHN DE CAMP HALL, a citizen of the United States, and a resident of Leavenworth, in the county of Leavenworth and State of Kansas, have invented a new and Improved Printing-Machine, of which the following is a full, clear, and exact description.

This invention relates generally to printing machines, and more particularly is directed to a structure especially intended for the cancellation or indorsement of checks and other negotiable instruments.

The principal object of the invention is the provision of a machine of the class described, simple in construction, and adapted for the mechanical canceling or indorsing of checks in banks or other institutions where the large amount of such work necessary entails considerable time when done by hand.

Many objects and advantages follow from the use of the structure herein described and claimed, not particularly set forth, the inventive idea, however, comprehending a structure included in the scope of the appended claims.

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

Figure 1 is a vertical sectional view of the machine on the line 1—1 of Fig. 2; Fig. 2 is a front end view; Fig. 3 is a sectional view on the line 3—3 of Fig. 1; Fig. 4 is a partial view of the roller, showing the detail of the door thereon; while Fig. 5 is a representative of a check or other instrument which has been canceled by the machine.

The particular structure illustrated comprises a base 1 of any suitable and desirable conformation, made of any suitable material, the front being provided with a pocket 2 in which the canceled or indorsed checks are received.

On top of the base, and extending longitudinally thereof and at opposite sides, are a plurality of rods or equivalent supporting devices 3, carrying helical springs 4, the rods being preferably mounted at the rear end of the base on uprights 5, connected by means of a bar 6, whereby a substantially rigid structure is provided.

Between the rods 3 and on top of the base

1, and extending there-around for a suitable distance, is a mat 7, preferably of rubber or equivalent material, on which the checks or other instruments 8 are placed, as indicated in Fig. 1, there being a follower board 9 against which the checks rest, the board being provided with a plurality of sleeves embracing the said rods 3 and engaging the said helical springs 4.

Referring particularly to Fig. 1 it will be noted that the top of the base 1 is removed for a suitable distance, the edge portion 11 being beveled whereby access to the pocket 2 from the top of the base is permitted. Adjacent the forward edge portion 11 of the top of the base is a fixed support 14, having a number of downwardly extending fingers 15, whereby portions of the checks or other instruments are accessible between the said fingers; this support 14 is preferably secured at the forward ends of the rods 3, being secured thereto in any suitable manner, as by means of nuts 16 engaging the said rods. From what has been said it will be apparent that when a number of the checks are placed on top of the base 1 on the mat 7, the checks will be fed forwardly toward the fixed support 14 by reason of the pressure exerted on the follower 9 by the springs 4.

Extending transversely of the base is a roller 17, provided with cogs 18 adjacent its ends, this roller being of any suitable form of construction, certain predetermined portions of the roller being provided with resilient extensions 19, as shown particularly in Fig. 1, the roller also carrying a hinged door 20 (Fig. 4) having a casing 21 thereon, a dating stamp of any desirable construction being carried by the casing and projecting for a suitable distance through the said door. The outside of the door 21 is provided with a stamp of any suitable material, such as rubber, which stamp may be adapted to impress certain words or names on a check, as, for instance, the matter illustrated in Fig. 5. The roller 17 is designed for continuous rotation, whereby the checks 8 will be successively withdrawn from the stack on top of the base and passed between this roller and the forward beveled edge portion of the top of the base, coming in contact with the stamp, the printed checks being finally received in the pocket 2 of the base, a baffle 24, preferably of curved formation, being positioned adjacent the front of the ma-

chine and serving to guide the printed checks into the pocket. In order to turn the roller 17, and to bring the resilient extensions 19 successively into engagement with the checks 8, whereby they are fed forwardly, the shaft 25 which supports this roller is provided at one end with a hand wheel 26, whereby it may be turned; if so desired, the shaft may be provided with a pulley carrying a belt in order to provide for motor-driving means. Positioned above the roller 17, and mounted in suitable standards 27, is a shaft 28 having gears 29 adjacent its ends which mesh with the cogs 18 on the roller 17, whereby simultaneous rotation of these parts is brought about. The gears 29 are designed to carry an inking device which comes adjacent the stamp at certain intervals in order to ink the same; the relation of the parts shown provides for inking of the stamp after every third check has been impressed, it being obvious that an undue amount of ink on the stamp is undesirable. Each of the gears 29 is provided with a radial slot 30, the slots in the gears being substantially in register, a spindle 31 extending through these slots, the spindle being retained in position remote from the shaft 28 by means of springs 32 secured to the ends of the said spindle and the hubs of the said gears; fixed to the spindle 31 is an ink roll 33 adapted to be held in any desired position by means of a set screw 34 carried on the hub 35 of the said roll; in order to provide for rotation of the roll and spindle when the roll engages the stamp, the before-mentioned springs are preferably engaged with bearings at the outer ends of the said spindle whereby such movement is permitted, the springs being compressed more or less during each rotation of the gears 29 when the said ink roll comes into engagement with the stamp.

The particular form of the stamp carried by the roller is, of course, immaterial; the idea is rather to provide a stamping machine of few parts, one of which is a roller carrying a stamp, along with resilient elements adapted to engage the checks or papers on which the stamp is to be impressed. The operation of the device is believed to be clear from the description of the structure set forth. A brief consideration of Fig. 1, however, will show that as the hand wheel 26 is turned the rotation of the roller 17 brings the resilient extensions 19 on this roller into engagement with the successive checks, whereby they are passed between this roller and the beveled edge portion of the front of the base, with the consequent impression on the check.

The size and shape of the different elements which make up the machine are, of course, capable of variation in order to arrive at a structure adapted for handling checks or papers of different sizes; it is also

obvious that different stamps may be placed on the roller 17, and that the fronts or backs of the checks may be impressed at will; Fig. 2, in fact, showing two stamps adjacent the ends of the roller, the particular idea being that one of the stamps is used for cancellation purposes and the other for indorsement.

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

1. The combination of a roller carrying a stamp, a plurality of revoluble members of greater diameter than the said roller and in engagement therewith, the said revoluble members carrying an inking roller, the inking roller being maintained in position by resilient devices, the inking roller being adapted to contact with the said stamp after a determined number of revolutions of the roller carrying the stamp.

2. In a printing machine, the combination of a roller carrying a stamp, a plurality of gears of greater diameter than the roller therewith, an inking roller carried by the said gears and revoluble independently thereof, resilient means for mounting the inking roller, the ratio between the diameters of the roller carrying the stamp and the said gears being such that the inking roller contacts with the stamp after a determined number of revolutions of the stamp-carrying roller.

3. A printing machine comprising a base, the top of which is adapted to support a number of checks or similar papers arranged one in front of the other, the base being provided with a pocket below the forward end of the top, a fixed support on the top of the base, adjacent the forward end, spring-pressed means on the top of the base for pressing the papers forward against the said fixed support, the said fixed support having downwardly extending spaced fingers between which portions of the front paper are exposed, a roller carrying a stamp, the roller being positioned above the forward end of the top of the base and in front of the said fixed support, means on the roller adapted to extend between the said spaced fingers and engage the exposed portions of the paper, whereby as the roller is turned the papers may be fed forward between the roller and the top of the base and be engaged by the stamp on the roller, and means for directing the stamped paper into the said pocket.

4. A printing machine, comprising a base adapted to support a succession of checks, the base being provided with a beveled edge portion, the base being also provided with a pocket beneath the said edge portion, a support adjacent the beveled edge portion of the base, means for pressing the checks against the support, the said support having downwardly extending spaced fingers,

a revoluble element carrying a stamp, the said element being located on the base adjacent the said edge portion, an inking wheel, means on the revoluble element, for engaging the checks between the said fingers, whereby the checks may be brought successively between the said edge portion and the said element in order to be stamped, and a baffle for directing the checks into the said pocket after stamping.

5. A printing machine, comprising a base provided with a pocket, a baffle adjacent the pocket, a mat on top of the base, spring-pressed means for maintaining the checks in position on the mat, a revoluble stamp carried by the base and adjacent the checks, a plurality of gears, an inking wheel resiliently mounted on the gears, means whereby the stamp may be turned, means actuated by the turning of the stamp for turning the said gears, and resilient extensions for engagement with the successive checks as the stamp is turned in order to bring them successively between the base and the stamp, the said baffle directing the stamped checks into the said pocket.

6. The combination of a roller carrying a stamp, a plurality of members revolubly mounted in position, an inking roller carried by the said members, means carried by the first roller, whereby as the said roller is turned the said members will also be turned, the said members which carry the inking roller being of substantially greater diameter than the roller on which the stamp is carried, whereby the inking roller engages with the stamp once after a determined number of revolutions of the said stamp-carrying roller.

7. A printing machine, comprising a base provided at its forward end with a pocket, a baffle adjacent the pocket, a rubber mat on top of the base, means for maintaining checks in position on the mat, one in front of the other, a roller adjacent the forward end of the base and carrying a stamp, means for turning the said roller, a plurality of gears connected by a shaft, a driving connection between the roller carrying the stamp and the said gears, a shaft resiliently mounted on the said gears, an inking roll adjustably mounted on said shaft, and means on the roller carrying the stamp for engagement with the successive checks in order to bring them successively between the said forward end of the base and the stamp, the checks coming into engagement with the said baffle and being directed into the said pocket.

8. In a printing machine, a roller carrying a stamp, means for turning said roller, revoluble members of greater diameter than the roller and actuated therefrom, a shaft connecting said revoluble members, the revoluble members being provided with radial slots, a spindle extending through said slots, bearings for the ends of said spindle, springs for resiliently supporting said bearings, and an inking roll mounted on said spindle and adapted to contact with the said stamp.

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

JOHN DE CAMP HALL.

Witnesses:

E. A. KELLY,

A. S. LEVINSON.