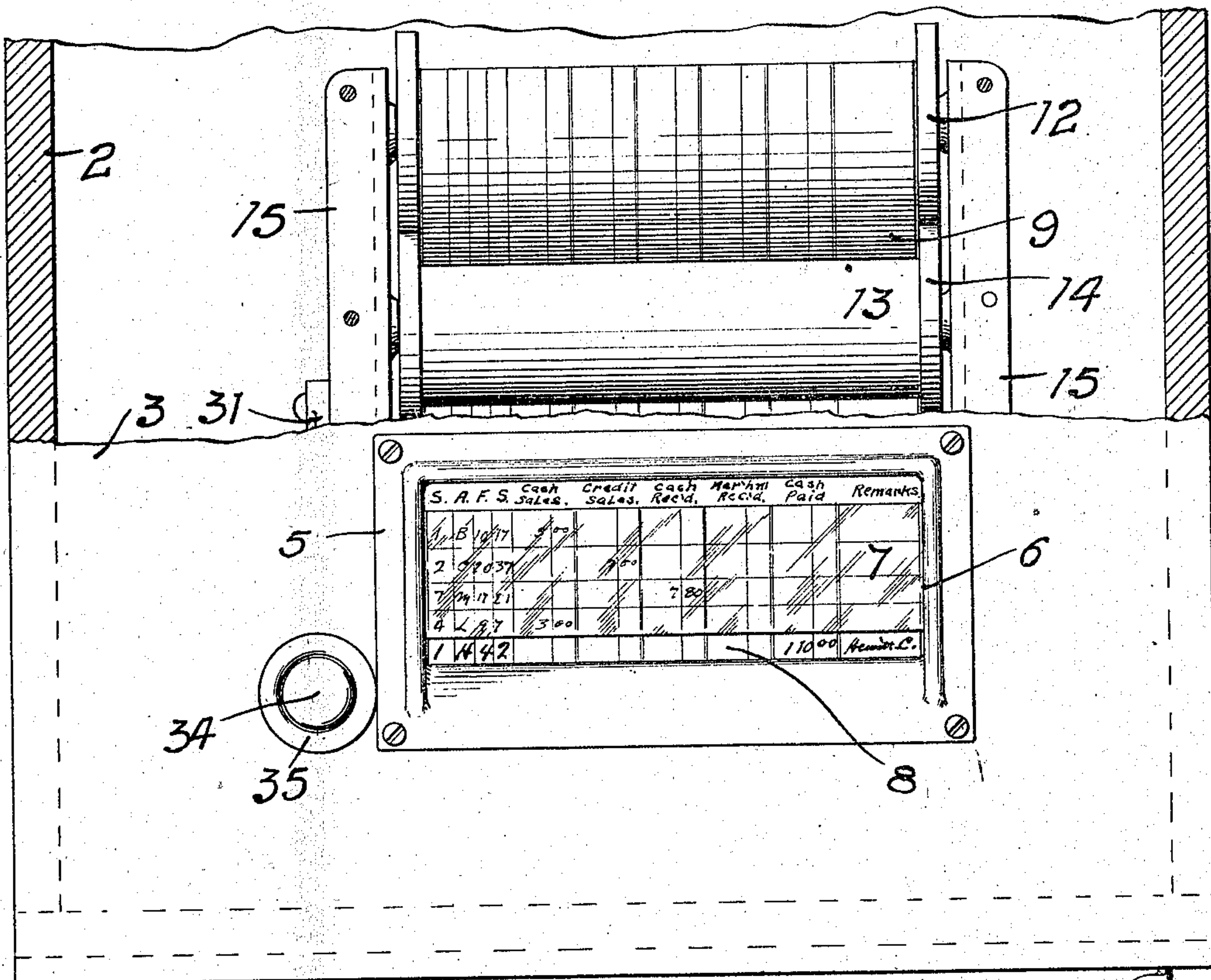
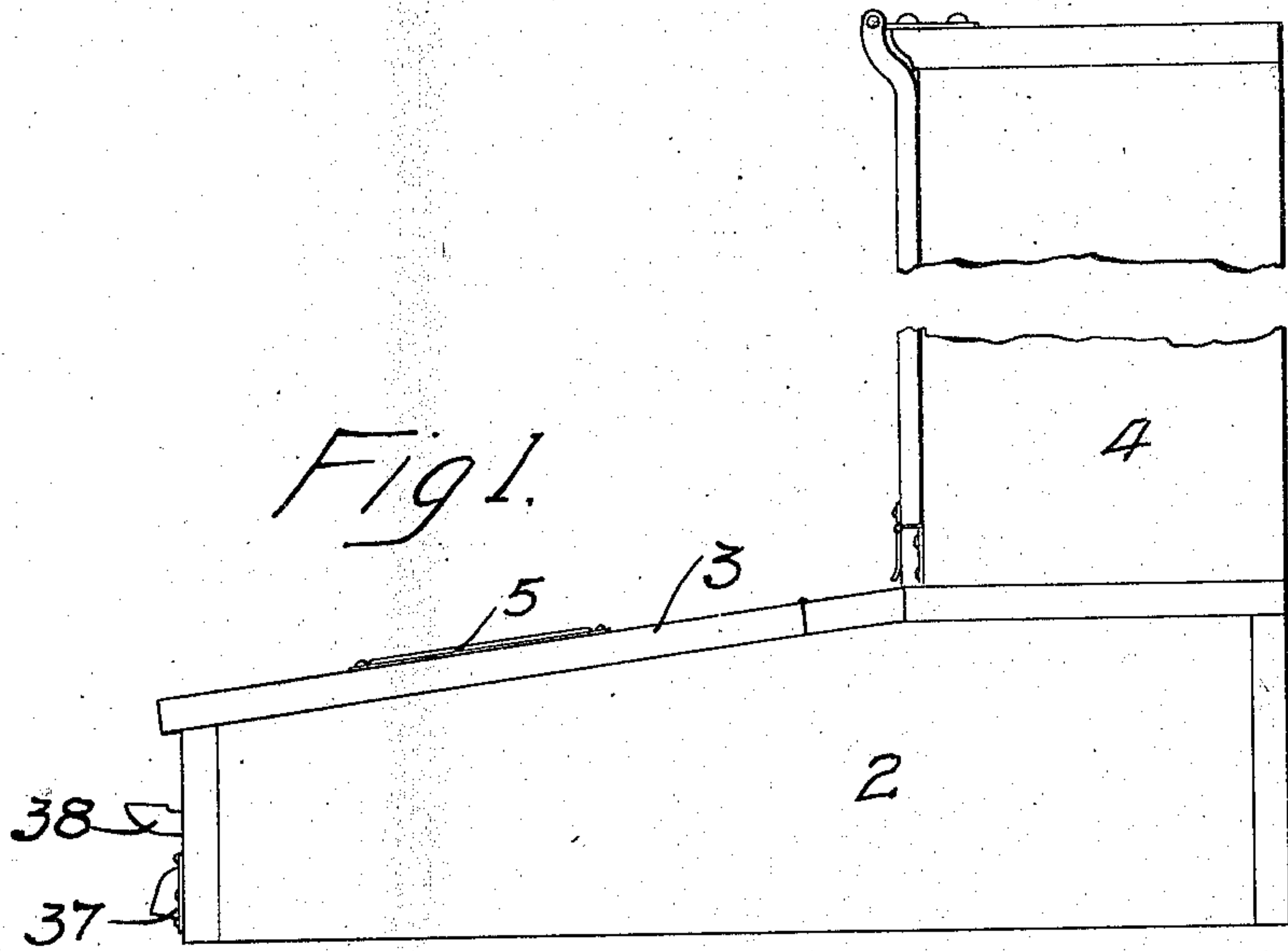


967,816.



WITNESSES  
*M. Walston*  
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*Fig 2.*

INVENTOR  
HORACE McCORMICK  
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HIS ATTORNEYS.



H. McCORMICK.

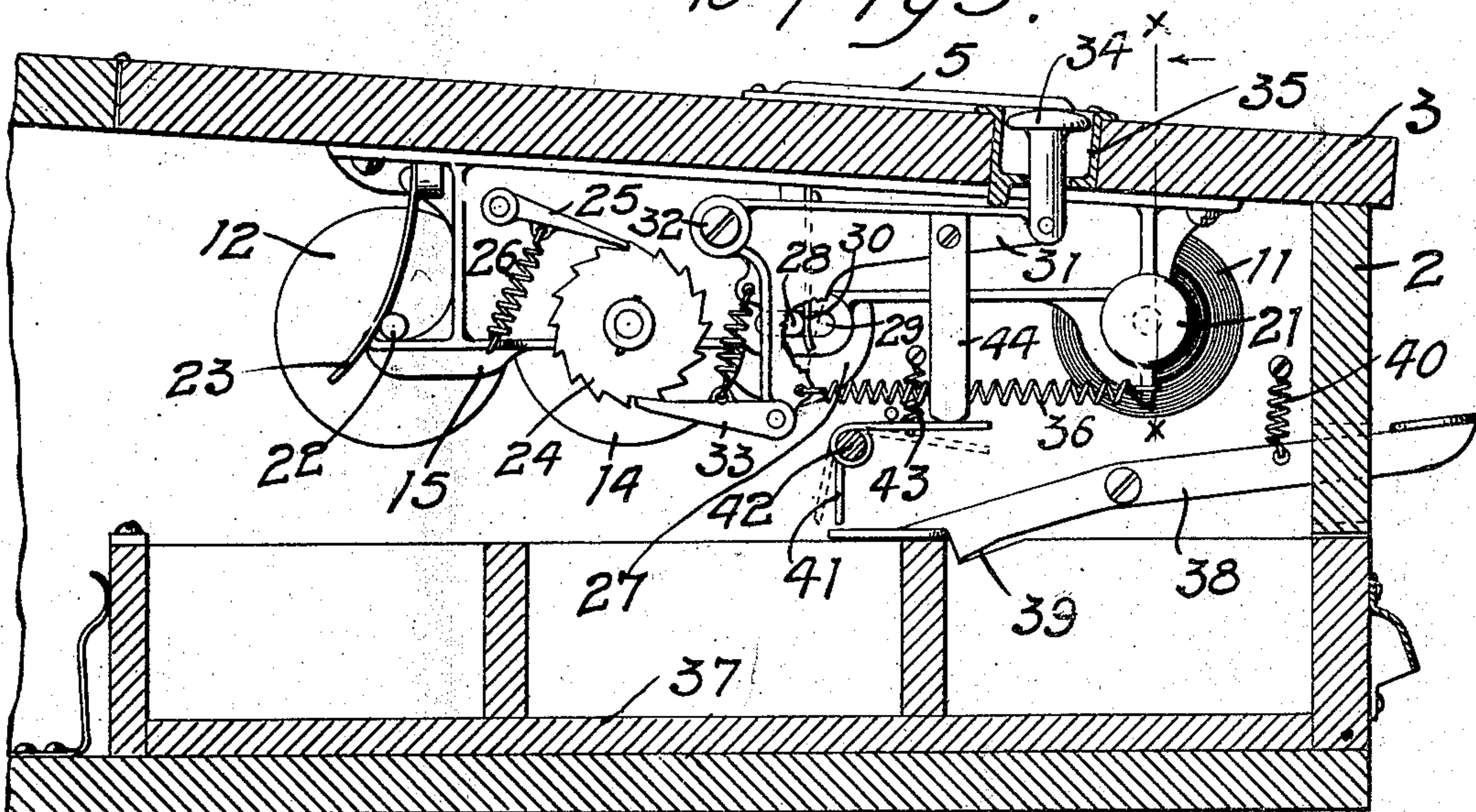
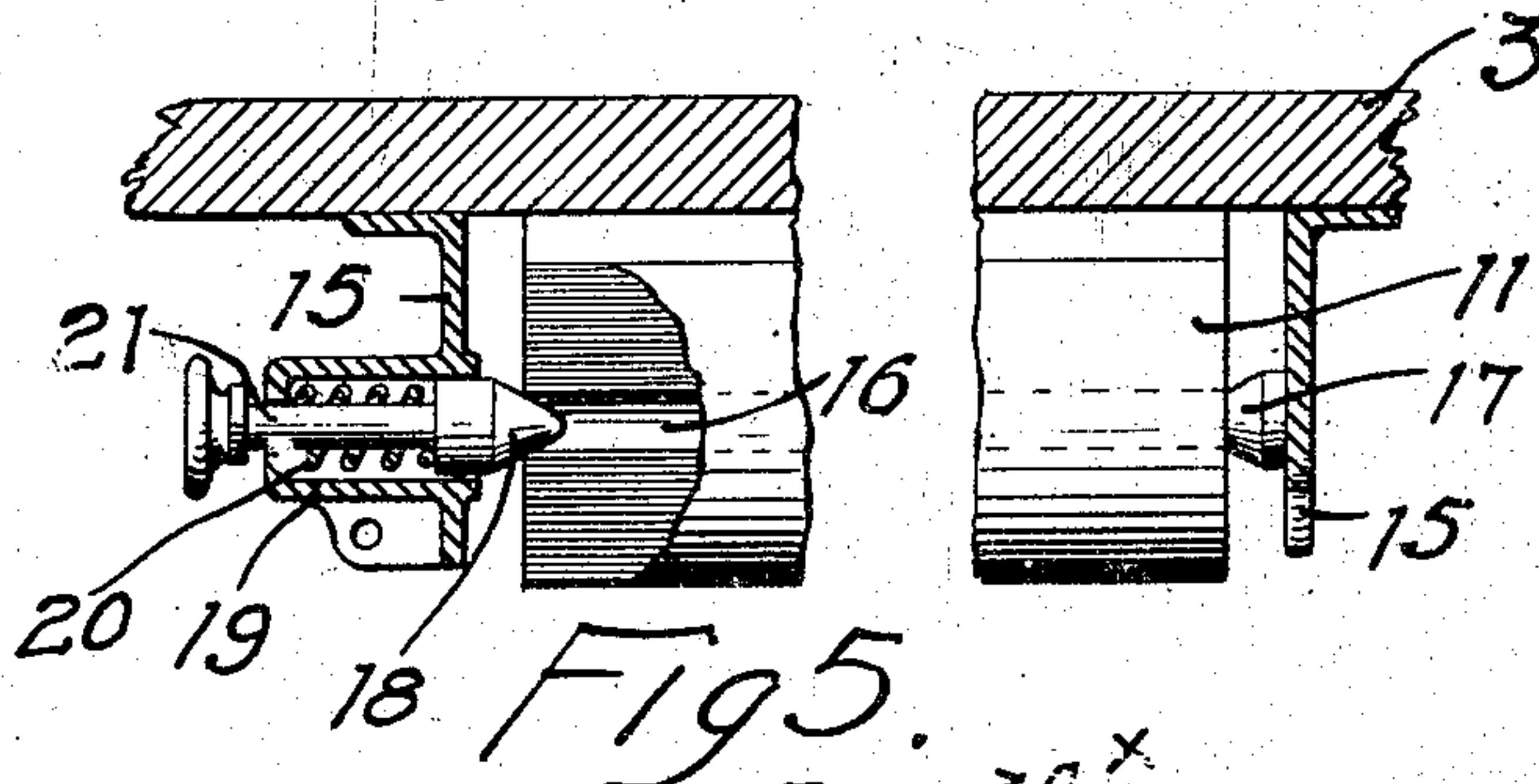
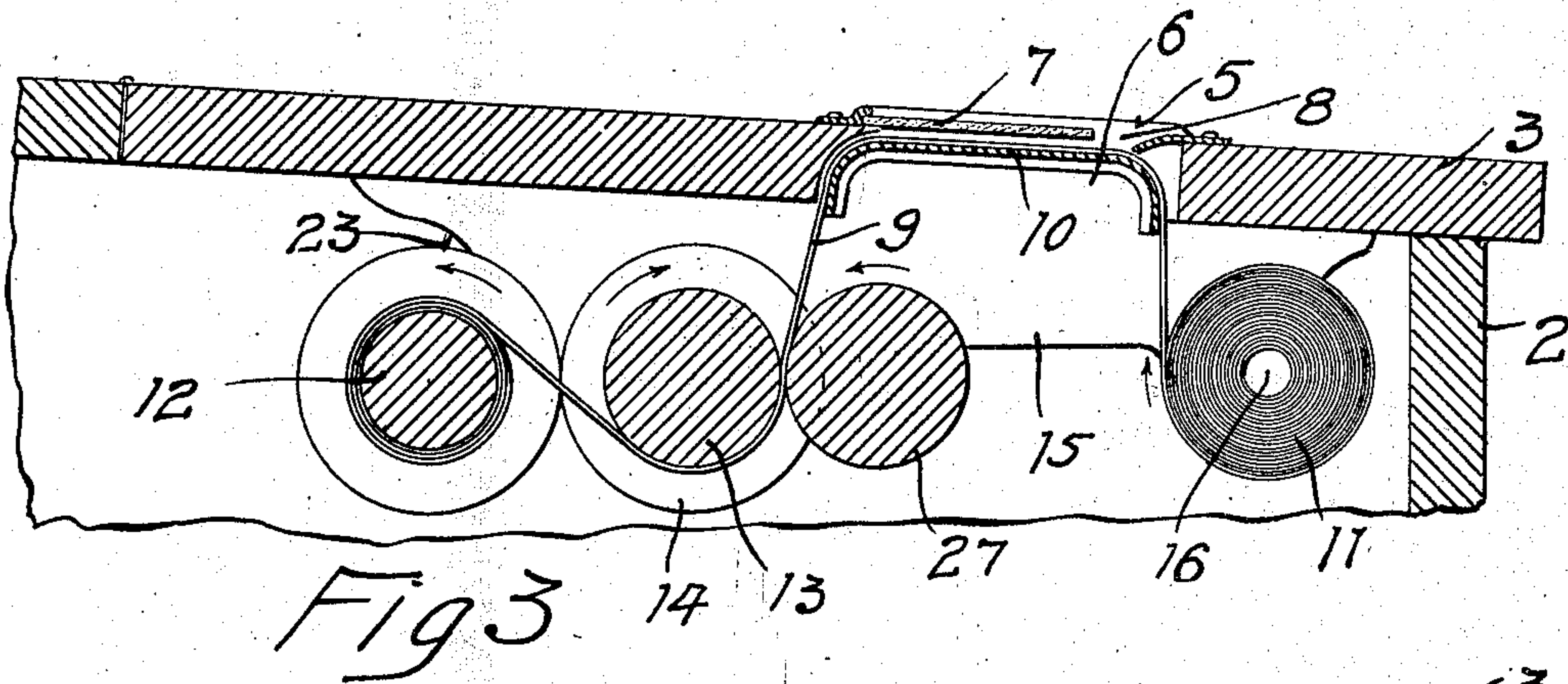
REGISTER.

APPLICATION FILED DEC. 15, 1906.

Patented Aug. 16, 1910.

2 SHEETS—SHEET 2.

967,816.



WITNESSES

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Fig. 4.

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# UNITED STATES PATENT OFFICE.

HORACE McCORMICK, OF DES MOINES, IOWA.

## REGISTER.

967,816.

Specification of Letters Patent. Patented Aug. 16, 1910

Application filed December 15, 1906. Serial No. 347,914.

*To all whom it may concern:*

Be it known that I, HORACE McCORMICK, of Des Moines, Polk county, Iowa, have invented certain new and useful Improvements in Registers, of which the following is a specification.

The object of my invention is to provide a register adapted particularly for keeping a record of the transactions in a short account sales system wherein a series of files are employed in connection with a cabinet to contain the duplicate sale slips and also those containing the accounts of the merchant with the wholesaler.

A further object is to provide a register having means for feeding the record ribbon so that a certain amount of paper will be fed with each movement regardless of the variation in the size of the rollers on which the paper is wound.

The invention consists generally in various constructions and combinations all as hereinafter described and particularly pointed out in the claim.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of a register and cabinet embodying my invention. Fig. 2 is a plan view of a portion of the base of the cabinet, the top being broken away at one side to illustrate the mechanism therein. Fig. 3 is a transverse sectional view of a portion of the base of the cabinet. Fig. 4 is a sectional view illustrating the mechanism for operating the paper roll. Fig. 5 is a detail of the frictional bearings for the paper roll taken on the line *x-x* of Fig. 4, showing the preferred manner of mounting it in the case.

In the drawing, 2 represents a suitable base having a hinged cover 3 and supporting a case or cabinet 4 wherein the files containing the duplicate sales slips are placed. The top 3 is provided with a frame 5 surrounding an opening 6 therein over which a glass plate 7 is placed. This opening has at one side under the plate suitable lettering to indicate the different notations made on the paper beneath, and at one end marks will be made on the paper indicating the number of the salesman and any other data which may be of assistance in locating the file or the customer's account in the ledger.

A narrow opening 8 is provided between the edge of the glass 7 and the frame 5 and through this opening access may be had to the paper strip 9 beneath for the purpose of

making notations thereon. Beneath the opening is a curved plate 10 forming a smooth hard surface over which the paper slides.

11 represents a roll of paper mounted in the base at one side and below the opening therein. 12 is a roller provided on the other side of the opening to which the paper is transferred from the roll 11. A roller 13 having flanges 14 is provided near the roller 12, the flanges contacting with similar flanges on the roller 12 for the purpose of revolving the same and winding the paper thereon. A depending frame 15 is provided on the cover at each end of the rollers. The roll 11 has a hole 16 to receive the fixed and movable bearing 17 and 18 the latter being slidable in a casing 19 and normally held in yielding engagement with the roller by a spring 20. A pin 21 is attached to the bearing stud 18 and extends through the casing by means of which the stud can be drawn out to permit a new roll of paper to be placed thereon. The roller 12 has pins 22 driven into its ends and its flanges are held in engagement with the ends of the roller 13 by flat springs 23 which bear on the said pins. The roller 13 has fixed bearings in the said frame and is provided with a ratchet wheel 24. A dog 25 having a spring 26, prevents backward movement of the ratchet. A roller 27 preferably of wood has pins 28 in its ends arranged to slide in slots 29 in said frame and springs 30 bearing on said pins, and hold the roller in engagement with the roller 13 and the paper thereon. A bell crank 31 is pivoted at 32 and has a depending arm provided with a dog 33 to engage the teeth of the ratchet 24. The other arm of the bell crank is pivotally connected with the shank of a push button 34 that is vertically movable in a casing 35 in the top of the register case. When this push button is pressed down the bell crank 31 will be oscillated and the roller 13 revolved and its frictional engagement with the paper between it and the roller 27 will have the effect of feeding the paper a uniform distance each time the push button is pressed so that regardless of the size of the roll of paper on either of the rolls 11 and 12 there will be a uniform feed with every operation. The spaces therefore on the paper can be made of uniform width and the appearance of the record slip greatly improved and the entries thereon more conveniently made. The paper receiving roller



12 will be driven by frictional contact with the roller 13 but this contact permits the roller 12 to slip whenever the tension on the paper requires it, and accommodate itself to the movement of the roller 13. The latter roller has a positive movement and the paper gripped between it and the roller 27 will always be moved the same distance regardless of the amount of paper on the receiving roller 12. A tension spring 36 is connected to the lower arm of the bell crank 31 for the purpose of returning it to its normal position when the pressure on the button 34 is released.

To operate the device the clerk will press on the button, feed the paper forward, make the necessary entry thereon opposite the name of the clerk making the sale and the details of the entries on the register will serve as a recapitulation sheet for the slips in the files and also as a check therefor.

It is desirable in a device of this kind to provide a cash drawer which I have indicated in the base and designated by reference numeral 37. A lever 38 is pivoted in the base and projects outside the same where it can be pressed by the finger of the operator, and its inner end is normally held within a notch 39 by a spring 40. A locking device 41 is mounted on a rod 42 above the lever 38 and is normally held in its work-

ing position by a spring 43. The arm 41 is operated by an arm 44 secured to the bell crank 31 and depending therefrom in position to engage the said arm and swing it away out of the path of the lever 38 to permit said lever to be depressed and the cash drawer released.

I claim as my invention:—

The combination, with a casing having an opening therein, of a paper delivering roller mounted in said casing on one side of said opening, a paper receiving roller having flanged ends on the other side of said opening, an operating roller having flanged ends, means for holding the flanges of said paper receiving roller in frictional engagement with the corresponding flanges of said operating roller, a paper feeding roller arranged to bear on said operating roller between the flanges thereof and between which paper feeding and operating rollers the strip of paper is fed a uniform distance with each movement of said operating roller, regardless of the amount wound upon said paper receiving roller.

In witness whereof, I have hereunto set my hand this 8th day of December 1906.

HORACE McCORMICK.

Witnesses:

JOHN BURIANEK, Jr.,  
GEO. W. JONES.