No. 606,768. Patented July 5, 1898.

B. F. SEIBERT.

CASH REGISTER AND RECORDER.

(Application filed Sept. 11, 1897.

(No Model.)

2 Sheets--Sheet 1.

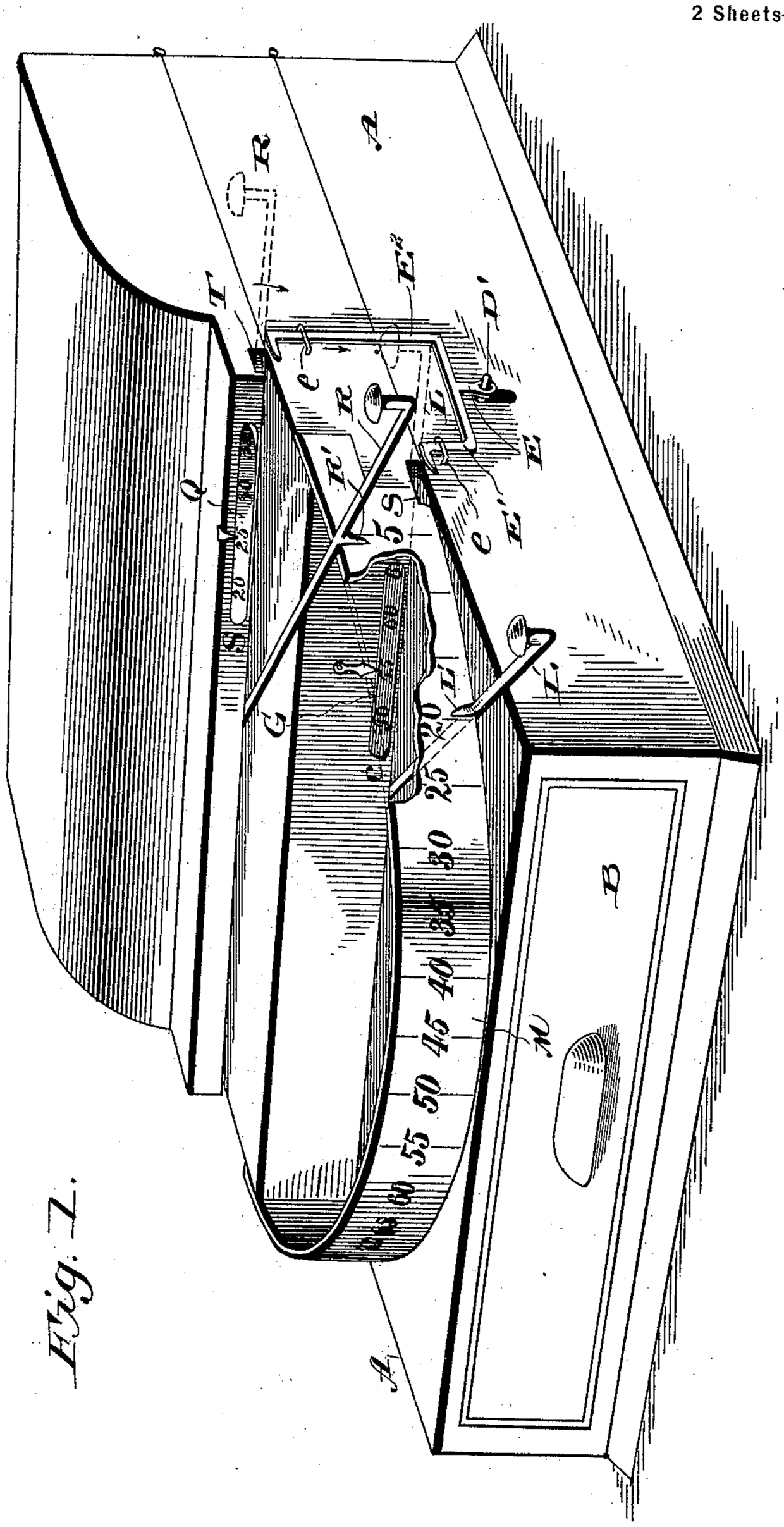

Fig. 1.

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2 Sheets—Sheet 2.

Fig. 2

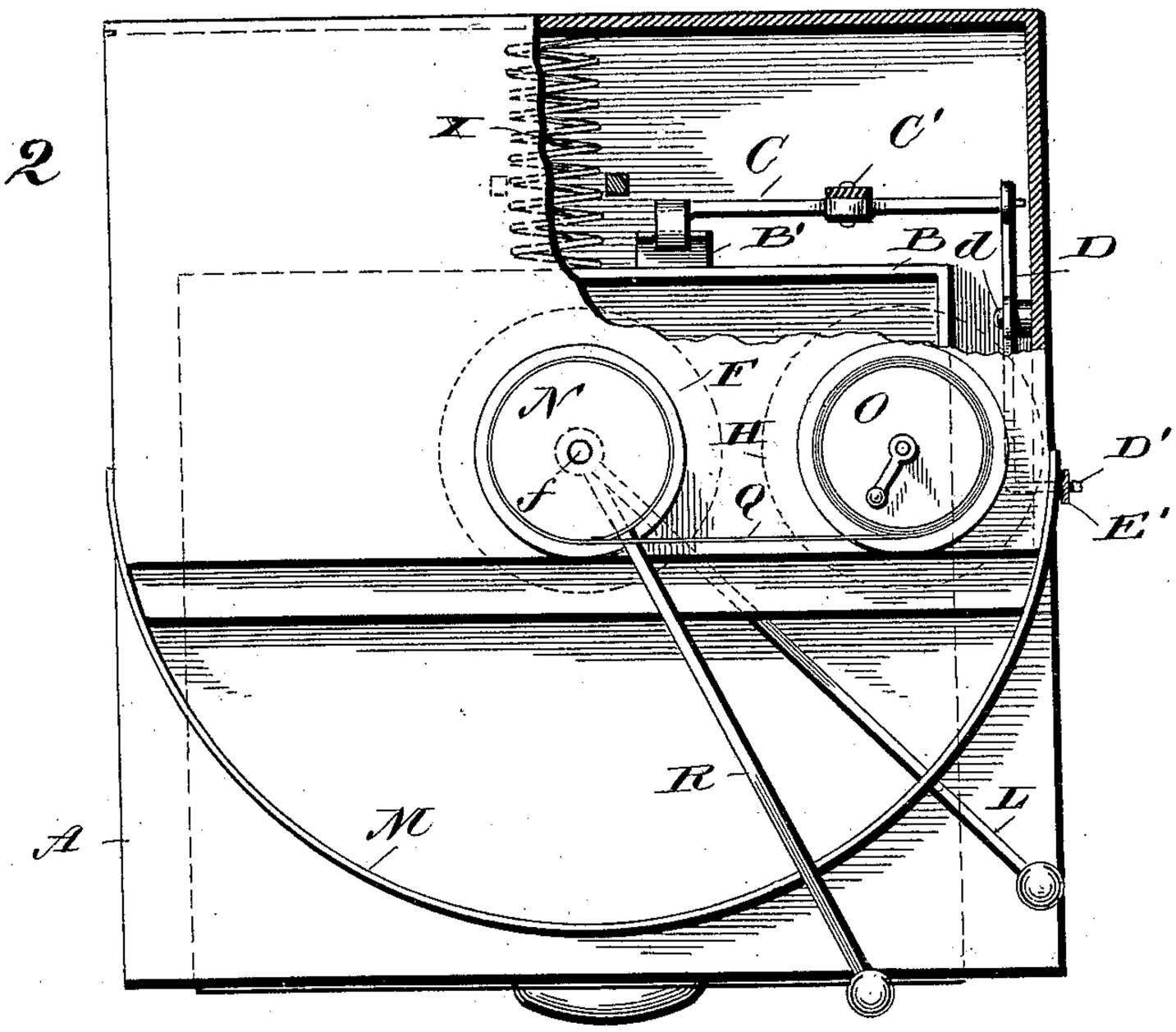


Fig. 3.

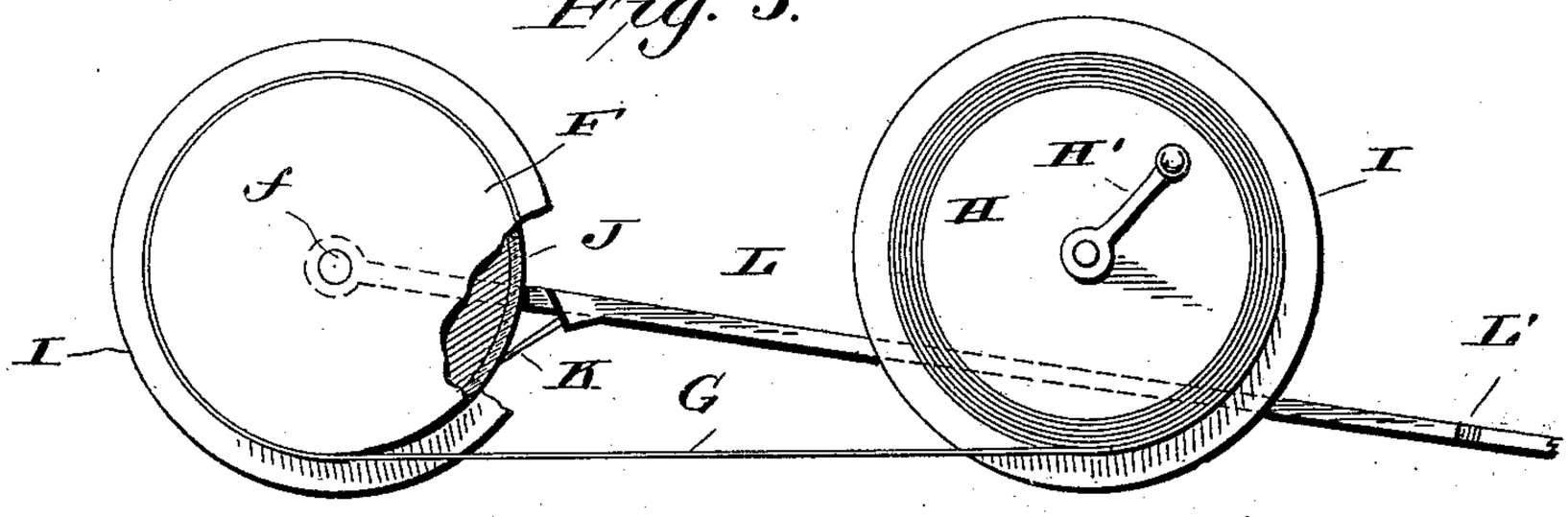
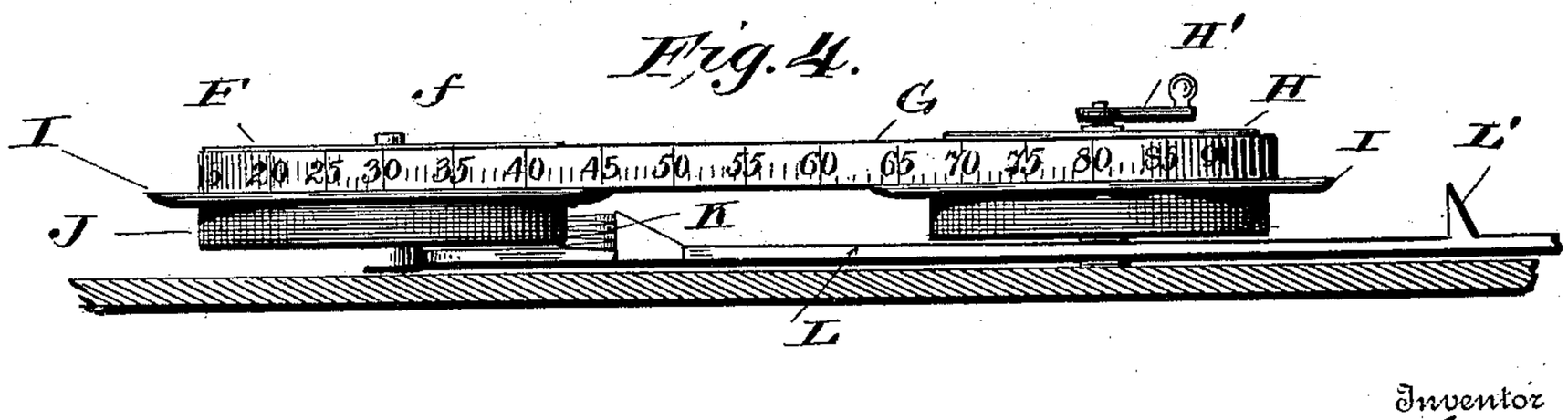


Fig. 4.



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UNITED STATES PATENT OFFICE.

BENNETT FINLEY SEIBERT, OF MANSFIELD, OHIO.

CASH REGISTER AND RECORDER.

SPECIFICATION forming part of Letters Patent No. 606,768, dated July 5, 1898.

Application filed September 11, 1897. Serial No. 651,371. (No model.)

To all whom it may concern:

Be it known that I, BENNETT FINLEY SEIBERT, a citizen of the United States, residing at Mansfield, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Cash Registers and Recorders; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in cash registers and recorders, and especially to mechanism of this character whereby a purchase amount may be indicated by the manipulation of a lever carrying an indicating-pointer, which pointer is caused to register with a numeral on a suitably-graduated dial, the same movement of the lever causing a partial revolution of a pulley, about the circumference of which is wound a tape on which are numerals provided to indicate the sum of a series of purchases.

A further part of the invention resides in the provision of a novel means of causing a rotation to the tape-carrying wheel or pulley, which may be effected by points secured to the operating-lever, which are designed to prick into a portion of the circumference of the tape-carrying wheel or pulley as the lever carrying the pointer is rocked on its pivot, thus causing the tape to wind from one wheel to another.

In connection with my improved cash-register I provide means for automatically releasing a catch to the money-drawer previous to the indicating and recording of a purchase amount.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of the parts, as will be hereinafter more fully described and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a perspective view of my improved cash register and recorder, a portion of the indicating-dial being broken away to better illustrate the invention. Fig. 2 is a top plan view of the register, showing a part of the casing broken away to illustrate the mechanism for releasing the catch to the money-drawer. Fig. 3 is a detail view of the tape-wheels and operating-lever. Fig. 4 is a side elevation of the tape-wheels and operating-lever carrying points designed to engage with a portion of the circumference of one of the tape-carrying wheels.

Reference now being had to the details of the drawings by letter, A designates the casing of the register, and B a money-drawer, having a catch B′, which is normally engaged by the end of the lever C which is pivoted at C′ to a portion of the casing. D is a second lever pivoted at *d* to the casing, and one end of said lever D is bent at an angle and has its end extended through an aperture in the end of the casing of the register, as seen at D′, while the other end of the lever D rests above the outer end of lever C. Over the end of the lever at D′ rests the member E, which has two laterally and upwardly extending arms E′ and E², held to the casing by means of staples *e*.

Mounted on a pivot *f*, preferably in the center of the casing of the register, is a pulley or wheel F, to the circumference of which is attached one end of a tape G, on which are printed the numerals, as shown. The other end of the said tape is attached to the second tape wheel or reel H, on which it is wound by means of a crank H′, when the register or recorder is in readiness for use. These wheels F and H are divided centrally about their circumferences by the flanges I, on which the tape rests.

Beneath the flange I on the wheel or pulley F is provided a rubber band J, into which the points K are adapted to prick and engage, which points are secured to an operating-lever L. The inner end of said operating-lever L is pivoted on the pivot *f* and carries an indicating-pointer L′, which is adapted to reg-

ister with the numerals on the dial M, which dial is of semicircular shape and has its numerals arranged, preferably, in the manner shown in the drawings, so that the same numerals may be utilized for recording purchases amounting to dollars and cents by distinct operating-levers.

The tape-wheels and mechanism for operating the same, as described, are utilized for recording purchases from one cent to a dollar. For recording purchases from one dollar and upward a second set of tape-wheels and levers for operating same are provided and are located above the tape-wheels which have been previously described and are designated by letters N and O in Fig. 2 of the drawings. These wheels are mounted on common pivots with the wheels F and H, respectively, and are of a smaller diameter than the wheels F and H. A second tape Q, provided with numerals, is attached to the said second set of wheels, and an operating-lever R, similar to lever L, is provided, having points which engage with the wheel N to cause a revolution of the same. An indicating-pointer R′ on the lever R is downwardly turned and is designed to indicate on the dial M purchases amounting from one dollar upward.

To adjust the register and recorder for use, the tapes on the two sets of wheels are wound on wheels O and H (Fig. 3 showing clearly the tape wound upon wheel H) and the operating-levers are swung back in the positions shown in dotted lines in Fig. 1 and rest normally in the notches T and S and each lever R and L in this position resting directly over the upper angled ends of the arms E^2 and R′, respectively, so that as the said levers are slightly depressed to disengage same from the said notches and allow the levers to swing on their pivots the lever which is operated depresses against an arm of the member E and causes the outer end D′ of the lever D to tilt on its pivot, which tilting of lever D causes the lever C to tilt and release the catch on the money-drawer and allow the drawer to spring open by means of the coiled spring X, bearing under tension between the rear end of the casing and the back side of the drawer, this spring being a well-known expedient common in the art. In order to cause the catch-releasing lever and mechanism to return to its normal position after releasing the drawer, the inner end of the lever C may be weighted, so that as the drawer is closed the latter will be automatically locked.

If preferred, a ratchet mechanism may be employed, instead of the points on the operating-levers, for the purpose of actuating the wheel or pulley on which the tape is to be wound, and, if desired, other changes may be made in the construction of the mechanism without departing from the spirit of the present invention, which changes may be found from experience to render the device more practical and simple in construction. Such a change might be, for instance, the arrangement of the mechanism in a perpendicular position instead of horizontally.

To record a purchase, the operating-lever is manipulated so that the indicating-pointer carried thereby will register opposite the numeral on the dial, which numeral corresponds with the amount of the purchase, the upper lever being operated if purchases amounting to one dollar and over are to be recorded and the lower lever if cents are to be indicated. As the lever is brought to register with the proper numeral on the dial the amount of the purchase will appear at the opening in front of the tape at or opposite an indicating-pointer, as shown in Fig. 1 of the drawings. After one purchase has been recorded the operating-lever must be returned to its first position, (shown in dotted lines,) and the same operation is repeated, and the tape caused to wind from one wheel to another by means of the points on the operating-lever pricking into the rubber on the circumference of the wheel and imparting to it a step-by-step movement. At the end of a day's business the total amount of the purchases for that day will be recorded, as will be readily understood.

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

1. A cash register and recorder comprising a set of reel-wheels and recording-tape carried thereon, mounted in a suitable casing, the said wheels having a central flange against which the tape rests, and the lower portion of one of the wheels having a band, and an operating-lever having points which are designed to prick into and cause a step-by-step rotation to the said wheels as the lever is swung out to indicate a purchase amount, as set forth.

2. In a cash register and recorder the combination with the casing and recording mechanism as described, the indicating-dial having a notched portion in which the operating-lever rests, of the member E having an arm against which the said lever is adapted to bear when released from said notch, of the money-drawer and catch and levers D and C all arranged and operated substantially as shown and described.

3. In a cash register and recorder, the combination with the casing and recording mechanism as described, a portion of the casing notched as at T adapted to normally receive the operating-lever, of the vertically-movable member E^2 and guide-staple *e*, against which member the said lever strikes as it is depressed, and the connections between the said member and the money-drawer as shown and described.

4. A cash register and recorder, comprising

in combination the horizontally-disposed reels, each having a flange I centrally about its circumference, a band about one of the reels below its flange, an operating-lever having a rigid shoulder thereon, pointed pawls on said shoulder, adapted to engage with the said band to rotate the reel, as the operating-lever is swung out on its pivot and to ride on the surface of the band, as the lever is swung back to its starting position, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

BENNETT FINLEY SEIBERT.

Witnesses:

E. S. GREENLEE,

H. T. MAUNER.