

No. 667,844.

Patented Feb. 12, 1901.

C. A. LEE, E. T. DERGE & E. P. ROOT.

CASH REGISTER.

(Application filed June 14, 1900.)

(No Model.)

2 Sheets—Sheet 1.

Fig 1

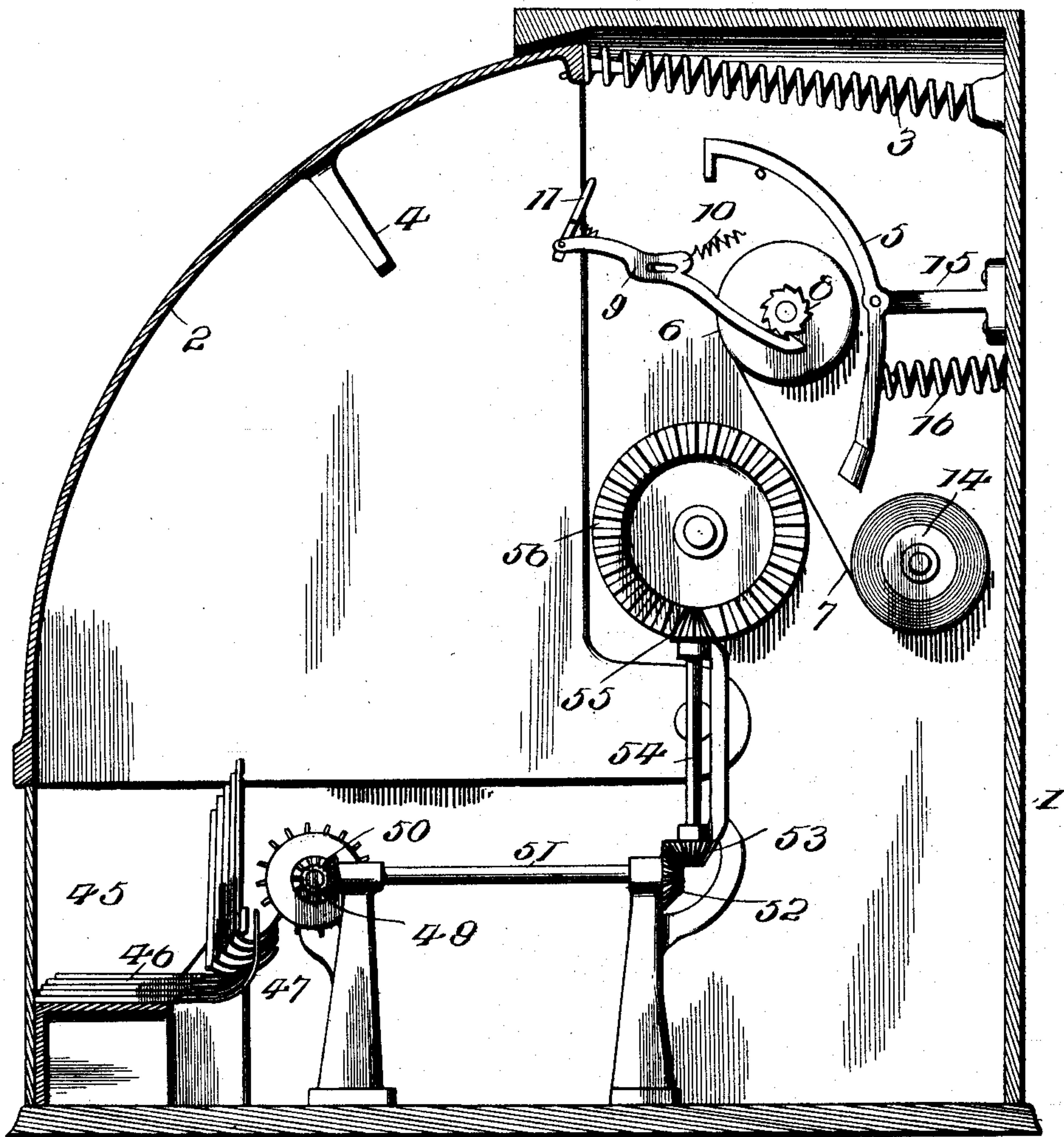
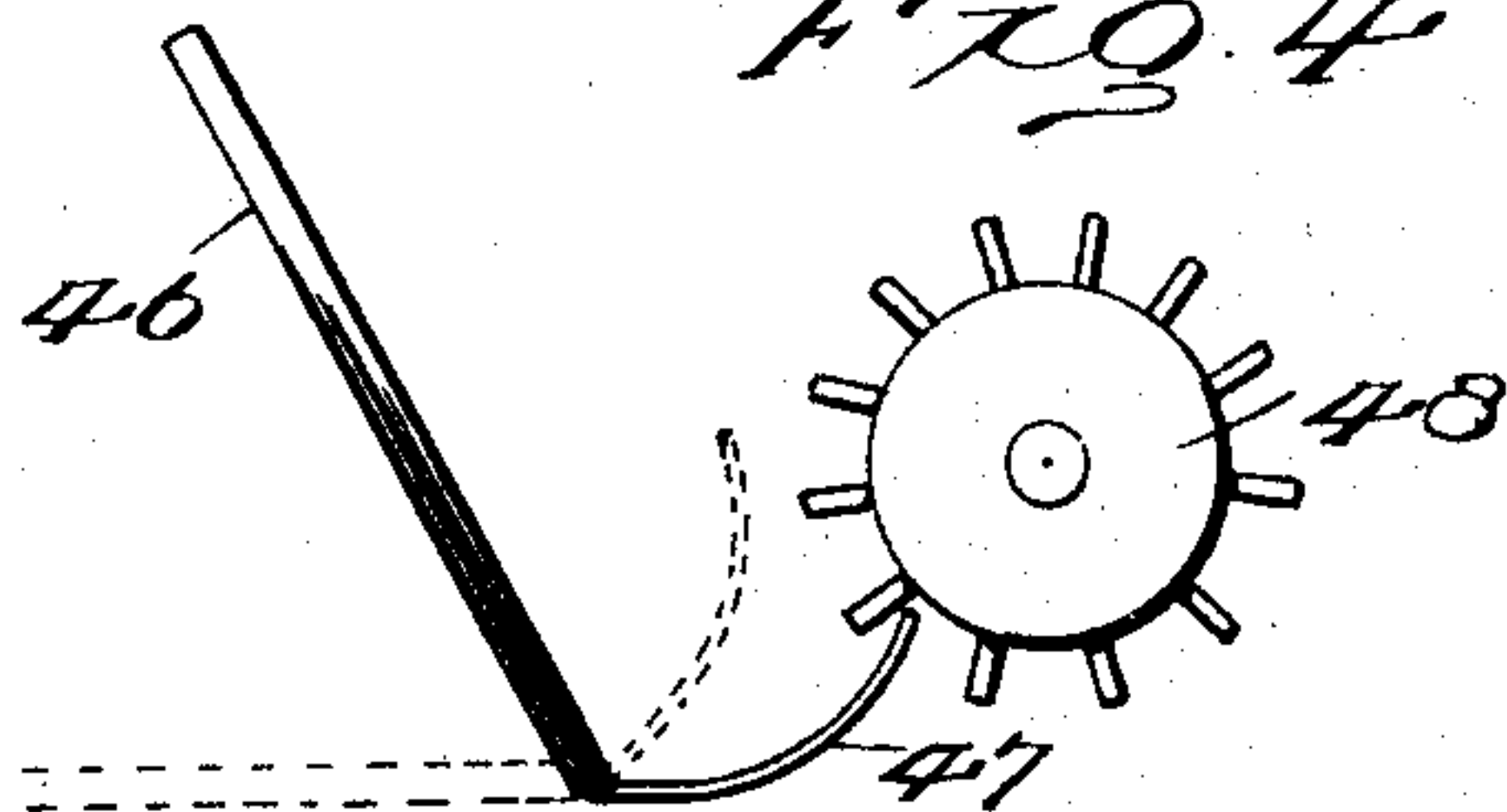


Fig. 4



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334

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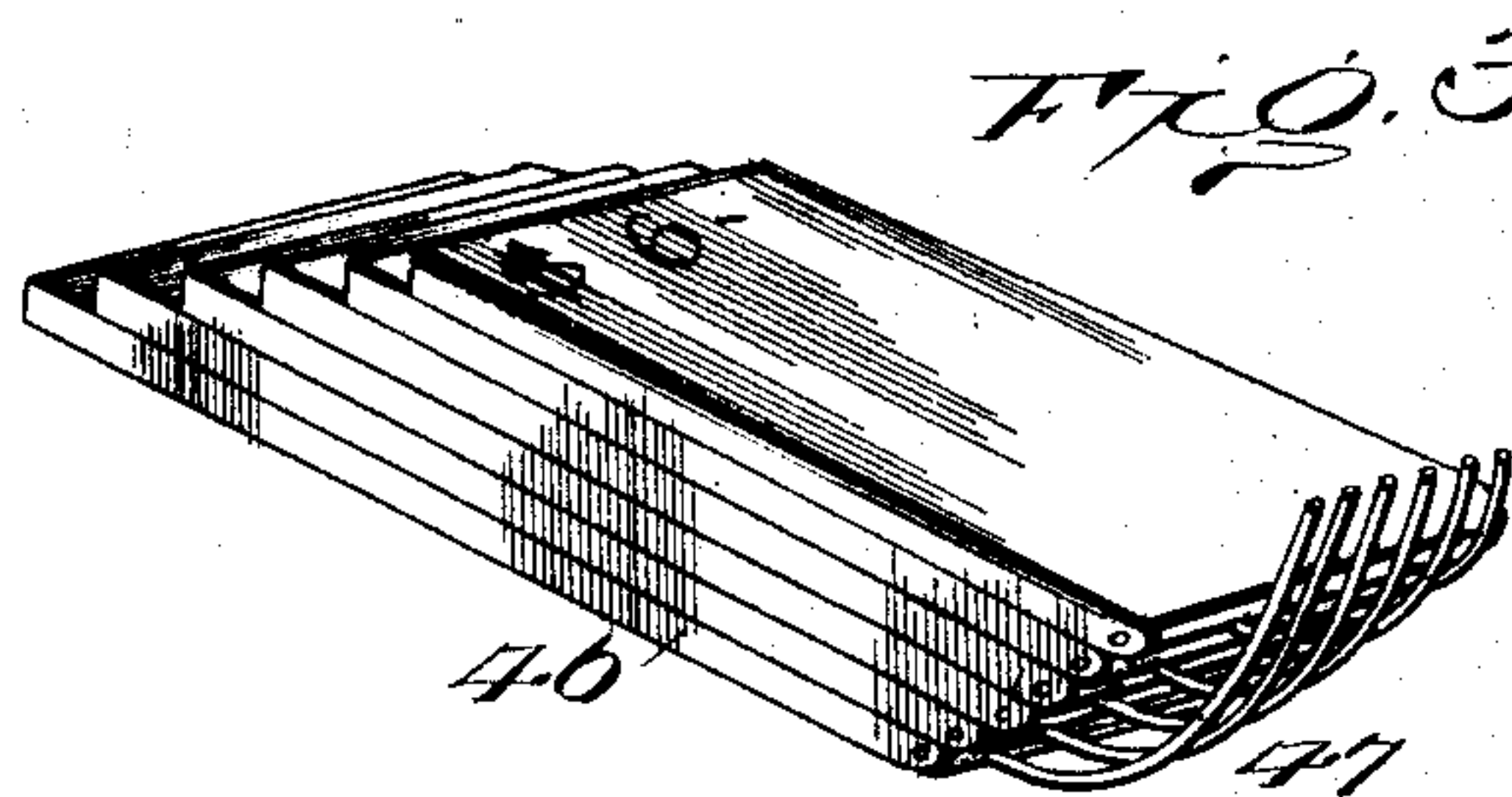
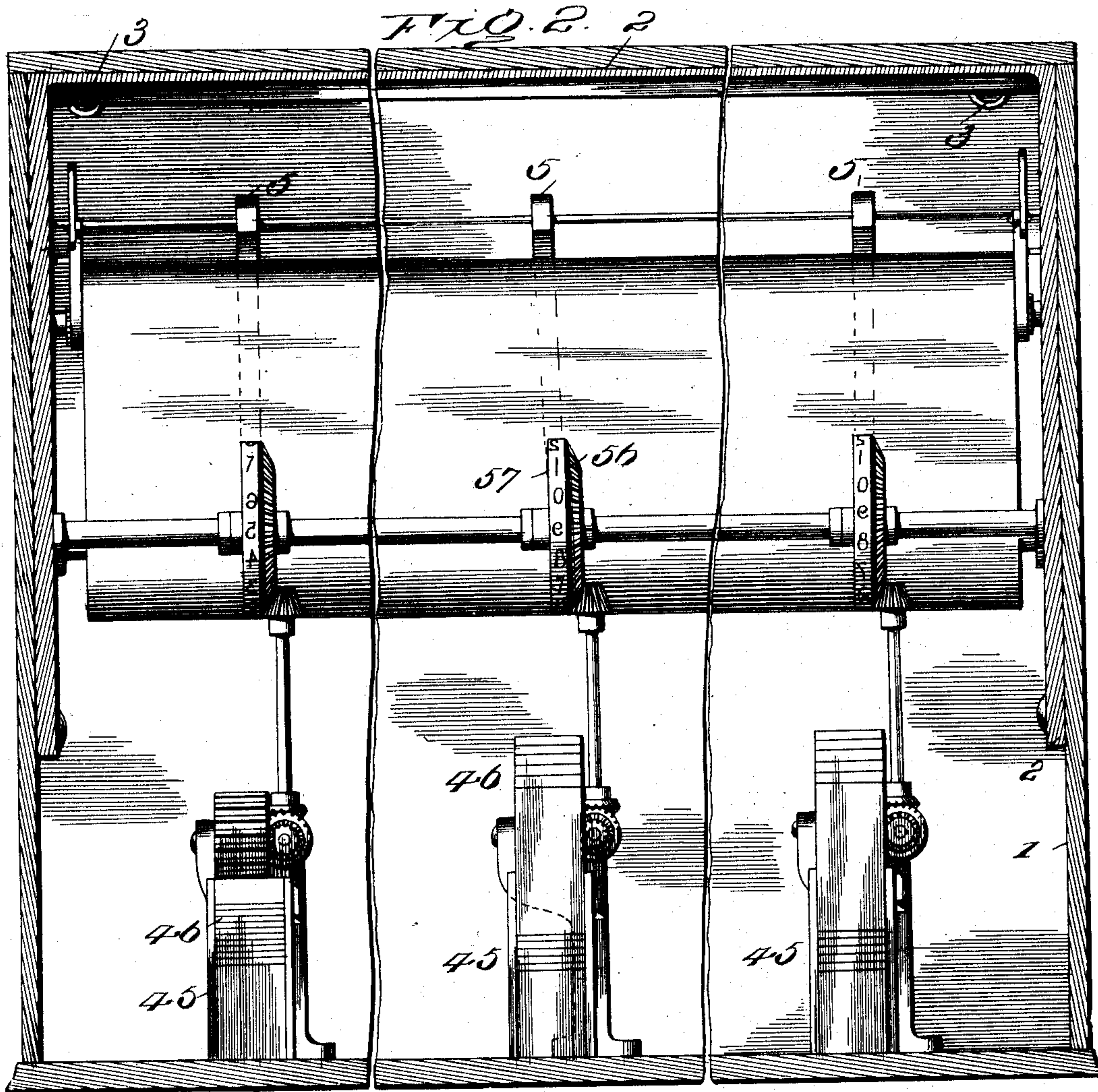
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

CHARLES A. LEE, OF REPUBLIC CITY, AND ERNEST T. DERGE AND EDWIN P. ROOT, OF LEBANON, KANSAS.

CASH-REGISTER.

SPECIFICATION forming part of Letters Patent No. 667,844, dated February 12, 1901.

Original application filed June 14, 1900, Serial No. 20,333. Divided and this application filed June 14, 1900. Serial No. 20,334.
(No model.)

To all whom it may concern:

Be it known that we, CHARLES A. LEE, residing at Republic City, in the county of Republic, and ERNEST T. DERGE and EDWIN P. ROOT, residing at Lebanon, in the county of Smith, State of Kansas, citizens of the United States, have invented certain new and useful Improvements in Cash-Registers; and we do hereby 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.

This invention belongs to mechanical means for keeping tally of the various denominations of currency, so that the amount of each denomination can be quickly determined at a glance, the various bills being kept separate and between leaves, which are numbered consecutively, so as to register the amount each time a bill is deposited.

This application is a divisional part of an application for a like invention executed of even date herewith and filed June 14, 1900, Serial No. 20,333, the specific novelty depending upon the currency-receptacles, the leaves cooperating therewith, and the adjuncts, such as the recording mechanism, which will be more fully disclosed hereinafter.

In the drawings forming a part of this application, Figure 1 is a transverse section of a register embodying the invention and taken upon an irregular line, so as to indicate the relative disposition of the cooperating parts. Fig. 2 is a vertical longitudinal section, parts being broken away. Fig. 3 is a detail view of a series of registering-leaves. Fig. 4 is a detail view of the grooved drum and a leaf, the dotted lines showing the extreme positions of the leaf and the full lines an intermediate position.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The casing 1 for housing the working parts may be of any size or design, according to the style of machine, and is accessible by means of a swinging door 2, which is of curved form in transverse section. The door 2 when closed is locked and is adapted to be opened

against the tension of a spring 3, interposed between its top portion and the upper part of the casing. A trip 4 is attached to the door and projects inward therefrom and is adapted to engage with an impression-lever 5 and a part of a mechanism for turning the roller 6, upon which the strip of paper 7 is adapted to be wound. The paper-feeding mechanism may be of any construction so long as it is adapted to be actuated by the door and to turn the roller 6 every time the door is closed. A ratchet-wheel 8 is secured to the shaft upon which the roller 6 is mounted, and a dog 9 is provided to cooperate with the teeth of the ratchet wheel to effect a step-by-step movement of the roller. As shown, the dog 9 has a sliding movement and is returned to a normal position by means of a spring 10. A finger 11 is pivotally connected with the outer end of the dog 9 in such a manner as to permit the trip 4 to ride thereover when opening the door 2 and to stand in the path of said trip when the door is closed, so as to impart a positive movement to the roller 6. The strip 7 of paper is adapted to unwind from a roller 14, spaced a proper distance from the roller 6 and parallel therewith. The lower end of the impression-lever 5 is adapted to strike the strip 7 at a point intermediate of the rollers 6 and 14, so as to carry said strip against the type, by means of which the printing is effected.

The impression-lever 5 is preferably of arcuate form and is fulcrumed intermediate of its ends to a bracket-support 15, projecting forward from the rear wall of the casing. A spring 16 serves to normally hold the impression-lever in a predetermined position to be actuated when opening the door 2, so as to properly effect the recording upon the strip.

The currency-receptacles 45 are provided with a plurality of leaves 46, pivoted thereto and provided with tailpieces 47, which are adapted to cooperate with a wheel or drum 48, having parallel grooves for the tailpieces 47 to travel in, whereby a rotary movement is imparted to said drum when the leaves are turned by hand from a vertical to a horizontal position, and vice versa. The shaft 49, carrying the drum 48, is connected by miter-

gearing 50 with a horizontal shaft 51, provided at its rear end with a beveled pinion 52, meshing with a corresponding bevel-pinion 53 at the lower end of a vertical shaft 54, having a pinion 55 at its upper end meshing with cog-gearing 56 of a recording-wheel 57. It will thus be seen that as each leaf is turned from a vertical to a horizontal position after the bill of denominate value has been placed in the receptacle the drum or grooved wheel 48 is actuated and through the connections imparts a corresponding movement to the recording-wheel 53, whereby the type thereon is brought into position for recording the amount on the strip 7 when the cover 2 is thrown open in the manner stated. The leaves 46 are numbered, and hence the amount in any receptacle can be quickly determined at a glance, since each leaf corresponds to a bill covered thereby.

Having thus described the invention, what is claimed as new is—

1. In a registering mechanism of the type described, a series of leaves adapted to receive between them currency of any denominate value, said leaves being consecutively numbered to indicate the monetary value of the currency deposited therein, substantially as set forth.

2. In a registering mechanism of the character described, a series of pivoted leaves adapted to receive between them the currency of denominate value, said leaves being consecutively numbered to designate the amount of the currency inclosed thereby, substantially as specified.

3. In combination with a receptacle, a series of leaves pivoted at one side of the receptacle and adapted to fold therein and to receive between them currency of denominate value, said leaves being consecutively numbered to indicate the sum total of the currency deposited in the receptacle, substantially as specified.

4. In a register of the character described,

a recording mechanism, and a series of leaves adapted to receive between them the currency of denominate value and constructed to actuate the recording mechanism, substantially as specified.

5. In a registering mechanism of the type specified, a recording mechanism, actuating mechanism for the recording mechanism including a pulley and drum having a series of grooves, and a series of leaves adapted to receive between them the currency and adapted to cooperate with the aforesaid grooves of the pulley or drum of the actuating mechanism to set the recording mechanism in operation, substantially as specified.

6. In a registering mechanism of the variety set forth, recording mechanism, actuating mechanism therefor comprising a pulley or drum having grooves and a series of pivoted leaves adapted to receive between them the currency of denominate value and provided with offstanding portions to operate with the aforementioned grooves to effect an operation of the recording mechanism, substantially as described.

7. In a cash-register, a recording mechanism, actuating means therefor including a pulley or drum having parallel grooves, a series of pivoted leaves adapted to receive between them currency of denominate value, and tailpieces projecting from the leaves and adapted to engage with the aforesaid grooves to effect an actuation of the recording mechanism simultaneously with the folding of the leaves over the positive currency, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

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ERNEST T. DERGE. [L. S.]
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