

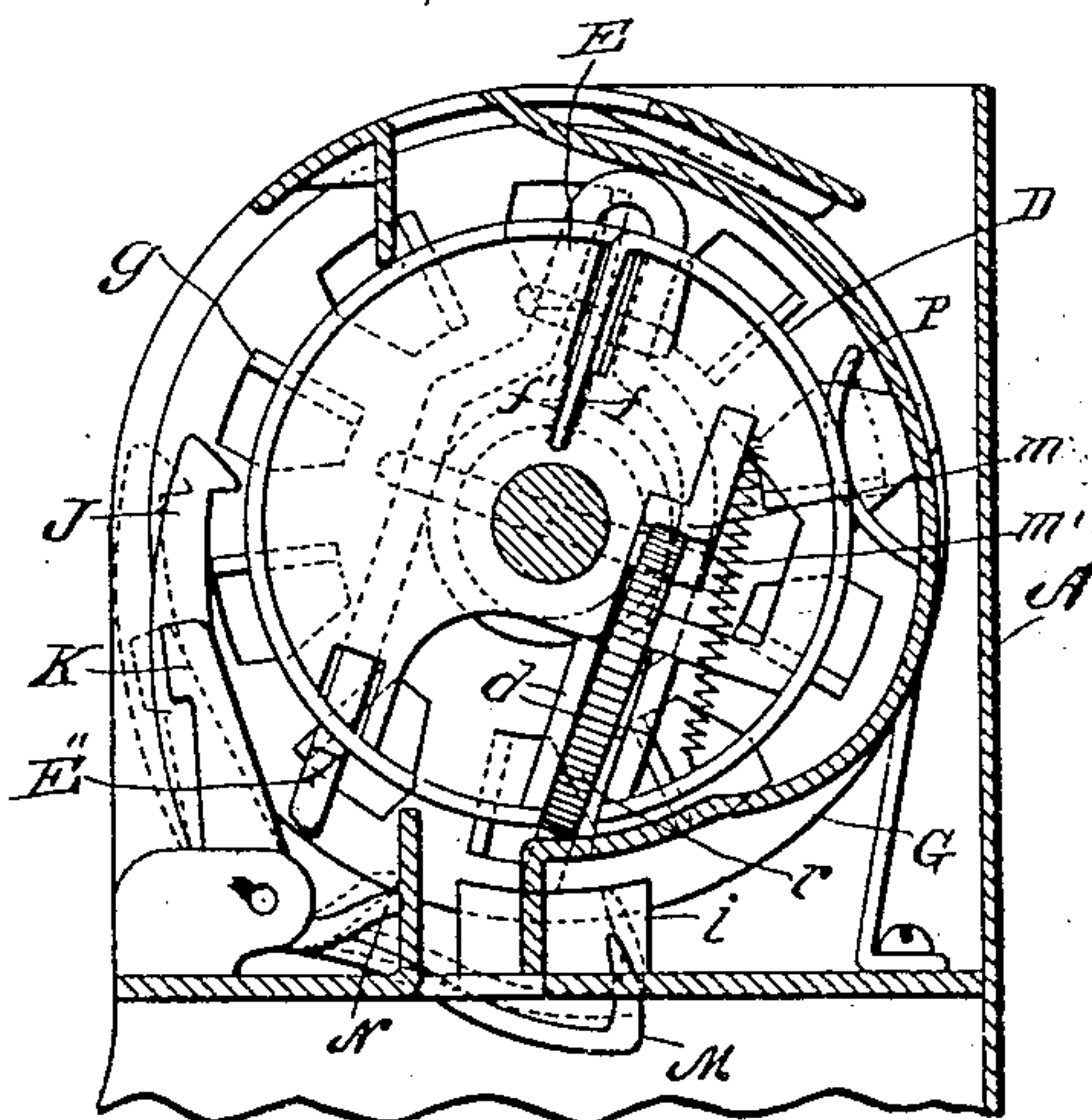
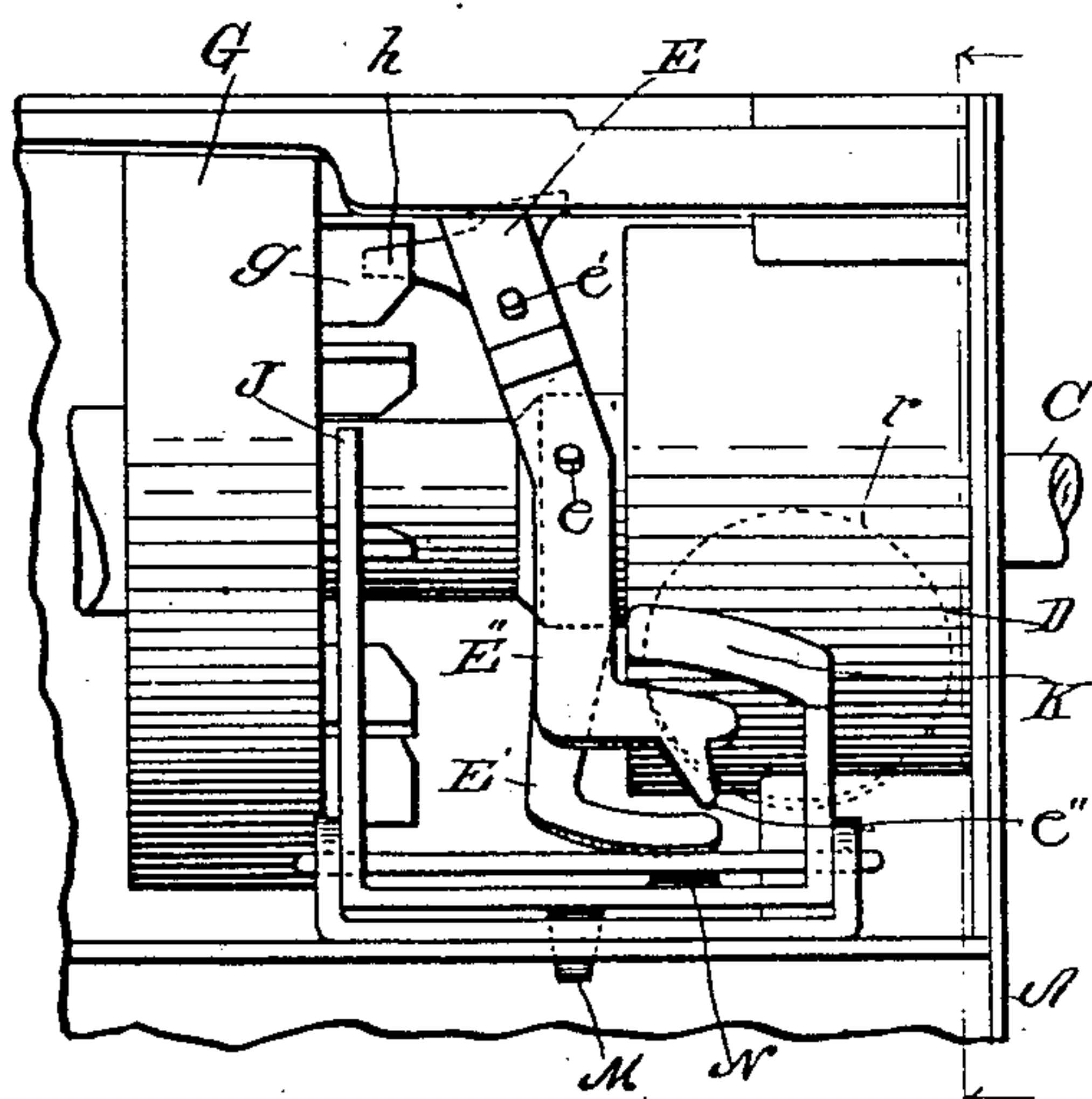
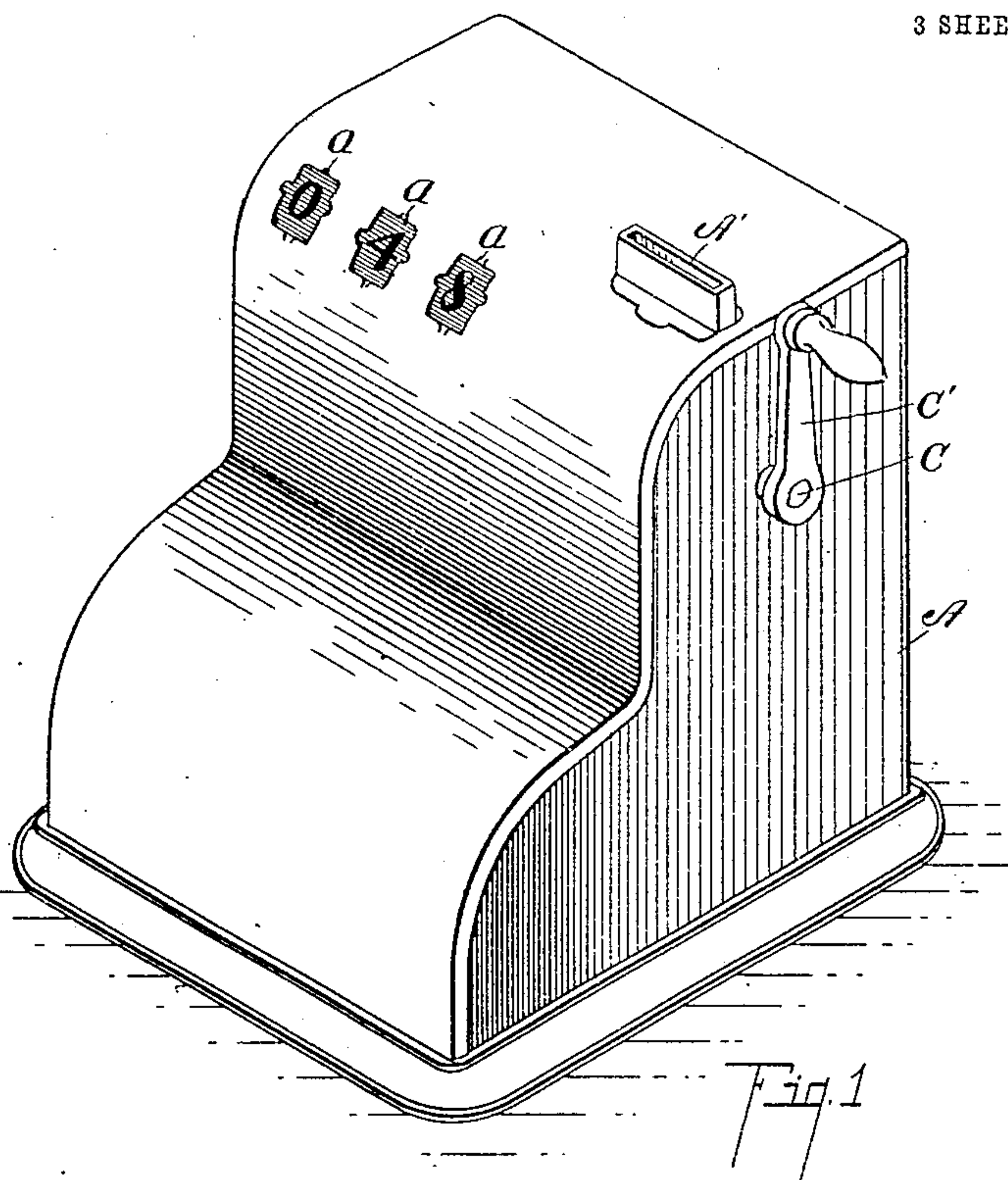
No. 842,853.

PATENTED FEB. 5, 1907.

L. J. BURDICK.
COIN REGISTER.

APPLICATION FILED SEPT. 19, 1903.

3 SHEETS—SHEET 1.



Witnesses:
Lulu G. Greenfield
Annie J. Albor

Inventor,
Leo J. Burdick
By Fred L. Chappell
Att'y.

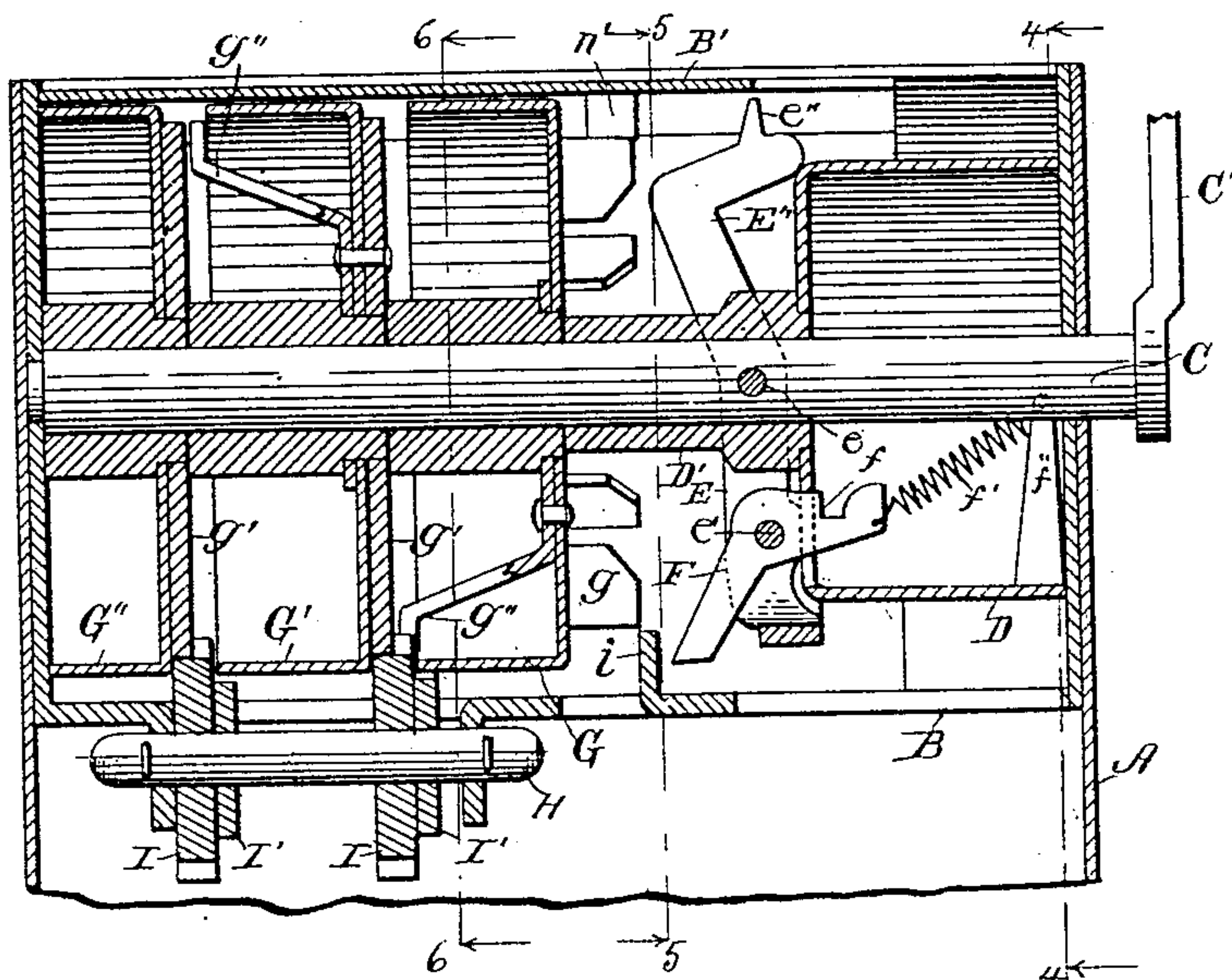
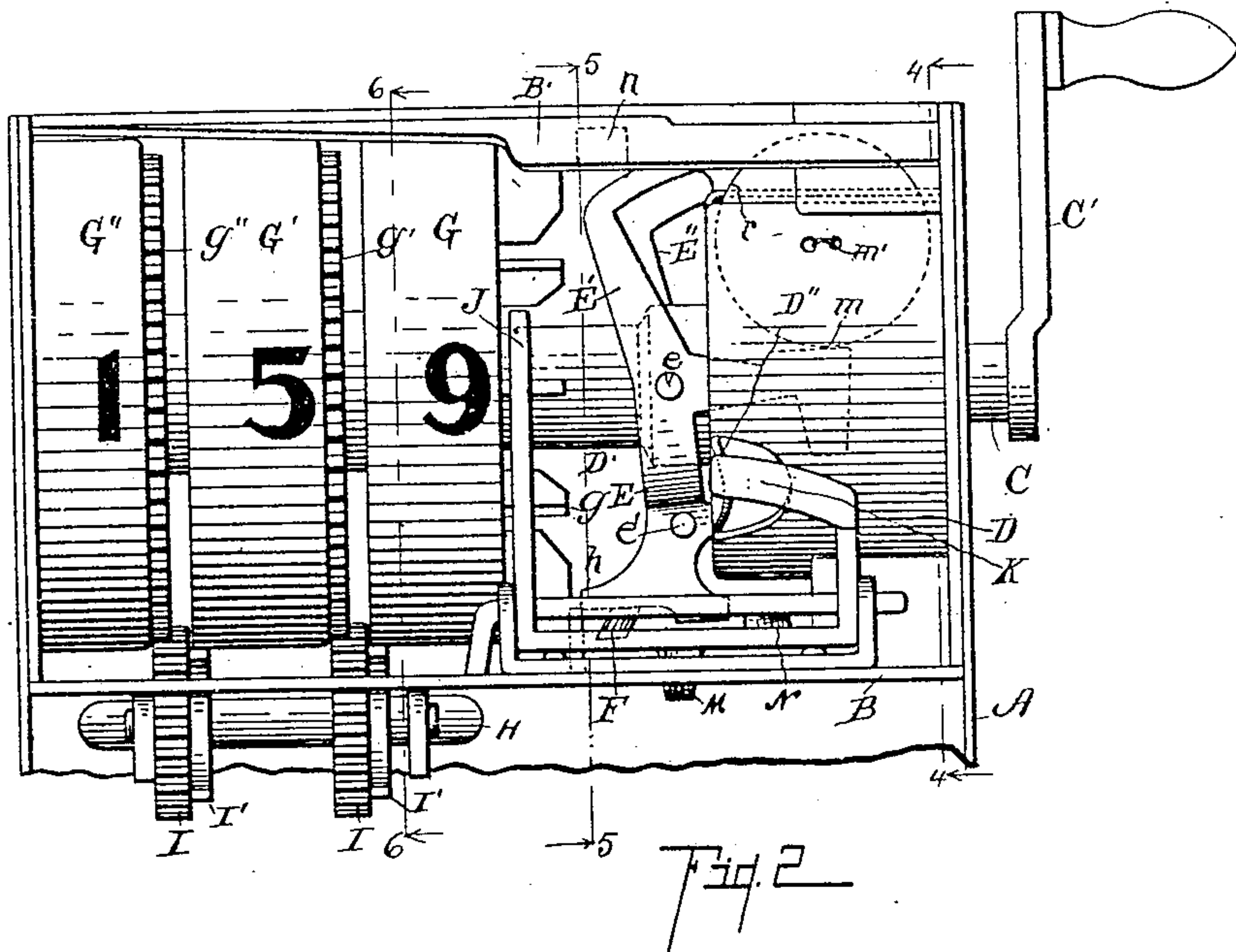
No. 842,853.

PATENTED FEB. 5, 1907.

L. J. BURDICK.
COIN REGISTER.

APPLICATION FILED SEPT. 19, 1903.

3 SHEETS—SHEET 2.



Witnesses:

Otto A. Carl
Ethel A. Teller

Inventor,

Leo J. Burdick
By Fred L. Chappell
Att'y.

No. 842,853.

PATENTED FEB. 5, 1907.

L. J. BURDICK.
COIN REGISTER.

APPLICATION FILED SEPT. 19, 1903.

3 SHEETS—SHEET 3.

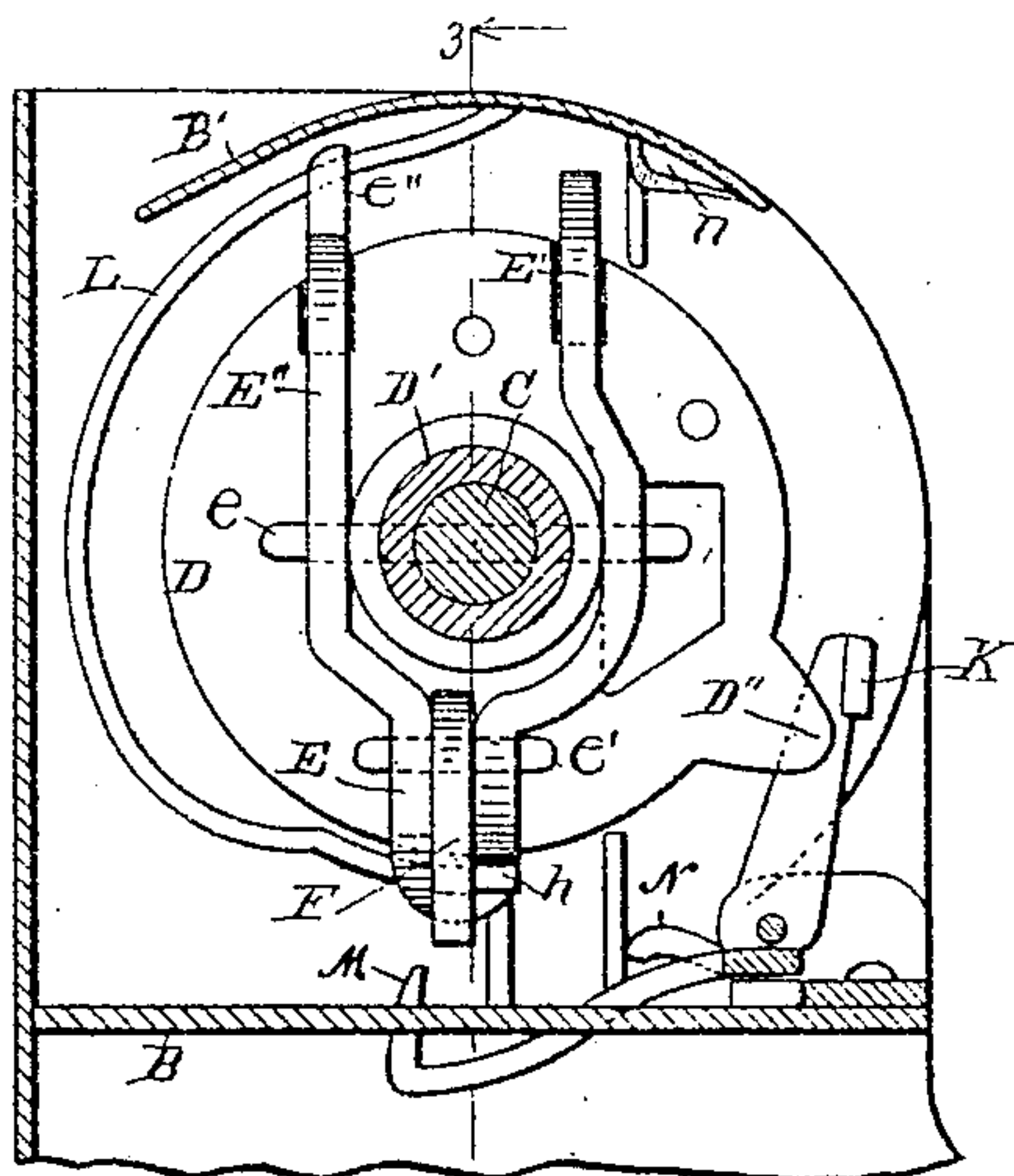


Fig. 5

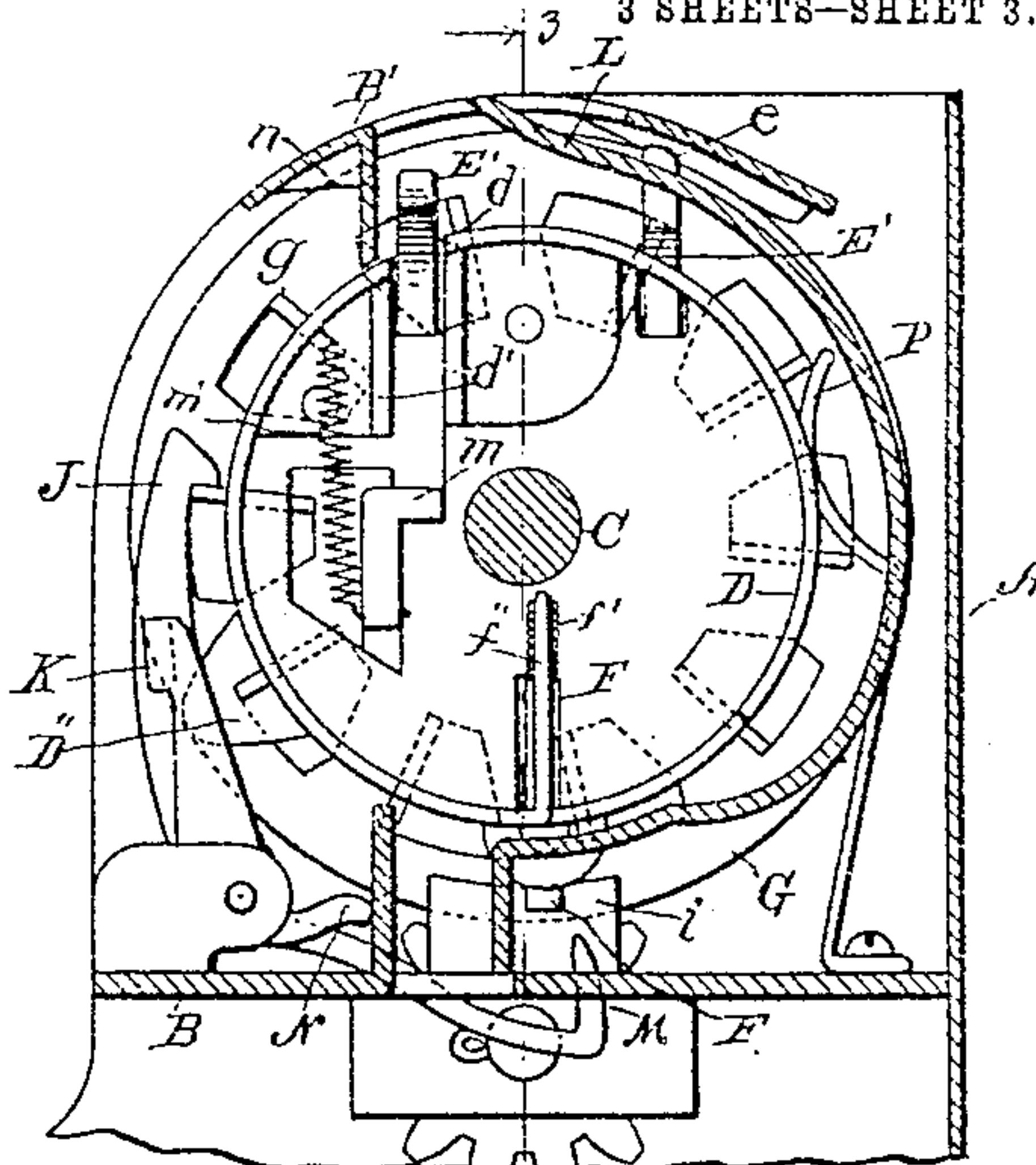


Fig. 4

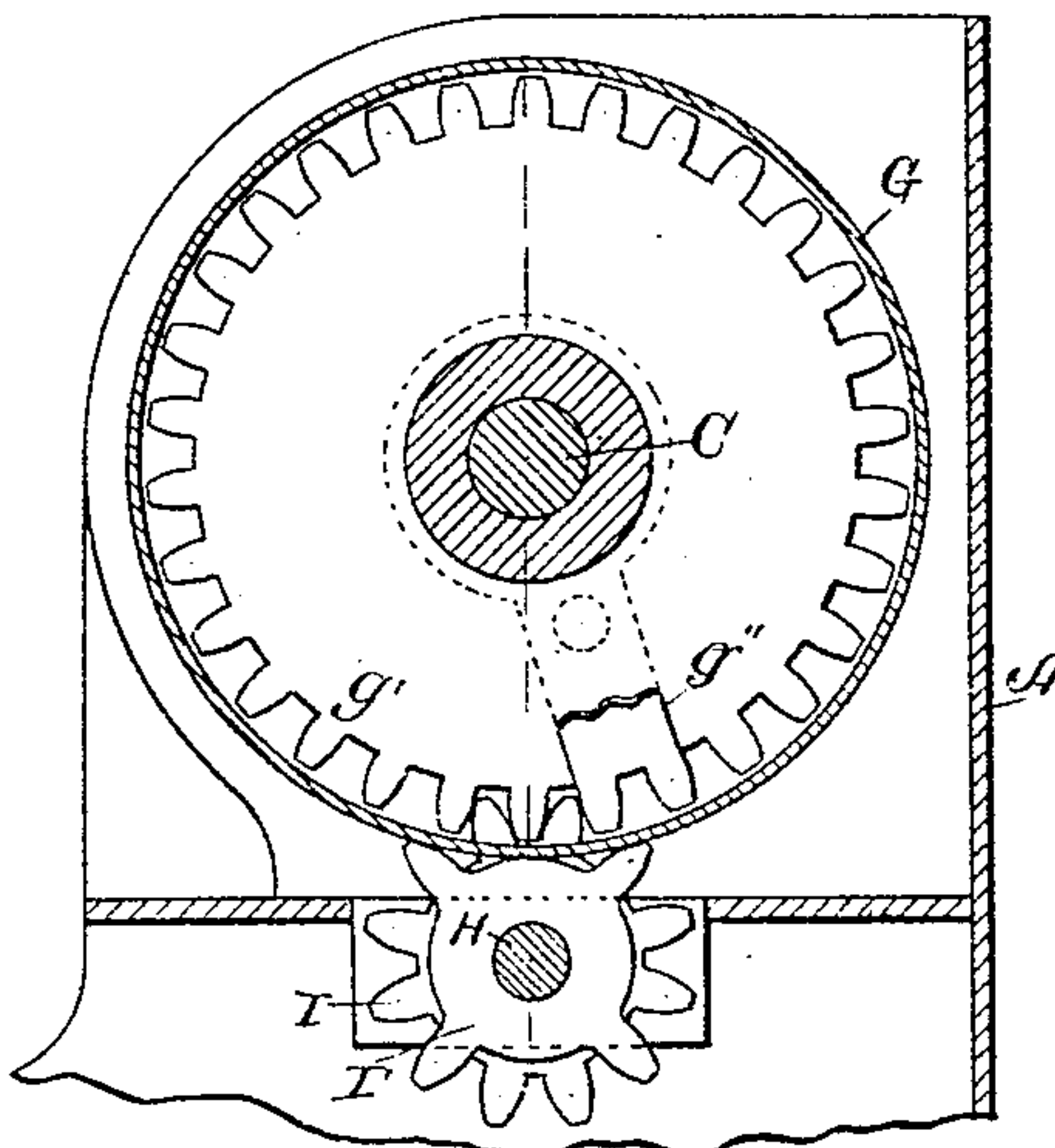


Fig. 6

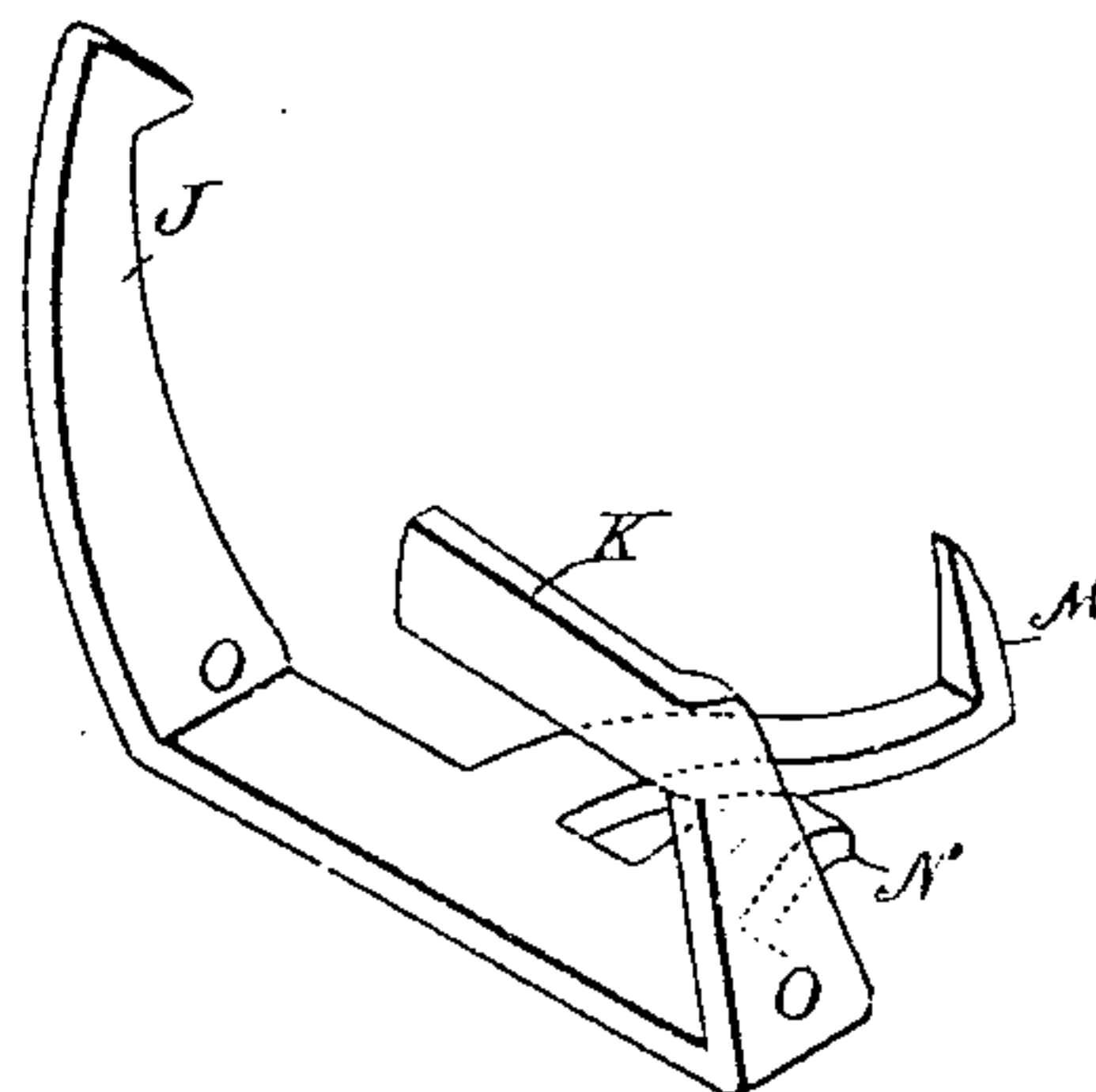


Fig. 7

Witnesses:

Otto C. Carl
Ethel A. Teller

Inventor,

Leo J. Burdick
By Fred L. Chappell
Att'y.

UNITED STATES PATENT OFFICE.

LEO J. BURDICK, OF LOS ANGELES, CALIFORNIA.

COIN-REGISTER.

No. 842,853.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed September 19, 1903. Serial No. 173,849.

To all whom it may concern:

Be it known that I, LEO J. BURDICK, a citizen of the United States, residing at the city of Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Coin-Registers, of which the following is a specification.

This invention relates to improvements in coin-registers.

The objects of this invention are, first, to provide an improved coin-register by which the values of coins of different denominations introduced therein are registered; second, to provide an improved coin-register by which the values of coins of different denominations are registered, which is simple and compact in structure and economical to produce; third, to provide an improved coin-register which is simple and easy to operate and not likely to get out of repair.

Further objects and objects relating to structural details will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined, and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of a structure embodying the features of my invention adapted to a toy savings-bank. Fig. 2 is an enlarged detail front elevation view of the operative mechanism, the front of the casing being removed. Fig. 3 is a detail longitudinal sectional view taken on a line corresponding to lines 3 3 of Figs. 4, 5, and 6, portions being shown in full lines. Fig. 4 is a detail cross-sectional view taken on lines 4 4 of Figs. 2 and 3. Fig. 5 is a detail cross-sectional view taken on lines 5 5 of Figs. 2 and 3. Fig. 6 is a detail cross-sectional view taken on lines 6 6 of Figs. 2 and 3. Fig. 7 is an enlarged perspective view of the locking-dog for the registering-wheels. Fig. 8 is a detail side elevation showing the lever E in engagement with the number-wheels and with the coin in the apparatus and about to be discharged. Fig. 9 is a vertical section taken on a line corresponding to line 9 9 of Fig. 8.

In the drawings, the sectional views are

taken looking in the direction of the little arrows at the ends of the section-lines, and similar letters of reference refer to similar parts throughout the several views.

Referring to the lettered parts of the drawings, the casing A is here represented as a toy savings-bank. The coins are introduced through the coin-chute A'. The casing is provided with suitable windows *a*, through which the amount registered may be read.

Supported within the upper portion of the casing A is a frame B, on which the operative parts of the machine are supported. The operative mechanism is provided with a shield or cover B'. Supported by the frame B and projecting through the side of the casing A is a shaft C, which is provided with a suitable crank C', by which it is actuated. Mounted on the shaft C is a cup-shaped wheel or drum D. This wheel or drum D is preferably formed of sheet metal. The drum D is provided with a projecting hub D', which is secured to the shaft C by the pin *e*.

A lever E is pivotally mounted on the pin *e*, so that it is revolved with the shaft. This lever E is formed of a piece of sheet metal bent into a loop to form arms E' E'', which embrace the hub D'. The lever E is shaped somewhat like a letter S, the advantage of which will appear later.

A locking-dog F is supported on the looped end of the lever E by a pivot *e'*. One end of the dog F projects through a suitable slot in the drum D and is notched at *f* to engage the wall of the drum to lock the lever in its engaging position. The dog F is held under tension by a coiled spring *f'*, which is secured to the inner end of the dog and to the arm *f''*, which is preferably formed by striking a portion of the drum inward. The spring *f'* also tends to return the lever E to its initial position when the dog F is disengaged.

Revolubly mounted on the shaft C is a series of number-wheels G G' G''. The units or lower number-wheel G is provided with laterally-projecting teeth *g*, ten in number, with which the tooth *h* on the end of the lever E is adapted to engage when the lever is in its operative position. The lever E is provided with an arm *m*, projecting inside of the drum D. A coiled spring *m'*, secured to the periphery of the drum and to the arm *m*, tends to hold the same in its normal position. The periphery of the drum D is slot-

842,853

ted at *d* to receive a coin, as is indicated by dotted lines in Fig. 2 at *r*, the inner end of the arm *m* serving as a rest for the coin. The guiding-plates *d'* project inwardly from the slot *d* in the drum to form a holder for the coin and to retain the same upon the arm.

Arranged to the rear of the drum *D* and encircling about one-half thereof is a cam-shaped plate *L*, which the projecting edge of the coin engages as it is carried downwardly by the drum. When the coin passes from the cam-plate, it is discharged from the drum into a suitable receptacle, in this case the bottom of the casing *A*. When the coin engages the cam-plate *L*, it is forced inwardly, thereby actuating the lever *E*, so that the tooth *h* thereon is engaged with one of the teeth *g* on the units number-wheel *G*.

When the lever *E* is thrown forward, the notch *f* in the locking-dog *F* engages the wall of the drum and locks the lever in its engaging position, so that as the shaft is rotated the units number-wheel is rotated.

The cam-shaped plate *L* is shaped so that coins of different sizes actuate the lever *E* at different periods in the movement of the drum—*e. g.*, a one-cent piece actuates the lever to engage a tooth one step in advance of the point of discharge of the coin, so that the units-wheel is actuated one step and the lever released. The five-cent piece is of such size as to actuate the lever at the beginning of the movement of the drum, so that the units-wheel is carried forward until the coin is discharged, which occurs when the drum has completed one-half its revolution, the lever returning to its normal position on the discharging of the coin. To prevent the locking-dog *F* engaging when the lever is released by the discharge of a coin, I provide a cam *n'*, which is arranged on the shield *B'*, which is adapted to engage the dog.

As it is necessary to cause the units registry-wheel to make a complete revolution to secure the proper registry of a ten-cent coin, the lever *E* is not released upon the discharge of the coin, but is released by the tripping-cam *n*, arranged on the cover or shield *B'*. When a ten-cent coin is introduced, the lever *E* is not thrown into engagement with the registry-wheel until just before its discharge and after the locking-dog *F* has passed the cam *n*. This allows a complete revolution of the drum before the lever locking-dog is tripped by the cam, and therefore a complete revolution of the units-wheel, thereby securing proper registry for the ten-cent coin. The arm *E'* on the lever *E* is adapted to project into the coin-slot *d*.

To prevent over-registration, I provide a pivoted locking-dog *J*, adapted to engage the teeth on the units-wheel *G*. The locking-dog *J* is provided with projecting arms *M* and *N*. The arm *M* is provided with an up-turned portion, which lies in the path of the

tooth *e''* on the arm *E''* of the lever *E* when the lever is in its engaging position. This trip is arranged so that the locking-dog is actuated just previous to the disengagement of the lever locking-dog *F* by the releasing-cam *n*, so that when the lever is released and disengaged from the number-wheel the register locking-dog *J* is engaged therewith.

When coins of the size of one-cent or five-cent pieces are introduced, the lever *E* is actuated or thrown farther inward, so that the tripping-tooth *e''* does not engage with the arm *M*, but engages with the arm *N*.

The locking-dog *J* is released by the lug *D''* struck up from the drum *D*, which is adapted to engage the arm *K* on the dog. The lug *D''* is so placed relative to the coin-slot *d* in the drum that when the slot is in position to receive a coin the lug is in engaging position with the arm *K*, so that as soon as the drum is actuated the register-wheel lock is released.

The number-wheels *G G' G''* are connected by a suitable gear-train. The number-wheels are preferably formed of sheet metal, cup-shaped in form and mounted on suitable hubs. The number-wheels *G' G''* are provided with gear *g' g''*, which are adapted to mesh with the pinions *I* revolvably mounted on the shaft *H*. The number-wheels *G G'* are provided with engaging members *g''*. These engaging members are adapted to engage the pinions *I'* as the number-wheels are revolved, thereby advancing the succeeding number-wheel one step at each revolution of the preceding number-wheel. Each number-wheel is provided with numerals from "0" to "9."

To prevent the manipulation of the lever *E* through the coin-chute to throw the same into engagement with the registry-wheel, I provide a stop *i* opposite the coin-chute, so that it is impossible to manipulate the lever when in this position to engage the same without the introduction of a coin.

I apply tension to the units-wheel *G* by a spring *F*, which is secured to the frame *B* and the free end of which is curved to engage the teeth on the number-wheel *G*.

With the parts thus arranged they are substantially all formed of sheet metal and are therefore very economical to produce and comparatively light.

I have illustrated and described my improved coin-register as applied to a toy registering-bank. It is, however, evident that it is applicable for various uses. The structure I have illustrated is adapted for the use of three coins only—that is, the one-cent, five-cent, and ten-cent pieces. It is evident, however, that the principle of operation is applicable to coins of other denominations. The same may be easily adapted for a check register or the like without departing from my invention.

I have illustrated and described my in-

proved coin-register in the form preferred by me on account of economy of manufacture and durability in use. I am aware, however, that it is capable of very great structural variation without departing from my invention.

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

1. In a register mechanism, the combination of a suitable casing containing a coin-slot for the introduction of coins; a frame B supported within said casing; a shaft C supported on said frame and projecting through said casing; a suitable operating-crank for said shaft; a drum-like wheel D secured to said shaft; a coin-slot *d* in said drum adapted to register with the coin-slot in said casing; a lever E having arms *E'* *E''* pivotally supported on said shaft, said arm *E'* being adapted to enter said coin-slot *d*; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot *d*; plates *d'* *d''* coacting with said arm *m* to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a series of register-wheels, the units register-wheel G having laterally-projecting teeth *g* thereon; suitable gear connections for said register-wheels; a cam-plate L arranged to the rear of and partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with the teeth *g* on said register-wheel G; tripping-cams *n n'* for said lever locking-dog F; a locking-dog J for said units register-wheel G, having arms M, N, K thereon; an engaging tooth *e''* on the arm *E''* of said lever E, adapted to engage said arms M, N, to actuate the said locking-dog J; a lug D'' on said drum adapted to engage said arm K to release said locking-dog J; and a stop *i* to prevent the actuation of said lever E through said coin-slot in said casing, all coacting for the purpose specified.
2. In a register mechanism, the combination of a suitable casing containing a coin-slot for the introduction of coins; a frame B supported within said casing; a shaft C supported on said frame and projecting through said casing; a suitable operating-crank for said shaft; a drum-like wheel D secured to said shaft; a coin-slot *d* in said drum adapted to register with the coin-slot in said casing; a lever E having arms *E'* *E''* pivotally supported on said shaft, said arm *E'* being adapted to enter said coin-slot *d*; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said

lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot *d*; plates *d'* *d''* coacting with said arm *m* to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a series of register-wheels, the units register-wheel G having laterally-projecting teeth *g* thereon; suitable gear connections for said register-wheels; a cam-plate L arranged to the rear of and partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with the teeth *g* on said register-wheel G; tripping-cams *n n'* for said lever locking-dog F; a locking-dog J for said units register-wheel G, having arms M, N, K thereon; an engaging tooth *e''* on the arm *E''* of said lever E, adapted to engage said arms N M to actuate the said locking-dog J; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J, all coacting for the purpose specified.

3. In a register mechanism, the combination of a suitable casing containing a coin-slot for the introduction of coins; a frame B supported within said casing; a shaft C supported on said frame and projecting through said casing; a suitable operating-crank for said shaft; a drum-like wheel D secured to said shaft; a coin-slot *d* in said drum adapted to register with the coin-slot in said casing; a lever E having an arm *E''* pivotally supported on said shaft; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot *d*; plates *d'* *d''* coacting with said arm *m* to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a series of register-wheels, the units register-wheel G having laterally-projecting teeth *g* thereon; suitable gear connections for said register-wheels; a cam-plate L arranged to the rear of and partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with the teeth *g* on said register-wheel G; tripping-cams *n n'* for said lever locking-dog F; a locking-dog J for said units register-wheel G, having arms M N K thereon; an engaging tooth *e''* on the arm *E''* of said lever E, adapted to engage said arms M N to actuate the said locking-dog J; a lug D'' on said drum adapted to engage said arm K to release said locking-dog J; and a stop *i* to prevent the actuation of said lever E through said coin-slot in said casing, all coacting for the purpose specified.
4. In a register mechanism, the combination of a suitable casing containing a coin-

130

slot for the introduction of coins; a frame B supported within said casing; a shaft C supported on said frame and projecting through said casing; a suitable operating-crank for said shaft; a drum-like wheel D secured to said shaft; a coin-slot *d* in said drum adapted to register with the coin-slot in said casing; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot *d*; plates *d'* *d'* coacting with said arm *m* to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a series of register-wheels, the units register-wheel G having laterally-projecting teeth *g* thereon; suitable gear connections for said register-wheels; a cam-plate L arranged to the rear of and partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with the teeth *g* on said register-wheel G; tripping-cams *n n'* for said lever locking-dog F; a locking-dog J for said units register-wheel G, having arms M N K thereon; an engaging tooth *e''* on the arm E'' of said lever E, adapted to engage said arms M N to actuate the said locking-dog J; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J, all coacting for the purpose specified.

5. In a register mechanism, the combination of a suitable casing containing a coin-slot for the introduction of coins; a frame B supported within said casing; a shaft C supported on said frame and projecting through said casing; a suitable operating-crank for said shaft; a drum-like wheel D secured to said shaft; a coin-slot *d* in said drum adapted to register with the coin-slot in said casing; a lever E; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot *d*; plates *d'* *d'* coacting with said arm *m* to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a series of register-wheels, the units register-wheel G having laterally-projecting teeth *g* thereon; suitable gear connections for said register-wheels; a cam-plate L arranged to the rear of and partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with the teeth *g* on said register-wheel G; tripping-cams *n n'* for said lever locking-dog F; and a

stop *i* to prevent the actuation of said lever E through said coin-slot in said casing, all coacting for the purpose specified.

6. In a register mechanism, the combination of a suitable casing containing a coin-slot for the introduction of coins; a frame B supported within said casing; a shaft C supported on said frame and projecting through said casing; a suitable operating-crank for said shaft; a drum-like wheel D secured to said shaft; a coin-slot *d* in said drum adapted to register with the coin-slot in said casing; a lever E having arms E' E'' pivotally supported on said shaft, said arm E' being adapted to enter said coin-slot *d*; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot *d*; plates *d'* *d'* coacting with said arm *m* to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a series of register-wheels, the units register-wheel G having laterally-projecting teeth *g* thereon; suitable gear connections for said register-wheels; a cam-plate L arranged to the rear of and partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with the teeth *g* on said register-wheel G; and tripping-cams *n n'* for said lever locking-dog F, all coacting for the purpose specified.

7. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot *d* in said drum; a lever E having arms E' E'' pivotally supported on said shaft, said arm E' being adapted to enter said coin-slot *d*; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch *f* therein; a tension-spring *f'* for said locking-dog F secured within said drum; an arm *m* on said lever E projecting into said drum in position to be engaged by a coin introduced into said slot *d*; plates *d'* *d'* coacting with said arm to form a coin-holder; a spring *m'* secured to said arm *m* and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; tripping-cams *n n'* for said lever locking-dog F; a locking-dog J for said register mechanism, having arms M N K thereon; an engaging tooth *e''* on the arm E'' of said lever E, adapted to engage said arms M N to actuate said locking-dog J; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J, all coacting for the purpose specified.

8. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d'' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; tripping-cams n n' for said lever locking-dog F ; a locking-dog J for said register mechanism, having arms M N K thereon; an engaging tooth e'' on the arm E'' of said lever E , adapted to engage said arms M N to actuate said locking-dog J ; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J , all coacting for the purpose specified.

9. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms E' E'' pivotally supported on said shaft, said arm E' being adapted to enter said coin-slot d ; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d'' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and tripping-cams n n' for said lever locking-dog F , all coacting for the purpose specified.

10. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d'' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing

said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and tripping-cams n n' for said lever locking-dog F ; all coacting for the purpose specified.

11. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms E' E'' pivotally supported on said shaft, said arm E' being adapted to enter said coin-slot d ; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d'' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; tripping-cams n n' for said lever locking-dog F ; a locking-dog J for said register mechanism, having arms M N K thereon; an engaging tooth e'' on the arm E'' of said lever E , adapted to engage said arms M N to actuate said locking-dog J ; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J , all coacting for the purpose specified.

12. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms E' E'' pivotally supported on said shaft, said arm E'' being adapted to enter said coin-slot d ; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d'' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and tripping-cams n n' for said lever locking-dog F , all coacting for the purpose specified.

13. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d'' coacting with said

arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and tripping-cams $n n'$ for said lever locking-dog F , all coacting for the purpose specified.

14. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms $E' E''$ pivotally supported on said shaft, said arms E' being adapted to enter said coin-slot d ; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; tripping-cams $n n'$ for said lever locking-dog F ; a locking-dog J for said register mechanism, having arms $M N K$ thereon; an engaging tooth e'' on the arm E'' of said lever E , adapted to engage said arms $M N$ to actuate said locking-dog J ; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J , all coacting for the purpose specified.

15. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms $E' E''$ pivotally supported on said shaft said arm E' being adapted to enter said coin-slot d ; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; tripping-cams $n n'$ for said lever locking-dog F ; a locking-dog J for said register mechanism, having arms $M N K$ thereon; an engaging tooth e'' on the arm E'' of said lever E , adapted to engage said arms $M N$ to actuate said locking-dog J ; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J , all coacting for the purpose specified.

16. In a register mechanism, the combination of a register mechanism; a shaft; a

drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; tripping-cams $n n'$ for said lever locking-dog F ; a locking-dog J for said register mechanism, having arms $M N K$ thereon; an engaging tooth e'' on the arm E'' of said lever E , adapted to engage said arms $M N$ to actuate said locking-dog J ; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J , all coacting for the purpose specified.

17. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and tripping-cams $n n'$ for said lever locking-dog F , all coacting for the purpose specified.

18. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms $E' E''$ pivotally supported on said shaft, said arm E' being adapted to enter into said coin-slot d ; a locking-dog F carried by said lever E , arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates $d' d'$ coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said

register mechanism; a tripping-cam for said lever locking-dog F; a locking-dog J for said register mechanism, having arms M, N, K thereon; an engaging tooth e'' on the arm E'' of said lever E, adapted to engage said arms M, N to actuate said locking-dog J; and a lug D'' on said drum adapted to engage said arm K to release said locking-dog J, all coacting for the purpose specified.

19. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and a tripping-cam for said lever locking-dog F; all coacting for the purpose specified.

20. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having arms E' E'' pivotally supported on said shaft, said arm E' being adapted to enter said coin-slot d ; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch f therein; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; plates d' d' coacting with said arm to form a coin-holder; a spring m' secured to said arm m and to said drum; a cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and a tripping-cam for said lever locking-dog F, all coacting for the purpose specified.

21. In a register mechanism, the combination of a register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot d in said drum; a lever E having an arm E'' pivotally supported on said shaft; a locking-dog F carried by said lever E, arranged through a suitable slot in said drum, having a notch f therein; a tension-spring f' for said locking-dog F secured within said drum; an arm m on said lever E projecting into said drum in position to be engaged by a coin introduced into said coin-slot d ; a spring m' secured to said arm m and to said drum; a

cam-plate L partially embracing said drum, adapted to engage the coins as they are carried by said drum, whereby said lever E is actuated to throw the same into engagement with said register mechanism; and a tripping-cam for said lever locking-dog F, all coacting for the purpose specified.

22. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; a tension-spring for said lever; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; tripping-cams for said lever locking-dog; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said registry-mechanism locking-dog, for the purpose specified.

23. In a registering mechanism, the combination of a suitable register mechanism; a shaft; drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; a tension-spring for said lever; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; and tripping-cams for said lever locking-dog, for the purpose specified.

24. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; a tension-spring for said lever; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a trip adapted to release said lever locking-dog as the shaft is revolved; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said registry-mechanism locking-dog, for the purpose specified.

25. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a tension-spring for said lever; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said registry-mechanism locking-dog, for the purpose specified.

26. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; a tension-spring for said lever; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; and a trip adapted to release said lever locking-dog as the shaft is revolved, for the purpose specified.

27. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a tension-spring for said lever; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft, for the purpose specified.

28. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism

at a predetermined point in the movement of said shaft; tripping-cams for said lever locking-dog; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said registry-mechanism locking-dog, for the purpose specified.

29. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said register-mechanism locking-dog, for the purpose specified.

30. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; and tripping-cams for said lever locking-dog, for the purpose specified.

31. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft, for the purpose specified.

32. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as

it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a trip adapted to release said lever locking-dog as the shaft is revolved; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said registry-mechanism locking-dog, for the purpose specified.

33. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a locking-dog for said registry mechanism adapted to be actuated by said lever; and an arm on said drum adapted to release said registry-mechanism locking-dog, for the purpose specified.

34. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; a locking-dog for said lever carried thereby; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; and a trip adapted to release said lever locking-dog as the shaft is revolved, for the purpose specified.

35. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a drum-like wheel secured to said shaft; a coin-slot in said drum; a lever pivotally supported on said shaft; an arm on said lever projecting into said drum in position to be engaged by a coin introduced into said slot; a cam-plate partially embracing said drum, adapted to engage the coin as it is carried by said drum, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; for the purpose specified.

36. In a registering mechanism, the combination of a suitable register mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said

holder; a locking-dog for said lever carried thereby; a tension-spring for said lever; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; tripping-cams $n n'$ for said lever locking-dog; a locking-dog for said registry mechanism adapted to be actuated by said lever; a trip on said coin-holder adapted to release said register-mechanism locking-dog, for the purpose specified.

37. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said holder; a locking-dog for said lever carried thereby; a tension-spring for said lever; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a trip adapted to release said lever locking-dog as the shaft is revolved; a locking-dog for said registry mechanism adapted to be actuated by said lever; a trip on said coin-holder adapted to release said registry-mechanism locking-dog, for the purpose specified.

38. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said holder; a tension-spring for said lever; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a locking-dog for said registry mechanism adapted to be actuated by said lever; and a trip on said coin-holder adapted to release said registry-mechanism locking-dog, for the purpose specified.

39. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said holder; a locking-dog for said lever carried thereby; a tension-spring for said lever; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; tripping-cams $n n'$ for said lever locking-dog; for the purpose specified.

40. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted

ed to be engaged by a coin carried by said holder; a locking-dog for said lever carried thereby; a tension-spring for said lever; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft; a trip adapted to release said lever locking-dog as the shaft is revolved, for the purpose specified.

41. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft; adapted to be engaged by a coin carried by said holder; a tension-spring for said lever; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said registry mechanism at a predetermined point in the movement of said shaft, for the purpose specified.

42. In a registering mechanism, the combination of a suitable registry mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said holder; a cam-plate adapted to engage a coin as it is carried by said holder, whereby said lever is actuated to throw the same into engagement with said register mechanism at a predetermined point in the movement of said shaft; a trip adapted to disengage said lever from said register mechanism as the shaft is revolved; a locking-dog for said register mechanism, adapted to be actuated by the said lever; and a trip on said coin-holder adapted to release said register locking-dog, for the purpose specified.

43. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said holder; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft; a trip adapted to disengage said lever from said register mechanism as the shaft is revolved, for the purpose specified.

44. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft adapted to be engaged by a coin carried by said holder; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft; a locking-dog for said register mechanism adapted to be actuated by the

said lever; and a trip on said coin-holder adapted to release said register locking-dog, for the purpose specified.

45. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a coin-holder carried by said shaft; a lever pivotally supported on said shaft, adapted to be engaged by a coin carried by said holder; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft, for the purpose specified.

46. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a lever adapted to engage said registering mechanism; a coin-holder pivotally supported on said shaft; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft; a trip adapted to disengage said coin-holder from said lever as said shaft is revolved; a locking-dog for said register mechanism adapted to be actuated by said lever; and a trip on said coin-holder adapted to release said register locking-dog, for the purpose specified.

47. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a lever adapted to engage said registering mechanism; a coin-holder pivotally supported on said shaft; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft; a trip adapted to disengage said coin-holder from said lever as the shaft is revolved; for the purpose specified.

48. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a lever adapted to engage said registering mechanism; a coin-holder pivotally supported on said shaft; a cam-plate adapted to engage the coin as it is carried by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft; a locking-dog for said register mechanism adapted to be released by said coin-holder, for the purpose specified.

49. In a registering mechanism, the combination of a suitable registering mechanism; a shaft; a lever adapted to engage said registering mechanism; a coin-holder pivotally supported on said shaft; and a cam-plate arranged to engage the coin as it is carried forward by said holder, whereby said lever is actuated to throw it into engagement with said register mechanism at a predetermined

point in the movement of said shaft, for the purpose specified.

50. In a registering mechanism, the combination of a suitable registering mechanism; 5 a shaft; a lever adapted to engage said registering mechanism; a coin holder on said shaft; and a cam-plate arranged to engage the coin as it is carried forward by said holder, whereby said lever is actuated to 10 throw it into engagement with said register mechanism at a predetermined point in the movement of said shaft, for the purpose specified.

51. In a registering mechanism, the combination of a suitable registering mechanism; 15

means for actuating the same; a coin-holder; a cam-plate arranged to engage a coin as it is carried forward by said holder whereby said registering actuating means is engaged with the registering mechanism at a predetermined point in the movement thereof, for 20 the purpose specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

LEO J. BURDICK. [L. s.]

Witnesses:

E. A. DE BLOIS,
G. M. DAVEY.