

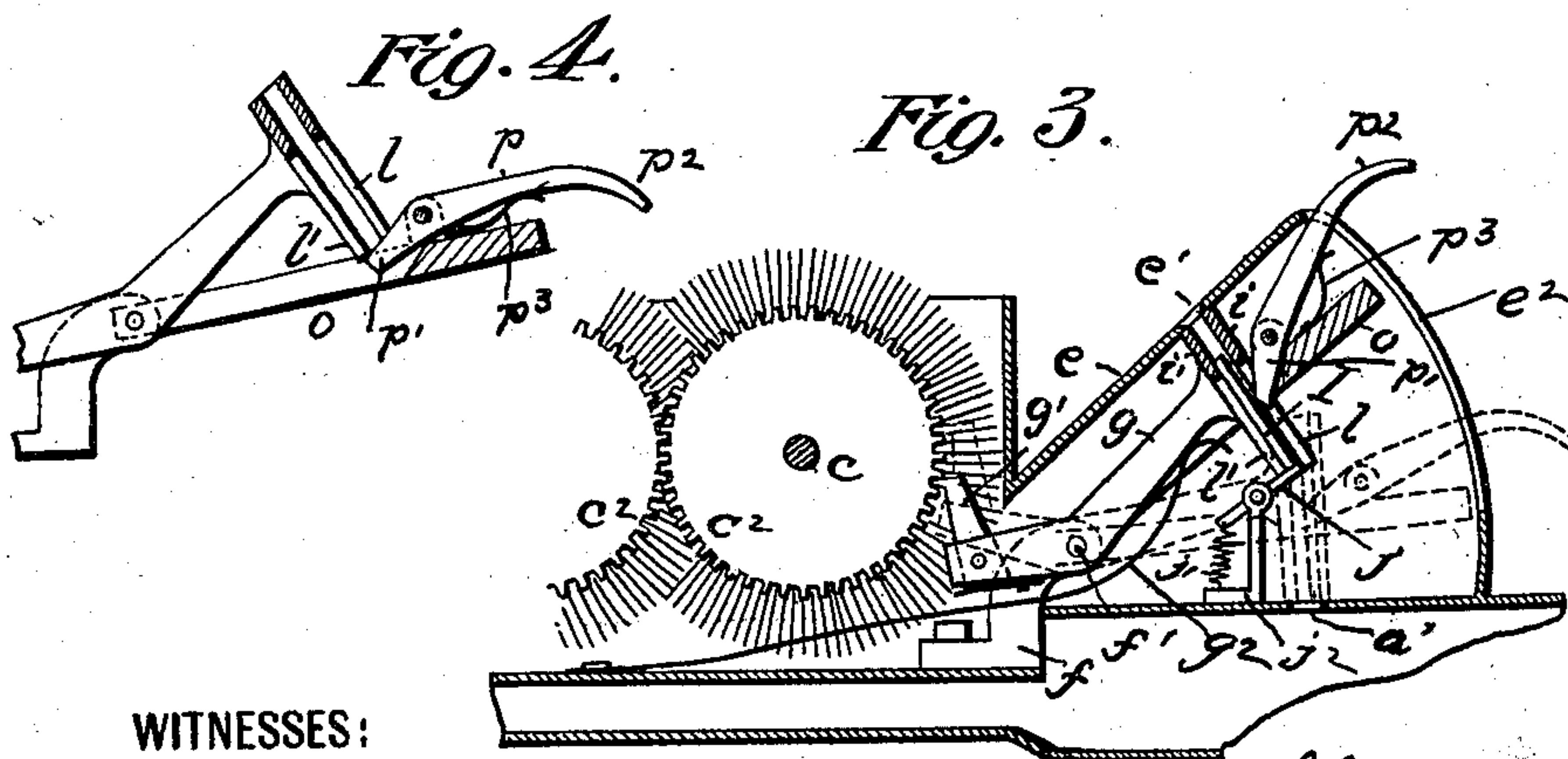
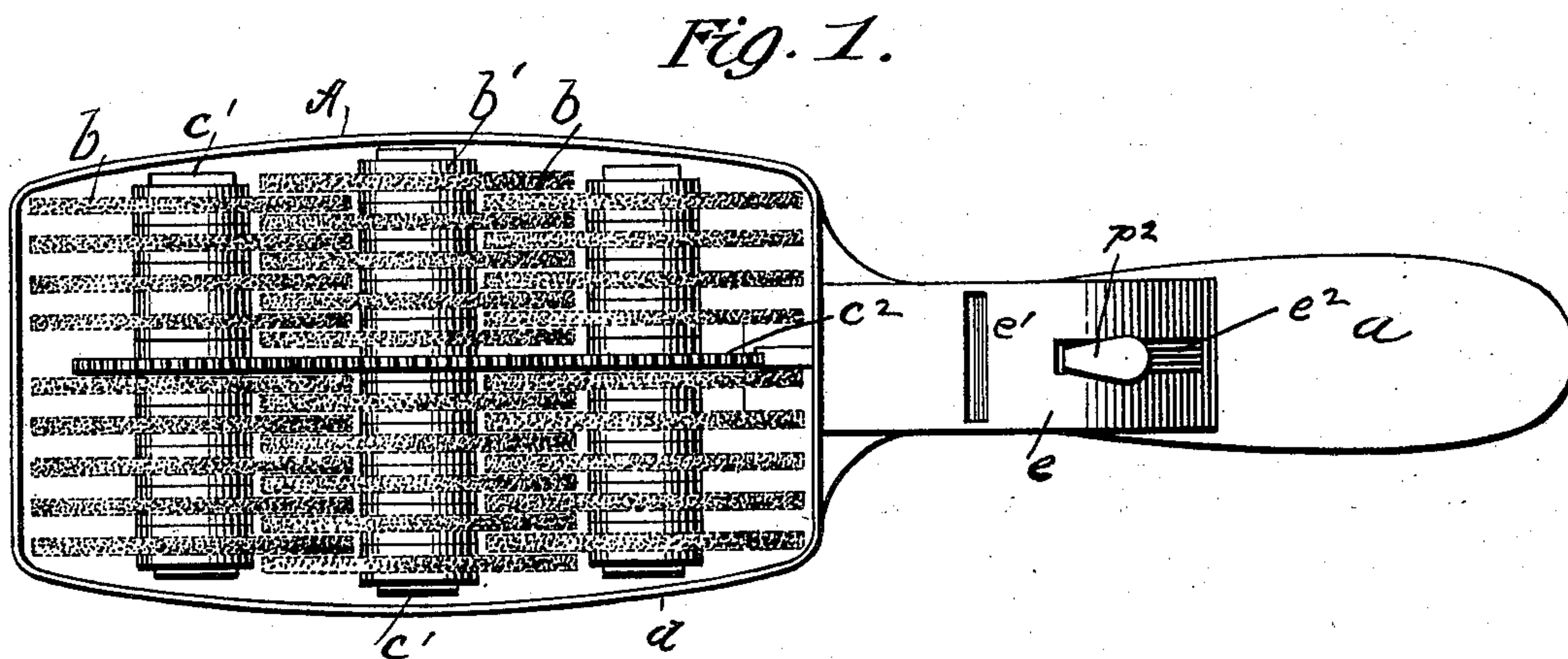
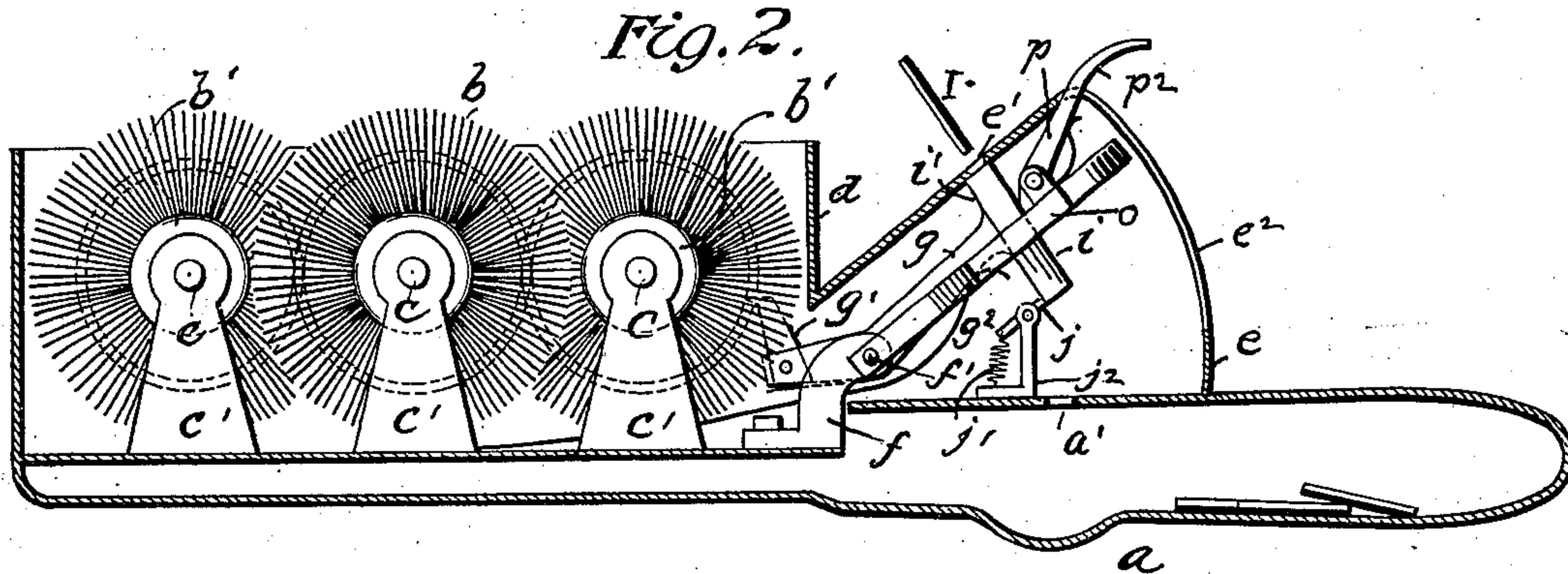
No. 695,505.

Patented Mar. 18, 1902.

C. M. STINER.
COIN OPERATED HAIR BRUSH.

(Application filed July 27, 1901.)

(No Model.)



WITNESSES:

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CLARENCE M. STINER, OF NEW YORK, N. Y.

COIN-OPERATED HAIR-BRUSH.

SPECIFICATION forming part of Letters Patent No. 695,505, dated March 18, 1902.

Application filed July 27, 1901. Serial No. 69,890. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE M. STINER, a citizen of the United States, residing at the city of New York, in the borough of Manhattan and State of New York, have invented certain new and useful Improvements in Coin-Operated Hair-Brushes, of which the following is a full, clear, and exact description.

This invention is a hair-brush combined with a coin-operated device by which the bristles can be moved to bring fresh ones into position for use.

In carrying out the invention the bristles are radially attached to hubs to form wheels and the wheels are interconnected by gearing, which can be rotated a limited extent upon the insertion of a coin and the subsequent manipulation of the device to bring fresh segments or portions of the wheels into position to be used while carrying the previously-used sections into the case or housing of the brush. A brush of this character is useful in public places—such as toilet-rooms of public houses, railway-cars, &c.—and furnishes a means whereby each person can have the use of a fresh and clean hair-brush at a nominal expense.

The invention will be described in detail with reference to the accompanying drawings, in which—

Figure 1 is a plan of the face of the brush; Fig. 2, a side elevation with the side of the casing removed; Fig. 3, a partial sectional view, and Fig. 4 a view illustrative of the operation.

The frame of the hair-brush is of somewhat similar shape to the ordinary hair-brush; but the handle *a* is hollow to furnish a receptacle for coin, which receptacle may extend also into the back of the brush, as shown in Fig. 2. The bristles *b* of the brush are attached to hubs *b'*, which are mounted on horizontal parallel shafts *c*. The shafts are mounted in brackets *c'*, attached to the back of the brush. The three shafts are connected together by gearing *c²*, so that when one is rotated the others will be also. The brush-wheels are preferably surrounded by a flange or casing *d*, which, as shown, is open, but may be closed with a cover-plate having slots, through which the edges of the brush-wheels may project.

On the handle is formed a casing *e* for a coin-operated mechanism. Inside of the casing is fixed a bracket *f*, carrying a horizontal pivot-pin *f'*, on which is hung a lever *g*. This lever carries a pawl *g'*, engaging with one of the gear-wheels *c'* and adapted to rotate the same a prescribed distance in one direction when the outer end of the lever is swung in one direction. A spring *g²* bears against the lever to return it to its normal position after having been moved. The outer end of the lever is provided with a passage or chute for a coin. This passage is formed by two parallel plates *i i'*, arranged substantially at right angles to the lever, between which the coin (indicated at *I*) is adapted to pass. When in its normal position, the upper end of this chute is in line with a coin-slot *e'* in the casing *e*. When in this position also, the end of a short lever *j* is held across the lower end of the chute a little to one side of the center in order to retain a coin that may be inserted in the chute. This lever is held in place by a spring *j'* and is pivoted to a bracket *j²*. The front and back plates of the chute are each provided with a slot *l* and *l'*, respectively, directly opposite each other and in the middle of the plates. When a coin is in the chute, it intercepts the passage between the two slots. Pivoted to the pin *f'* is an operating-lever *o* in the form of a fork embracing the lever *g*. At its outer end this lever has pivoted to it another lever *p*, having a toe *p'*, adapted to enter the slot in the outer plate of the coin-chute. The lever *p* also carries a thumb-piece *p²*, which extends outside of the casing *e*, through a slot *e²*, in position to be pressed upon by the thumb or finger of the operator. A spring *p³* holds the lever in its normal position clear of the coin-chute. The hollow handle *a* is provided with a coin-opening *a'*, with which the coin-chute registers when it has been moved to its extreme position in rotating the brushes.

The operation is as follows: When a person desires to obtain fresh bristles, he will insert a coin of the proper denomination into the slot *a'*. The coin falls freely through the slot until it is arrested by the lever *j*. The operator then presses upon the thumb-piece *p²*, whereupon the toe *p'* is moved through the slot in the outer plate and against the

coin in the chute, with which it makes a frictional engagement sufficient to carry the lever *g* downward simultaneously with the downward movement of the thumb-piece and the lever *o*. A full stroke of the levers rotates the brush-wheels a predetermined extent, causing them to present fresh bristles for use. In making this motion the lever *j* drags over the back of the chute and the coin is free to fall out of the chute and into the hollow handle as soon as the thumb-piece is released upon the completion of the stroke. On the return stroke the pawl *g'* slips over the gearing and the bristles remain stationary. If the thumb-piece is moved without first inserting a coin, the toe *p'* simply passes through both slots of the chute-plates without engaging with or moving the lever *g*, and it is only when a coin is inserted in the chute that the two levers will move together. I do not confine my invention to any particular coin-operated mechanism, since I believe I am the first to employ any mechanism of this character for renewing the bristles of a hair-brush.

Having described my invention, I claim—

1. The combination with a hair-brush having shiftable bristles, of a coin-operated device, whereby the said bristles may be shifted.
2. A hair-brush provided with rotatable wheels carrying bristles, in combination with a coin-operated device for rotating said wheels.
3. A hair-brush provided with rotatable wheels carrying bristles, gearing connecting

said wheels together, and a coin-operated device adapted to move said gearing.

4. A hair-brush having movable bristles, in combination with means for moving the same, whereby fresh bristles may be obtained when desired.

5. A hair-brush provided with movable bristles, a pivoted lever adapted to move said bristles, said lever carrying a coin-chute, a second lever pivoted concentrically with the first and means whereby the two levers will be interlocked when coin is inserted in the chute, substantially as described.

6. In a hair-brush, the combination of a series of wheels carrying bristles and geared together, of a lever carrying a pawl engaging with said wheels and also carrying a coin-chute, a second lever pivoted concentrically with the first and provided with pivoted thumb-pieces adapted to engage with the coin in the coin-chute on the first lever, whereby the two levers and the wheels will be moved simultaneously.

7. The combination of a brush whose frame and brushing surface are movable with respect to each other, and a coin-operated device whereby such movement can be effected.

In witness whereof I subscribe my signature in presence of two witnesses.

CLARENCE M. STINER.

Witnesses:

FRANK S. OBER,
WALDO M. CHAPIN.