

No. 860,588.

PATENTED JULY 16, 1907.

F. WEVER.
COIN DELIVERY APPARATUS.
APPLICATION FILED MAR. 9, 1906.

Fig. 1.

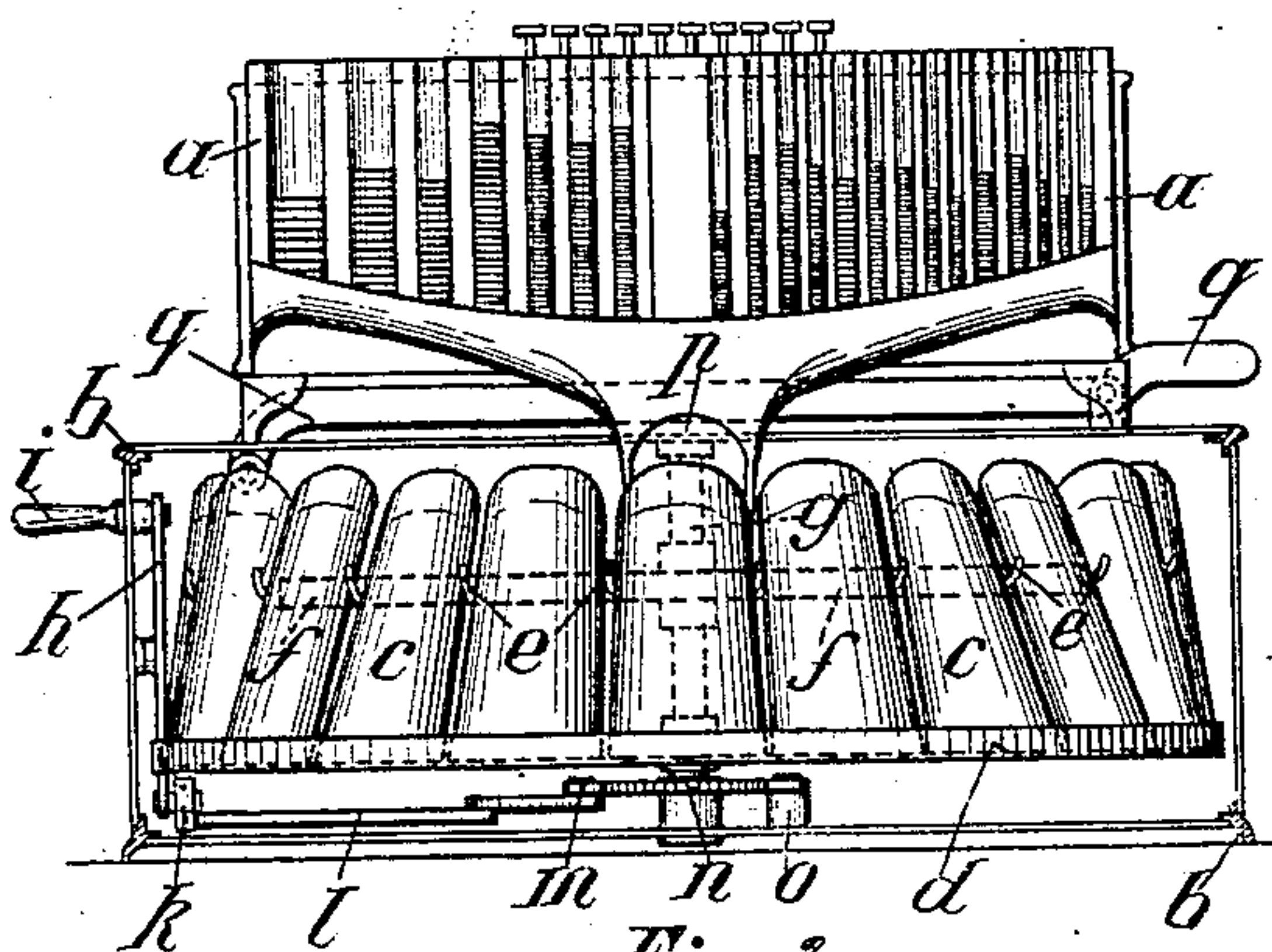


Fig. 2.

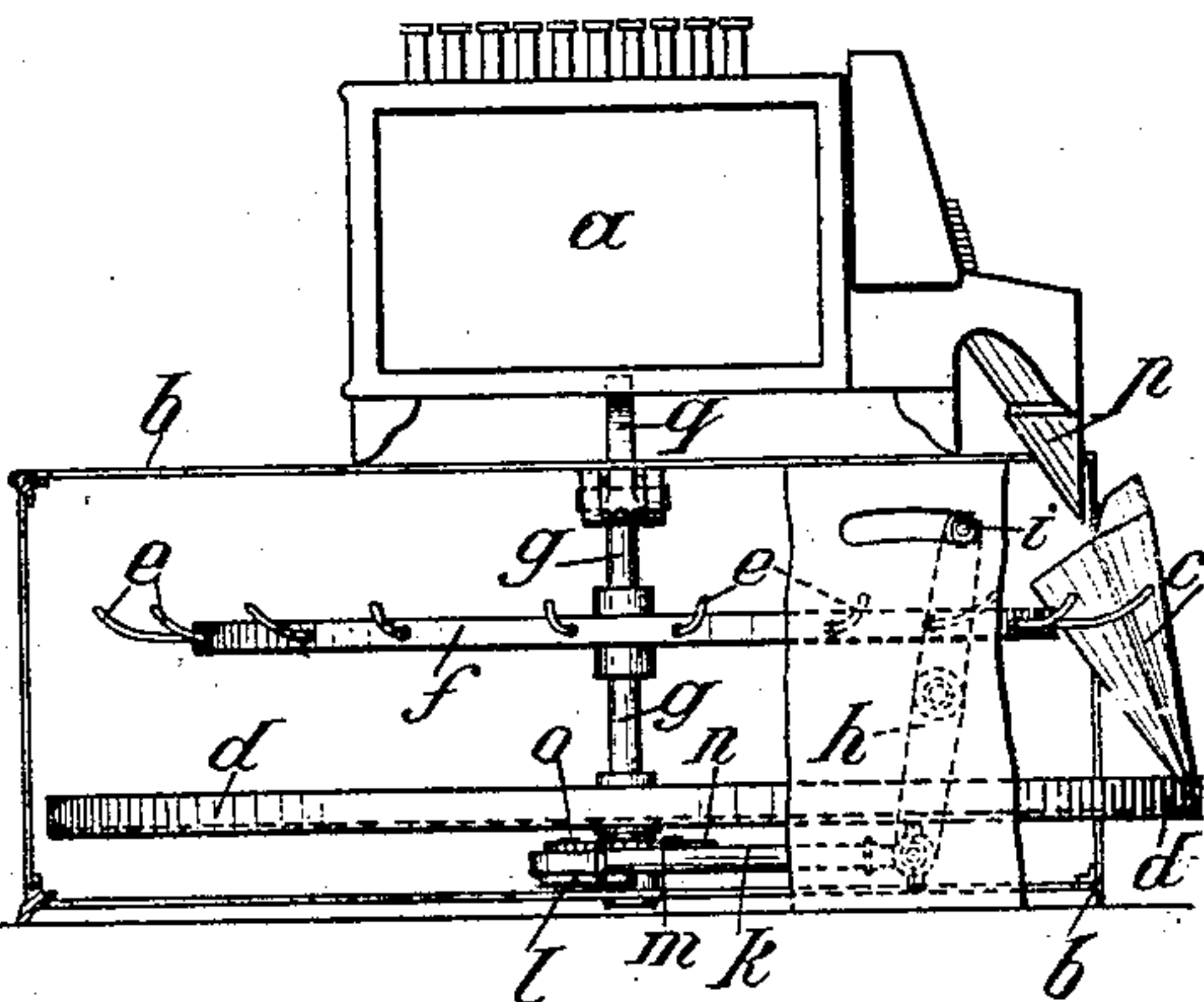


Fig. 3.

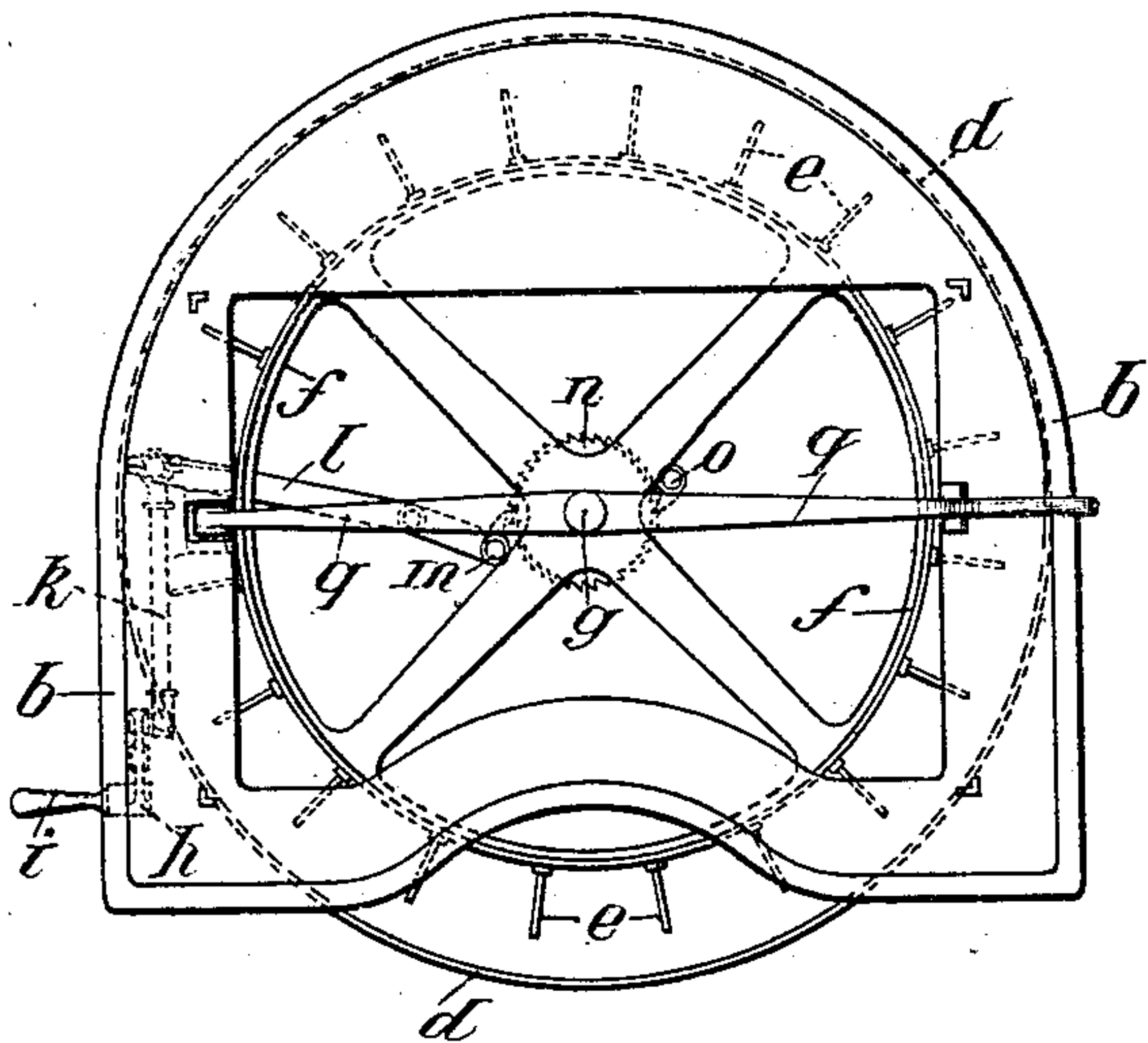
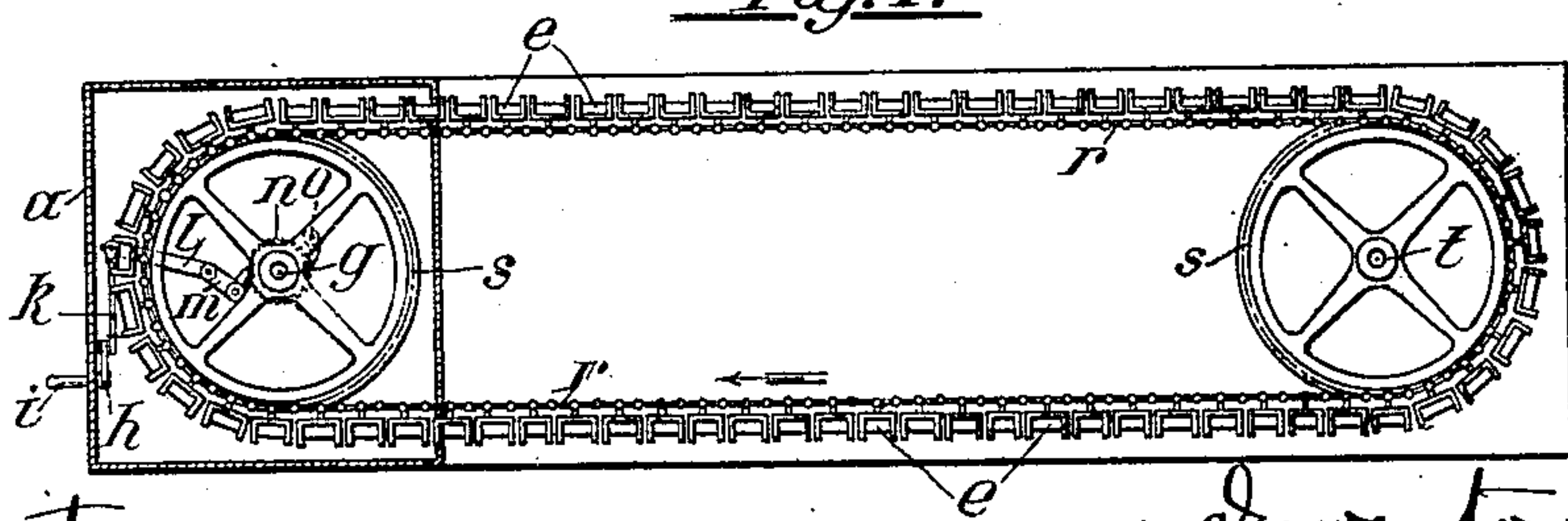


Fig. 4.



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UNITED STATES PATENT OFFICE.

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COIN-DELIVERY APPARATUS.

No. 860,588.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed March 9, 1906. Serial No. 305,191.

To all whom it may concern:

Be it known that I, FRITZ WEVER, a citizen of the German Empire, residing at Stuttgart, in the Kingdom of Württemberg, Germany, have invented certain new and useful Improvements in and Connected with Coin-Delivery Apparatus, of which the following is a description, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon.

10 This invention relates to a coin-delivery apparatus.

The coin-delivering apparatus itself is of any known kind, for instance, a key apparatus in which the ejected coin drops into a trough common to all the keys and from there into the money or wage holding packets placed beneath it. Hitherto these packets have been only held by hand under the delivery funnel or hopper, and attention had to be divided between striking the coin issuing keys and holding up the packets beneath the funnel. By this means incorrect amounts might easily be paid out or time lost in avoiding such mistakes, and this loss of time was increased by the empty packets having to be picked up by hand, then opened, and then when filled laid carefully aside, a loss of time which was very considerable, more particularly in filling a large number of such packets.

Now by the present invention this drawback is avoided and the handling considerably facilitated. The empty packets are here clamped outside the apparatus between forks which hold them open, and rest on a dish which may be shifted forward by means of a pawl and ratchet wheel.

After all the forks have been filled with packets, they, with the dish, are inserted in the apparatus, and the coins to be paid out drop into the packet located beneath the issuing funnel, whereupon a handle is operated which turns the next empty packet under the funnel and so forth. In the meantime other forks may be filled with empty packets and thus substituted for the ones with filled packets, which is considerably facilitated by the arrangement of a folding lever holding the shafts of the forks, so that the filling of the packets proceeds without loss of time. Instead of employing these forks, which are only in a position to receive a limited number of packets, an endless chain with forks attached to the links may be employed and the device uninterruptedly operated by two persons, one of whom attends to the issuing of the amounts and moving the packets forward, the other to the placing of the empty packets on the forks and removal of the filled ones, whereby the maximum demand is met in a comparatively short time.

The object of this invention is shown in two examples of construction in the accompanying drawings, in which:—

55 Figure 1, is a front view of an apparatus in accordance with this invention; Fig. 2, a side view and par-

tial vertical section of the same; Fig. 3, a plan view of Fig. 1 with the coin delivery apparatus removed; Fig. 4, a plan view of a modified construction of the conveying apparatus.

The coin-delivery apparatus *a* which may be of any suitable form of construction is mounted on the cover of a case *b*. In this case *b*, a dish or disk *d* mounted on a vertical spindle *g* is located, on which dish the packets *c* rest and are clamped between the forks *e* carried by a ring *f* also mounted on the spindle *g*, so that the packets stand open.

The movement of the dish *d* and the forks *e* together with the packets is operated, after a payment, by hand by means of a crank *i* which is mounted on a two-armed lever *h*. This is connected by a ball jointed link *k* with a second two-armed lever *l* the free arm of which has a pawl *m* which engages with a ratchet wheel *n* mounted on the spindle *g*, the ratchet wheel being prevented turning backward by means of a second pawl *o*. The pawls *m* and *o* are preferably actuated by springs which always hold them in engagement with the ratchet wheel *m*. The dimensions are selected of such a size that by one turn of the crank *i* the next empty packet *c* is brought under the coin issuing funnel *p*. The spindle *g* is made removable to allow of the empty dish *d* and the forks being changed, while the upper end of the spindle *g* is located in a bearing in the pivoted lever *q* for the purpose of being more easily removed.

Another form of construction of the packet conveying mechanism is shown in Fig. 4. The forks *e* are here mounted on the links *r* of an endless chain which runs over chain wheels *s* which rotate on vertical axes *t*. The axes *t* are arranged at suitable distances apart and on one of them, preferably the one located in the apparatus *a*, a ratchet wheel *m* is arranged, whereby an uninterrupted issuing of coin is obtained, the filled packets *c* being able to be removed and constantly replaced by empty ones during the paying out.

It is immaterial for the essential features of the present invention in what manner the shifting is operated, it, as well as the shifting mechanism, being capable of being operated by a treadle mechanism or the like.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. In a device of the class specified, a movable packet carrier, holding forks spaced from each other a distance less than the normal width of the packets and serving thereby to hold the packets in open receiving position, and means for imparting a step by step advance movement to the carrier.

2. In a device of the class specified, a movable packet carrier, having a support for the lower edges of the packets, and forks projecting from said carrier, the forks being spaced a distance less than the normal width of the packets and serving thereby to hold the upper ends of the packets in open position.

3. In a device of the class specified, a movable carrier,

and a packet supporting and holding means engaging the opposite sides of the packets, said means being spaced less than the normal width of the packets, and thereby holding the mouths of the packets in open receiving position.

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4. In a device of the class specified, a frame or casing, a shaft removably mounted therein, a revoluble dished support carried by the shaft, a ring also carried by the shaft and provided with projecting forks or fingers for
10 engagement with the sides of the packets, a ratchet wheel

secured to the shaft, a pawl for advancing the ratchet wheel, and a delivery member having a spout through which the coins pass to the packets.

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

FRITZ WEVER.

Witnesses:

AUGUST DRAUTZ,
EMIL SCHMIDT.