

(No Model.)

W. H. KEELER.

HAND STAMP.

No. 321,223.

Patented June 30, 1885.

Fig. 1.

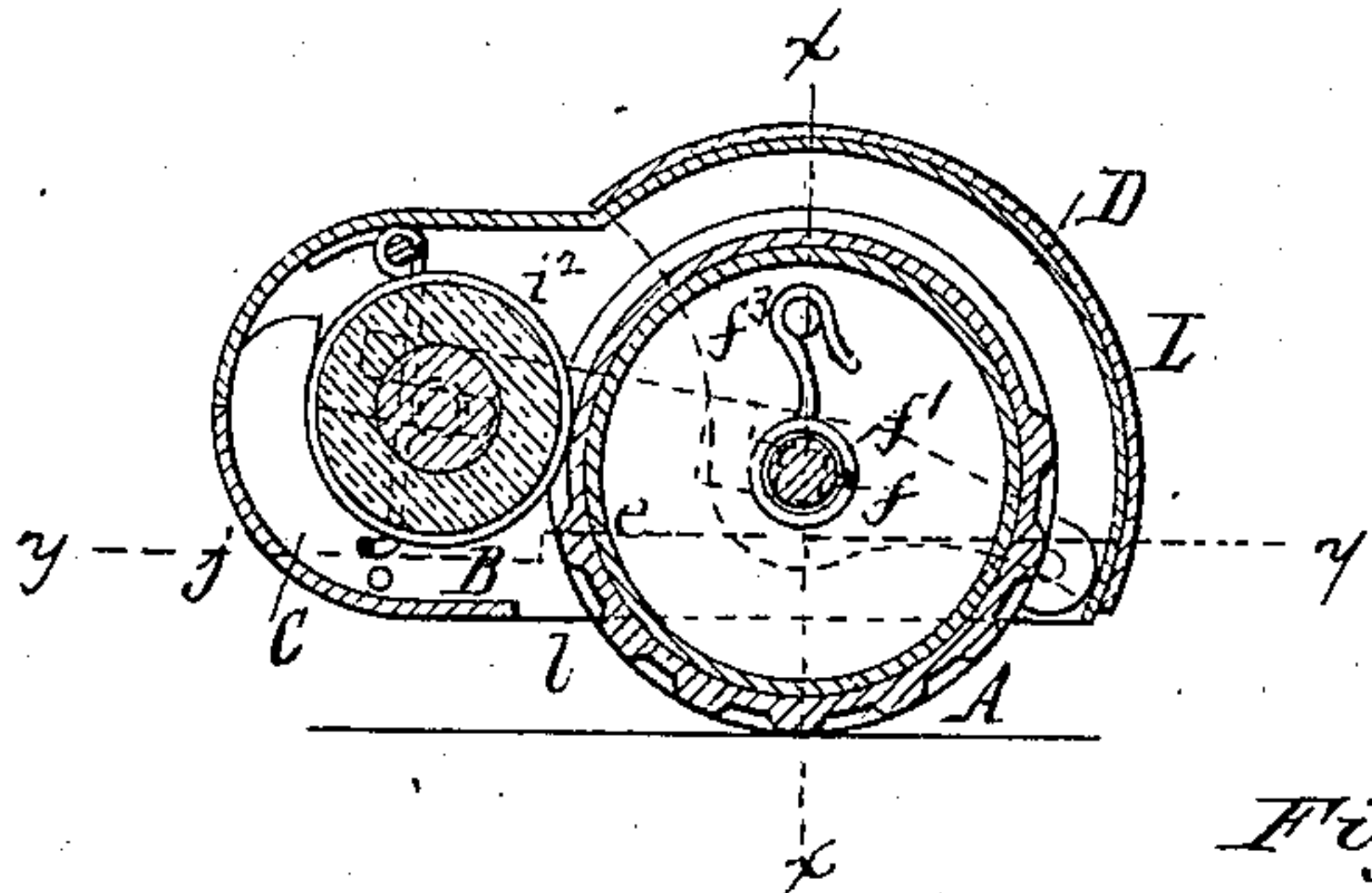


Fig. 2.

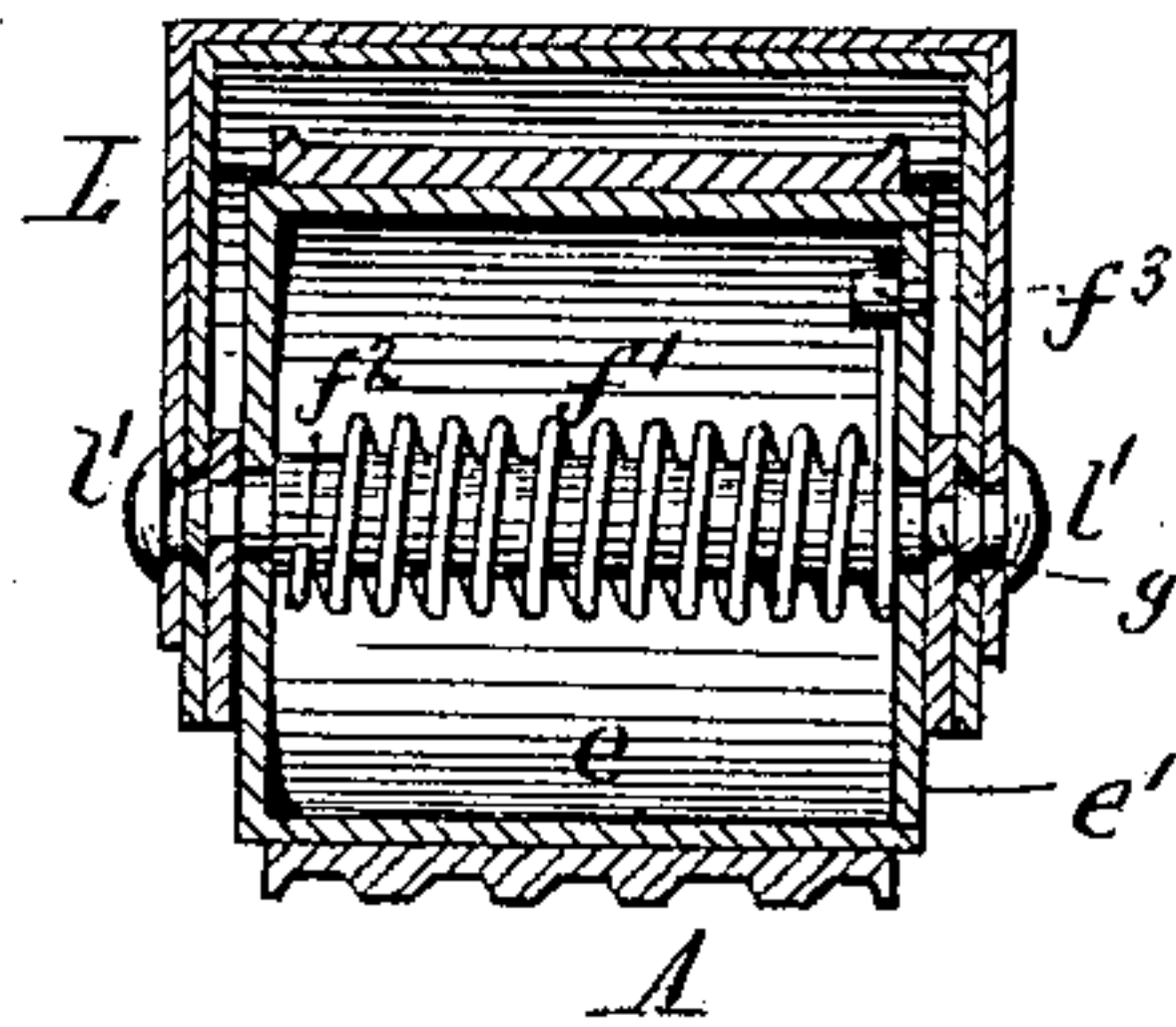


Fig. 7.

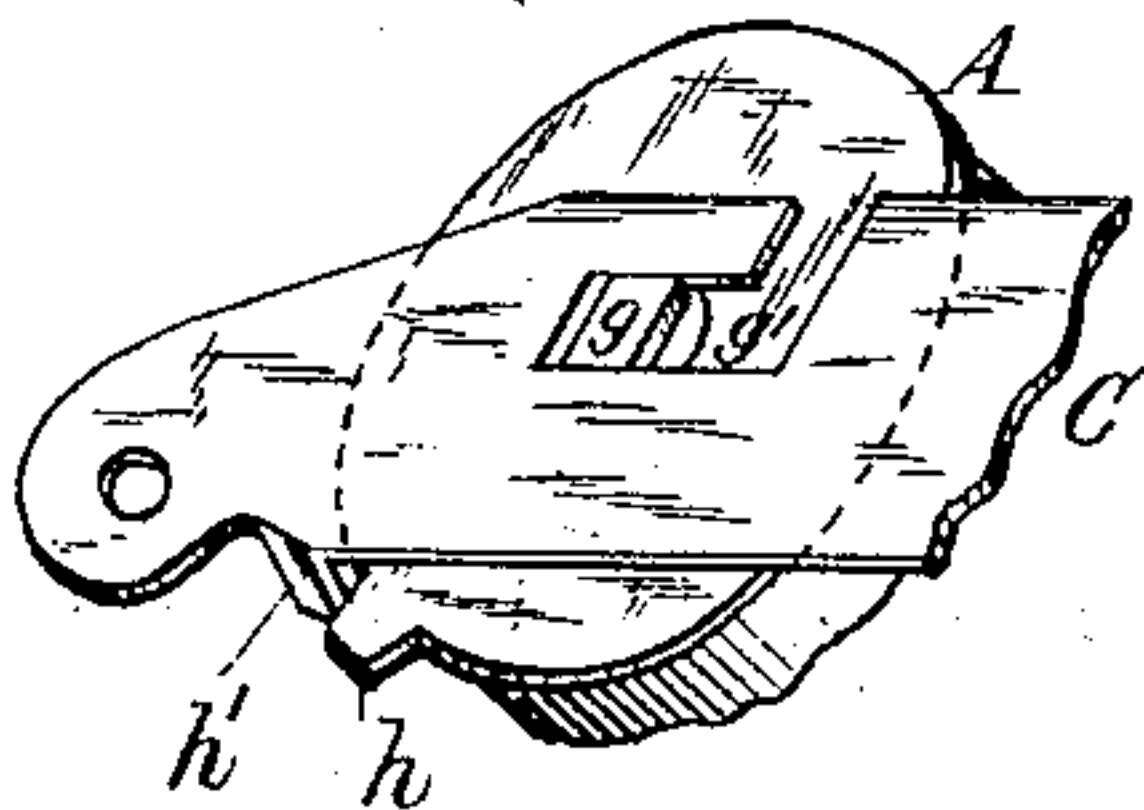


Fig. 5.

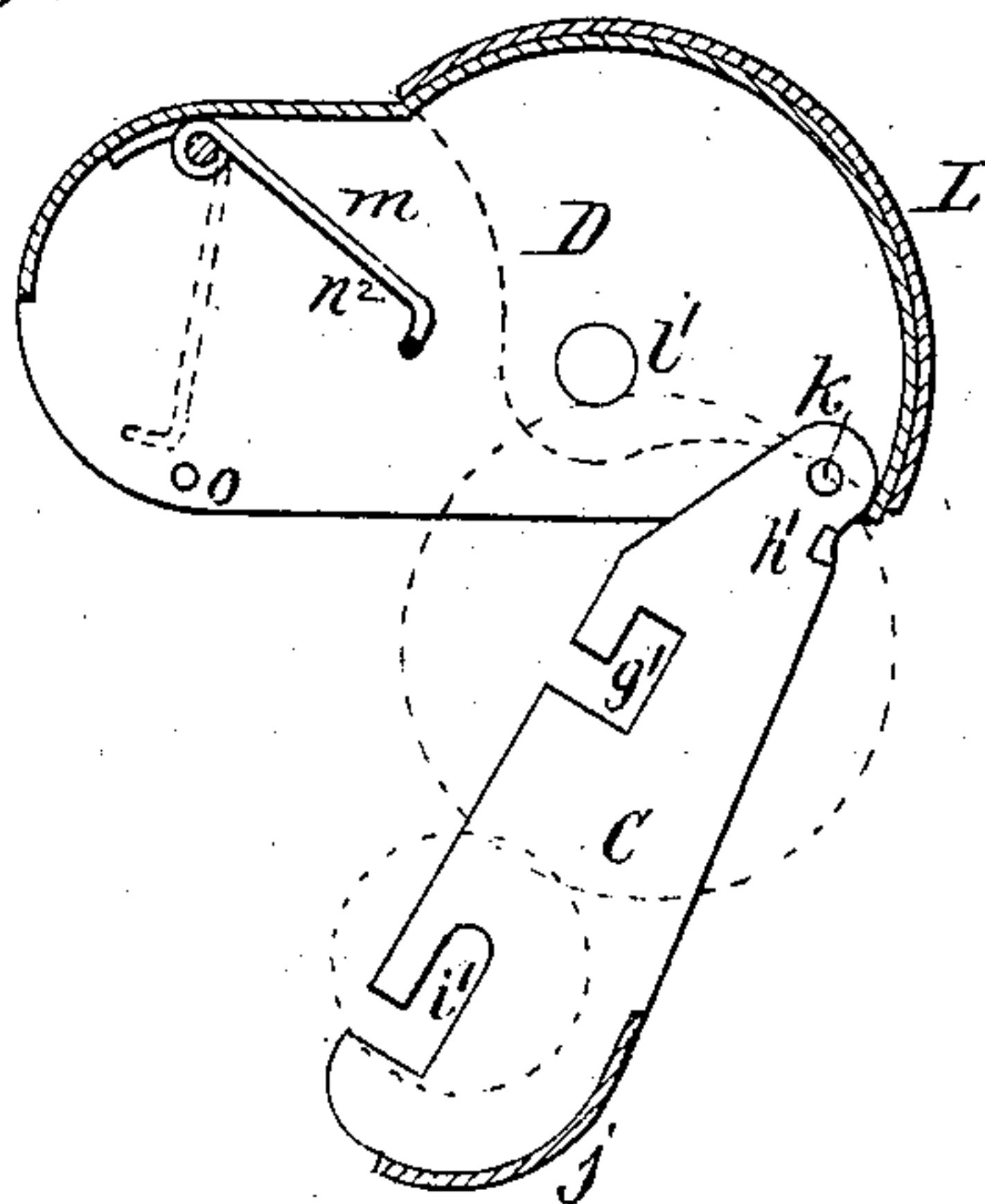


Fig. 3.

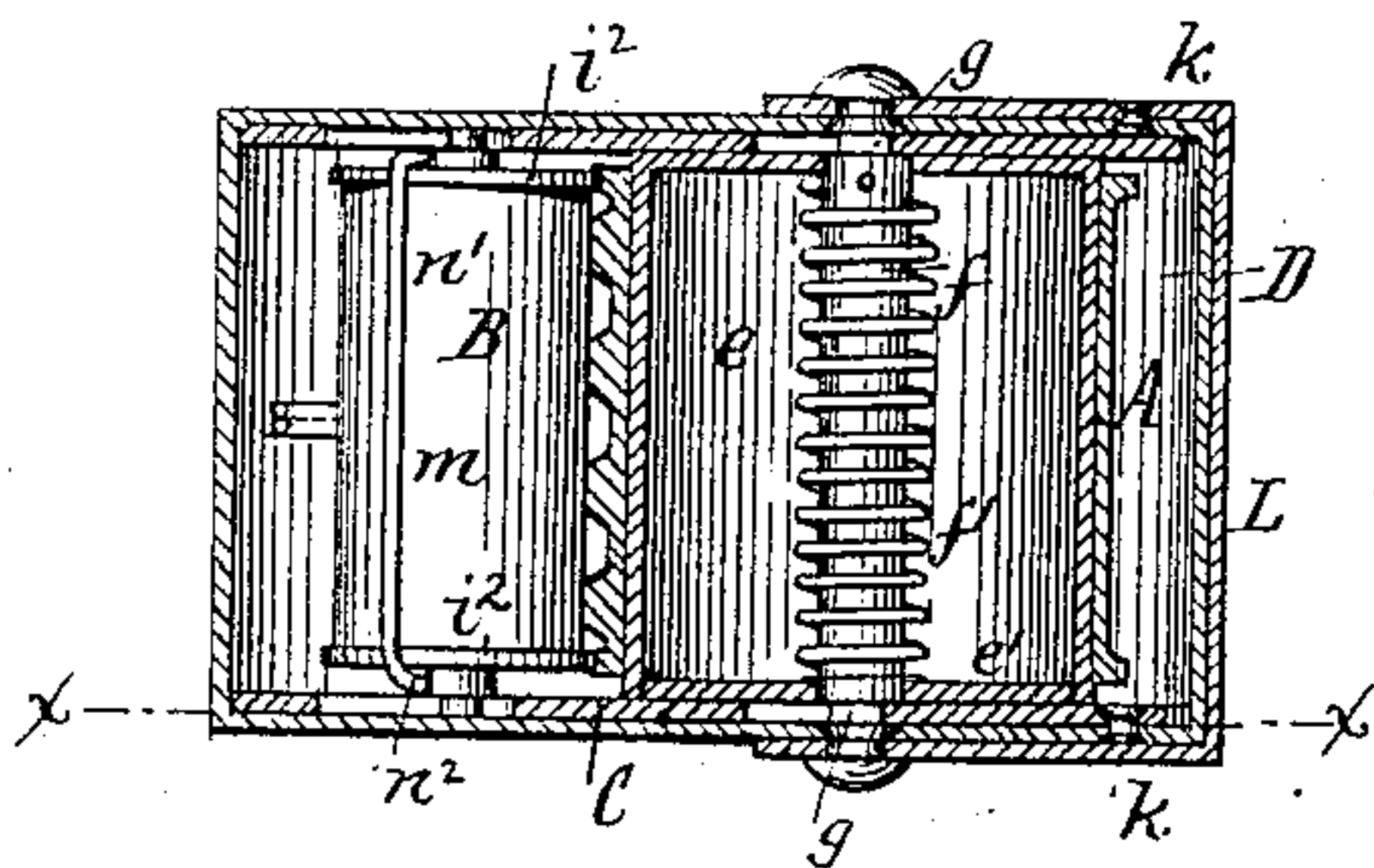


Fig. 4.

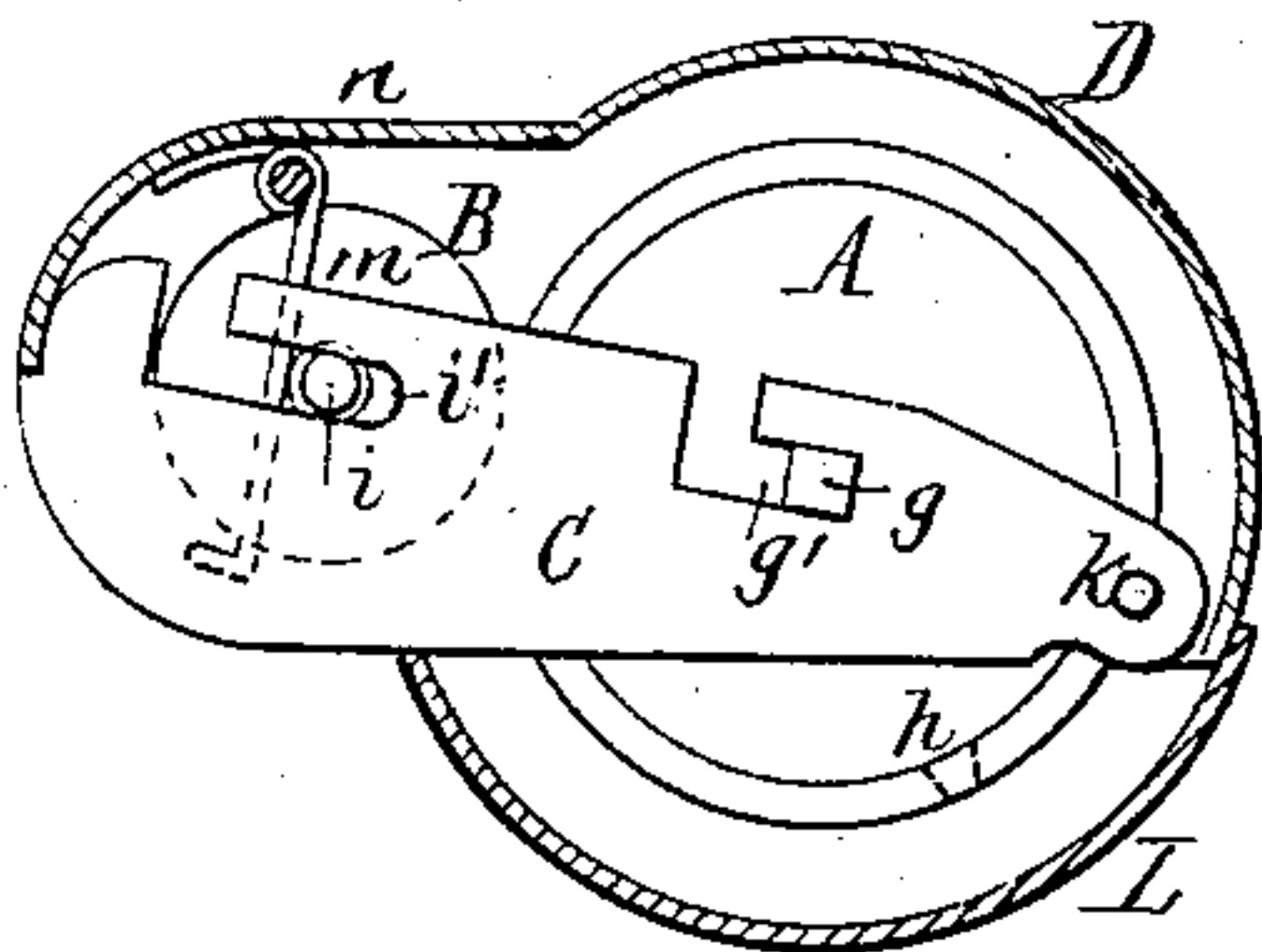
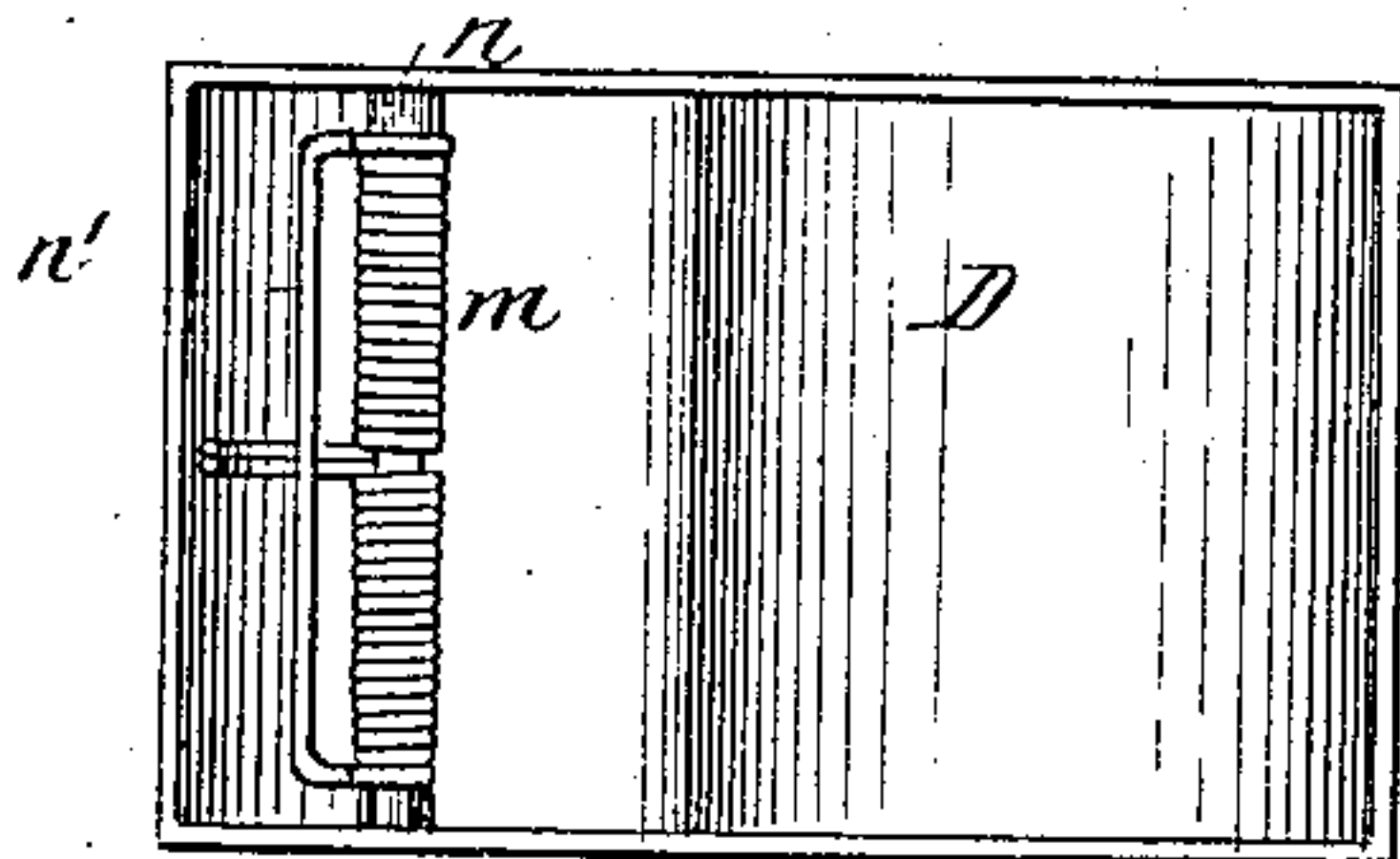


Fig. 6.



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UNITED STATES PATENT OFFICE.

WILLIAM H. KEELER, OF BUFFALO, NEW YORK.

HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 321,223, dated June 30, 1885.

Application filed August 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KEELER, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Revolving Pocket Hand-Stamps, of which the following is a specification.

My invention relates to certain improvements in a pocket hand-stamp, which consists of a type-wheel mounted in a case having an opening through which a portion of the face of the type-wheel projects, the type-wheel being provided with an inking-roller and the case with a movable cover, whereby the exposed portion of the wheel can be concealed when the stamp is not required for use. Letters Patent of the United States No. 209,763 were granted to me for an improved pocket-stamp of this character, to which Letters Patent reference is here made for a full description thereof.

The object of this invention is to render the stamp more convenient and effective in use; and my invention consists of the improvements which will be hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional elevation of a hand-stamp provided with my improvements. Figs. 2 and 3 are cross-sections in lines *x x* and *y y*, Fig. 1, respectively. Fig. 4 is a sectional elevation in line *x x*, Fig. 3. Fig. 5 is a sectional elevation of the casing. Fig. 6 is a bottom plan view of the casing with the rollers and supporting-frame removed. Fig. 7 is a perspective view of one side of the type-wheel and its support.

Like letters of reference refer to like parts in the several figures.

A represents the type-wheel, provided on its periphery with type of rubber or other suitable material; and B is the ink-roller, which bears against the face of the type-wheel and supplies the same with ink.

C is the frame in which the type-wheel A and ink-roller B are supported, and D is the case which covers the type-wheel and ink-roller, except that portion of the face of the type-wheel which is exposed for producing the impression. The type-wheel A consists of a hollow drum, *e*, which is open at one end,

and to the periphery of which the type-band is applied, and a circular head, *e'*, which is fitted into the open end of the drum, and which closes the same.

f is the shaft of the type-wheel, which passes loosely through both heads of the type-wheel, and *f'* is a spiral spring, which surrounds the shaft *f*, and is secured with one end to the shaft *f* at *f²*, and with the other to the head *e'* at *f³*, so that the spring is strained by turning the type-wheel in delivering the impression. The head *e'* may be secured to the drum *e* by corresponding projections and depressions formed on these parts; but ordinarily the friction of the head *e'* against the adjacent portion of the drum is sufficient to hold the parts in their proper relative position. The shaft *f* is provided with square ends *g*, which are arranged in undercut notches *g'*, formed in the side pieces of the frame C, whereby the shaft is prevented from turning.

h is a projection formed on one of the heads of the type-wheel, and *h'* a projection formed on one of the side pieces of the frame C, for determining the starting and stopping points of the movement of the type-wheel. The spring *f'* is strained by turning the wheel on its shaft before the latter is seated in the notches of the frame C, so that the tension of the spring will hold the stop *h* of the wheel against the under side of the stop *h'* of the frame. By rolling the type-wheel over the surface upon which the impression is produced the stop *h* recedes from the stop *h'* until the impression is completed, when, by lifting the wheel from said surface, the wheel is released and returned to its former position by the reaction of the spring *f'*. The forward movement of the wheel can be continued only until the stop *h* of the wheel comes in contact with the upper side of the stop *h'*, whereby the wheel is prevented from making more than one revolution in the same direction, thereby avoiding a repetition of the impression.

The ink-roller B consists of a metallic core or drum, which is covered with felt or other material capable of retaining a quantity of ink sufficient for a considerable number of impressions. The roller B is provided with journals *i*, which turn in undercut notches *i'* formed in the side pieces of the frame C. The roller

B is preferably provided with side flanges, i^2 , which run in contact with the type-wheel on both sides of the type and prevent too close contact of these parts. The outer ends of the side pieces of the frame C are connected by a shield, j , which forms part of the inclosing casing when the parts are in their operative position. The opposite ends of the side pieces of the frame C are attached to the side pieces of the casing D by pivots k . The side pieces of the frame C are arranged on the inner sides of the side pieces of the casing D, so that the latter will close over the frame C and the type-wheel and ink-roller mounted in the same. The casing D covers the upper portions of the ink-roller and the type-wheel, and is provided on its lower side with an opening, l , through which a portion of the face of the type-wheel projects, as clearly shown in Fig. 1. The shield j covers the lower side of the ink-roller B.

L represents a movable cover, which straddles the casing D, the side pieces of the cover L being arranged on the outer sides of the side pieces of the case D and pivoted thereto at l' . The cover L is so formed that the portion of the type-wheel which projects through the opening l can be covered thereby, as represented in Fig. 4, when the stamp is not required for use. By swinging the cover L back over the top of the casing D the lower portion of the type-wheel is exposed.

m is a spring, which is attached to the inner side of the casing D, and which bears against the journals of the ink-roller B and presses the latter against the face of the type-wheel. The spring m is preferably constructed in the form of a U, with its ends coiled around a transverse pin, n , secured to the casing, and with its transverse portion n' extending across the face of the ink-roller and clearing the same, so that only the side portions, n^2 , of the spring bear against the journals of the ink-roller. The transverse portion n' of the spring serves as a thumb-piece, whereby the spring can be held out of the way when the ink-roller is swung into the casing D.

The type-wheel A and ink-roller B are arranged in the frame C, as described, when the latter is swung out of the casing, as repre-

sented in Fig. 5. The spring m is then held against the casing, and the frame C, with the type-wheel and ink-roller mounted thereon, is then swung into the casing so as to assume the position shown in Fig. 1, in which the frame C is held by a slight projection, o , which is formed on the case, and which enters a depression in the side of the case, or by any other suitable catch. Similar catches are employed for holding the cover L in an open and closed position. The frame C permits the type wheel and ink-roller to be removed from the interior of the casing D without disturbing their relative position, and permits ready access to these parts, thereby greatly facilitating their adjustment.

My improved hand pocket-stamp provides a compact and simple contrivance for delivering a large number of uniform impressions without requiring any attention on the part of the person using it, being always ready for use when required and quickly closed up when not required for use.

I claim as my invention—

1. The combination, with a type-wheel, of a casing having an opening through which a portion of the type-wheel projects, an ink-roller, and a frame in which the type-wheel and ink-roller are mounted and which is movably attached to the casing, substantially as set forth.

2. The combination, with a type-wheel, A, of a casing, D, having an opening, l , an ink-roller, B, a frame, C, and a shield, j , secured to the casing, substantially as set forth.

3. In a pocket hand-stamp, the combination, with the casing D, having an opening, l , of a frame, C, movably attached to the casing, type-wheel A, and ink-roller B, supported in the frame C, spring m , secured to the casing and adapted to hold the ink-roller against the type-wheel, and a movable cover, L, pivoted to the sides of the casing and adapted to close the opening l of the casing, substantially as set forth.

W. H. KEELER.

Witnesses:

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