

No. 756,802.

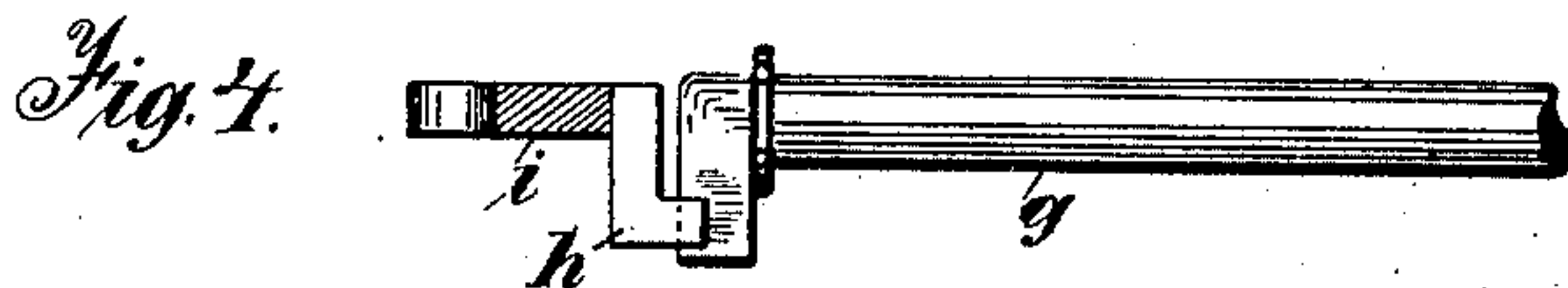
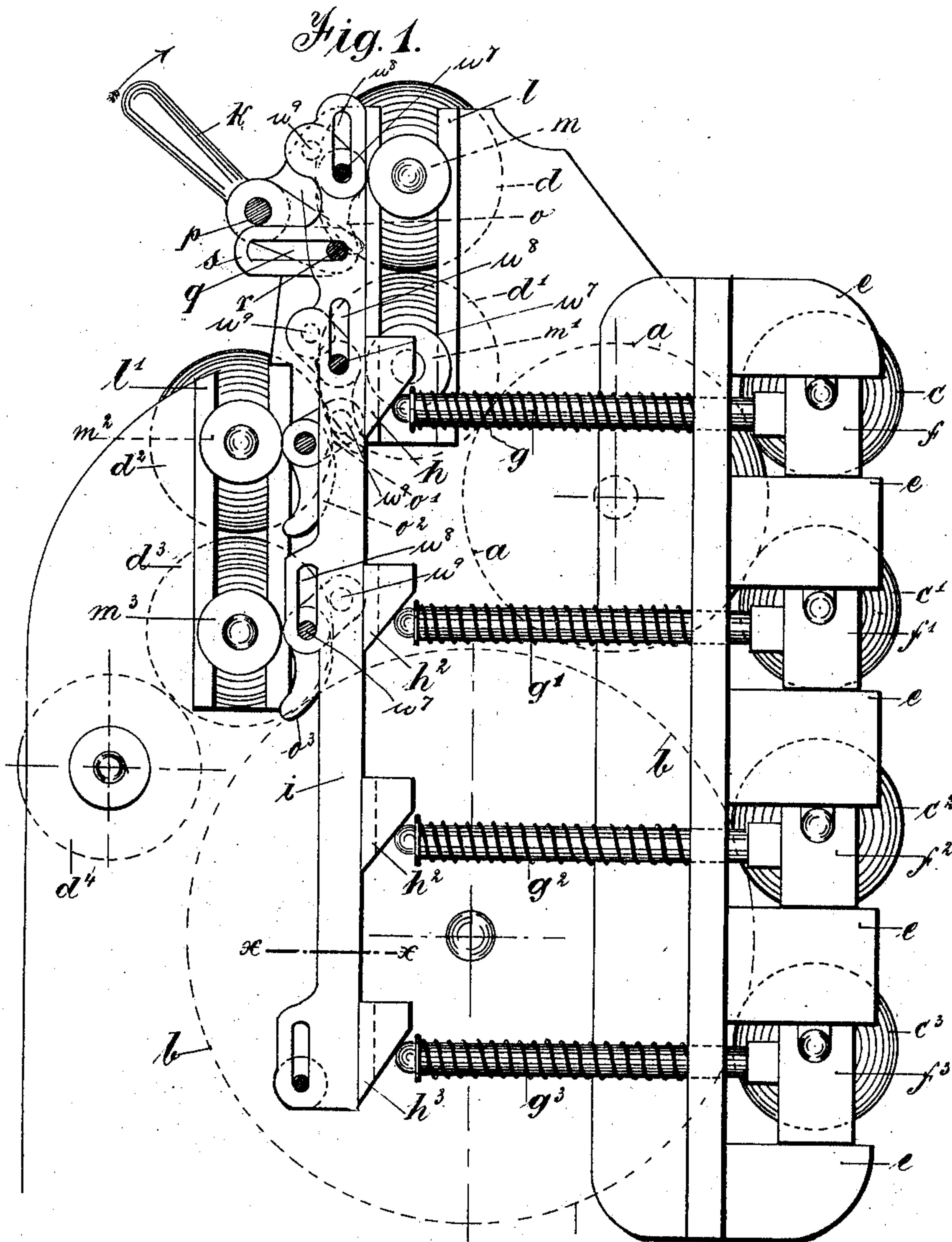
PATENTED APR. 5, 1904.

W. M. ROCKSTROH.
PLATEN PRINTING PRESS.

APPLICATION FILED DEC. 3, 1901.

NO MODEL.

3 SHEETS—SHEET 1.



Witnesses
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C. Thompson

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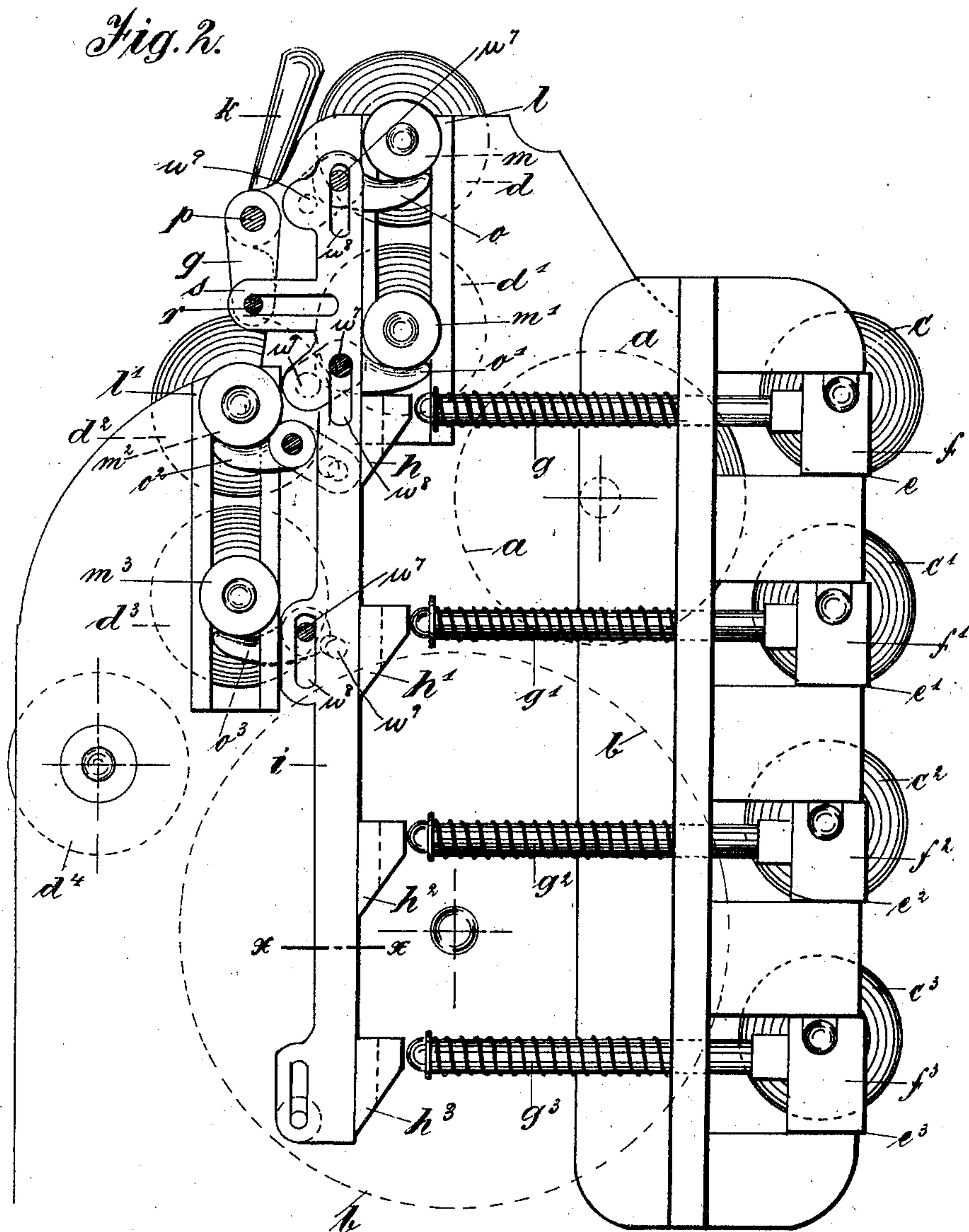
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3 SHEETS—SHEET 2.



Witnesses
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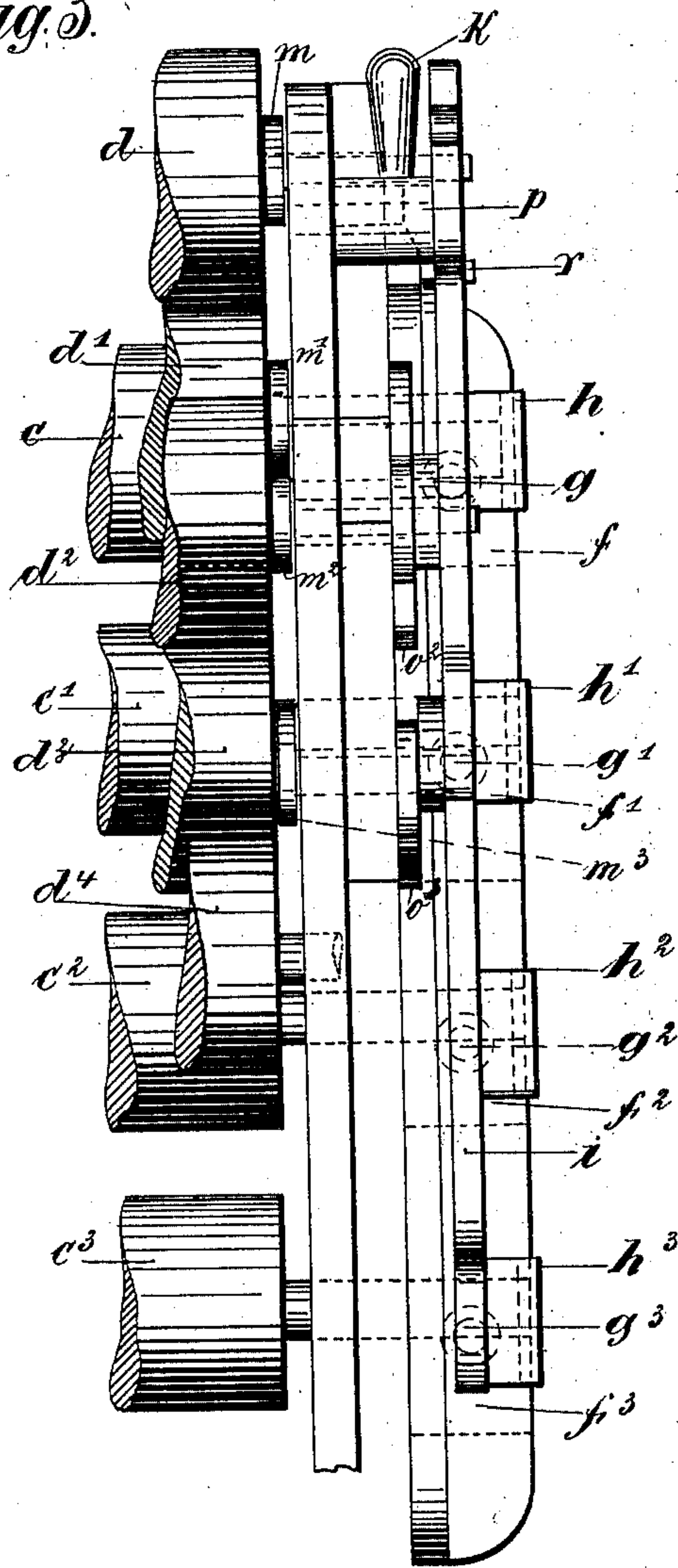
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3 SHEETS—SHEET 3.

Fig. 3.



Witnesses

H. K. Boulter

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UNITED STATES PATENT OFFICE.

WILHELM MAX ROCKSTROH, OF KLEIN-SEDLITZ, NEAR PIRNA, GERMANY.

PLATEN PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 756,802, dated April 5, 1904.

Application filed December 3, 1901. Serial No. 84,574. (No model.)

To all whom it may concern:

Be it known that I, WILHELM MAX ROCKSTROH, factory manager, a subject of the Emperor of Germany, residing at Klein-Sedlitz, near Pirna, in the German Empire, have invented certain new and useful Improvements in Platen Printing-Presses, of which the following is a complete specification.

Apparatus has already been devised whereby in a platen printing-press the distributing and inking rollers may be disengaged—i. e., put into inoperative positions in relation to the inking-cylinders. Apparatus for this purpose heretofore constructed is, however, subject either to the disadvantage that the rollers cannot all be simultaneously disengaged or to the probably greater disadvantage that to enable the rollers to be disengaged they must be mounted in a special movable and rotatable frame, which in consequence of its own weight and that of the rollers therein cannot easily be raised by means of a single handle.

Now in apparatus according to this invention for simultaneously disengaging inking and distributing rollers the bearings of the rollers to be disengaged are not formed in the part by which their disengagement is effected, but are arranged in the press independently thereof, and apparatus in accordance with this invention differs in this respect from that for a like purpose hereinbefore referred to.

In the accompanying drawings, which represent an example of apparatus in accordance with this invention, Figure 1 is a side elevation wherein the inking and distributing rollers are shown engaged. Fig. 2 is a side elevation in which the said rollers are shown disengaged. Fig. 3 is a front elevation of one of the side frames of the press, and Fig. 4 is a section corresponding to the line *xx* of Fig. 1.

a and *b* are the inking-cylinders of the press, from which the ink after it has been properly spread by the distributing-rollers *d*, *d'*, *d''*, *d'''*, and *d⁴* is supplied in the usual manner to the inking-rollers *c*, *c'*, *c''*, and *c'''*. Now in order to enable the inking-rollers *c*, *c'*, *c''*, and *c'''* and the distributing-rollers *d*, *d'*, *d''*, and *d'''* to be simultaneously disengaged the apparatus is constructed as follows: The inking-

rollers *c*, *c'*, *c''*, and *c'''* are mounted in bearings *f*, *f'*, *f''*, and *f'''*, that can be slid in guides *e*, that are open at the sides. The bearings *f*, *f'*, *f''*, and *f'''* are provided with fixed bolts or bars *g*, *g'*, *g''*, and *g'''*, which are so acted upon by springs that they tend to press the inking-rollers against the cylinders *a* and *b*. (See Fig. 1.) The bolts *g*, *g'*, *g''*, and *g'''* are acted upon by inclined surfaces *h*, *h'*, *h''*, and *h'''* of slide-bars *i*, mounted on opposite sides of the press and capable of being moved upwardly by a handle *k*. The distributing-rollers *d*, *d'*, *d''*, and *d'''* are mounted in pairs in guides *l* and *l'*, which are open at the top and enable the bearings *m*, *m'*, *m''*, and *m'''* of these rollers to be moved upward. For the purpose of raising these bearings in their guides *l* and *l'* and thereby disengaging the rollers there are provided rotatable parts *o*, *o'*, *o''*, and *o'''*, which are also operated by the slide-bar *i* and which, as shown, are formed as two-armed levers, in each of which one arm is acted upon by the movement of the slide-bar *i*, while the other arm is free and engages with and beneath the bearing *m*, *m'*, *m''*, or *m'''* of the distributing-roller *d*, *d'*, *d''*, or *d'''*, so as to effect the raising thereof, as from the position shown in Fig. 1 to that shown in Fig. 2.

The levers *o*, *o'*, *o''*, and *o'''* are fulcrumed to the frame of the machine, and one arm of each of the levers has a pin-and-slot connection, as at *u'*, with the slide-bar *i*, and, as before stated, the other arm of each of the levers is free for the purpose hereinbefore set forth. It will be stated that on each side of the frame of the machine a set of the levers *o*, *o'*, *o''*, and *o'''* are arranged. At the fulcrum-point of the levers *o*, *o'*, and *o''* a stud *u'* is provided, which extends and plays within the slot *u''*, formed in the slide-bar *i*, there being a slot *u''* for each stud *u'*, and the said slots *u''* extend in a vertical manner and act, in connection with the stud *u'*, as guides for the vertical movement of the slide-bar *i*, as well as prevents any lateral movement of said slide-bar *i*.

At *p* is pivoted a lever, one arm of which forms the handle *k*, by means of which, as already indicated, the movement of the slide-bar *i* is effected, while the other arm, *q*, of the

lever is provided with a pin r , which moves in a slot or guide s , formed in the slide-bar i .

From the foregoing construction it is evident that when the handle k is moved in the direction of the arrow, Fig. 1, it affects the downward movement of the slide-bar i , and owing to the pin-and-slot connection between the levers o , o' , o^2 , and o^3 and bar i the latter will cause the said levers to partly rotate, and the free arm of each of the said levers o , o' , o^2 , and o^3 will be moved so as to extend beneath and raise the bearings m , m' , m^2 , and m^3 with the rollers mounted therein. The bolts g , g' , g^2 , and g^3 of the bearings f , f' , f^2 , and f^3 are at the same time moved by the surfaces h , h' , h^2 , and h^3 upon the slide-bar i , and the disengagement of the inking-rollers is thus effected simultaneously with that of the distributing-rollers. (See Fig. 2.) When the handle k is moved back into the position shown in Fig. 1, both the distributing and the inking rollers move back into their positions of engagement, the former in consequence of their own weight and the latter under the action of the springs which press upon the bolts g , g' , g^2 , and g^3 .

In the example the disengagement of the rollers is effected by the downward movement of the slide-bar i . It is, however, obviously immaterial whether the disengagement of the rollers be effected by the downward movement or by the upward movement of the slide-bar.

Having now particularly described and ascertained the nature of the said invention and

in what manner the same is to be performed, I declare that what I claim is—

1. In a platen printing-press, apparatus for simultaneously disengaging distributing and inking rollers comprising vertically-movable slide-bars which are mounted on opposite sides of the press, and which on the one hand are provided with inclined surfaces that act upon spring-bolts of inking-rollers and on the other hand are adapted so to operate rotatable parts formed as two-armed levers that the said parts engage with and raise the bearings of the distributing-rollers.

2. In a platen printing-press, the combination with inking-cylinders, distributing-rollers and inking-rollers and sliding bearings for said distributing and inking rollers, of spring-pressed rods carried by the inking-rollers, vertically-movable slide-pieces provided with inclined surfaces adapted to act upon the said rods when the slide-pieces are moved in one direction to move the bearings of the inking-rollers so that the latter will move out of contact with the inking-cylinders, levers adapted to engage with the bearings of the distributing-rollers, and connections between the slide-pieces and the said levers whereby the movement of the slide-pieces in one direction will effect separation of the distributing-rollers from the inking-cylinders.

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

WILHELM MAX ROCKSTROH.

Witnesses:

HERNANDO DE SOTO,
PAUL ARRAS.