

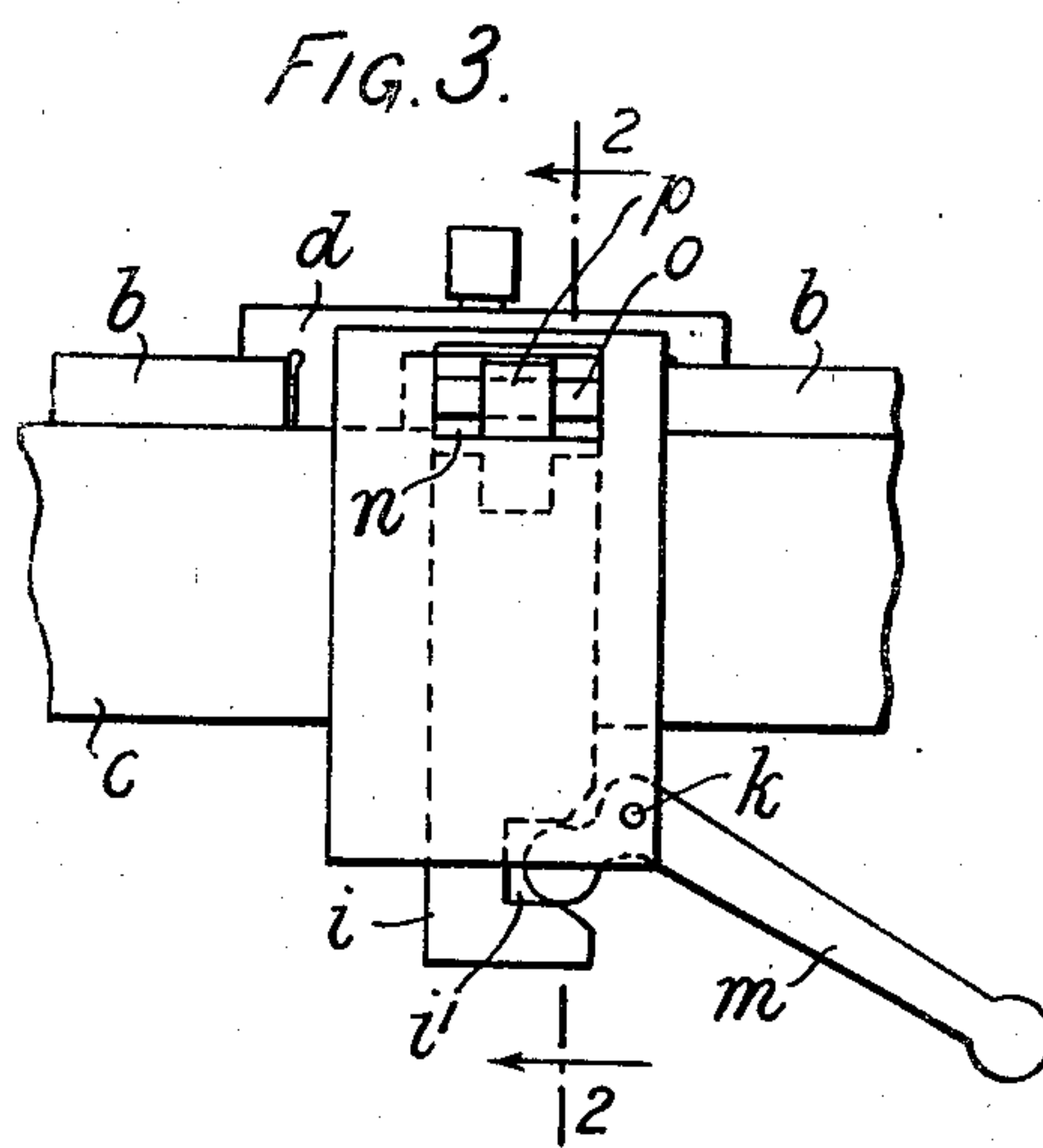
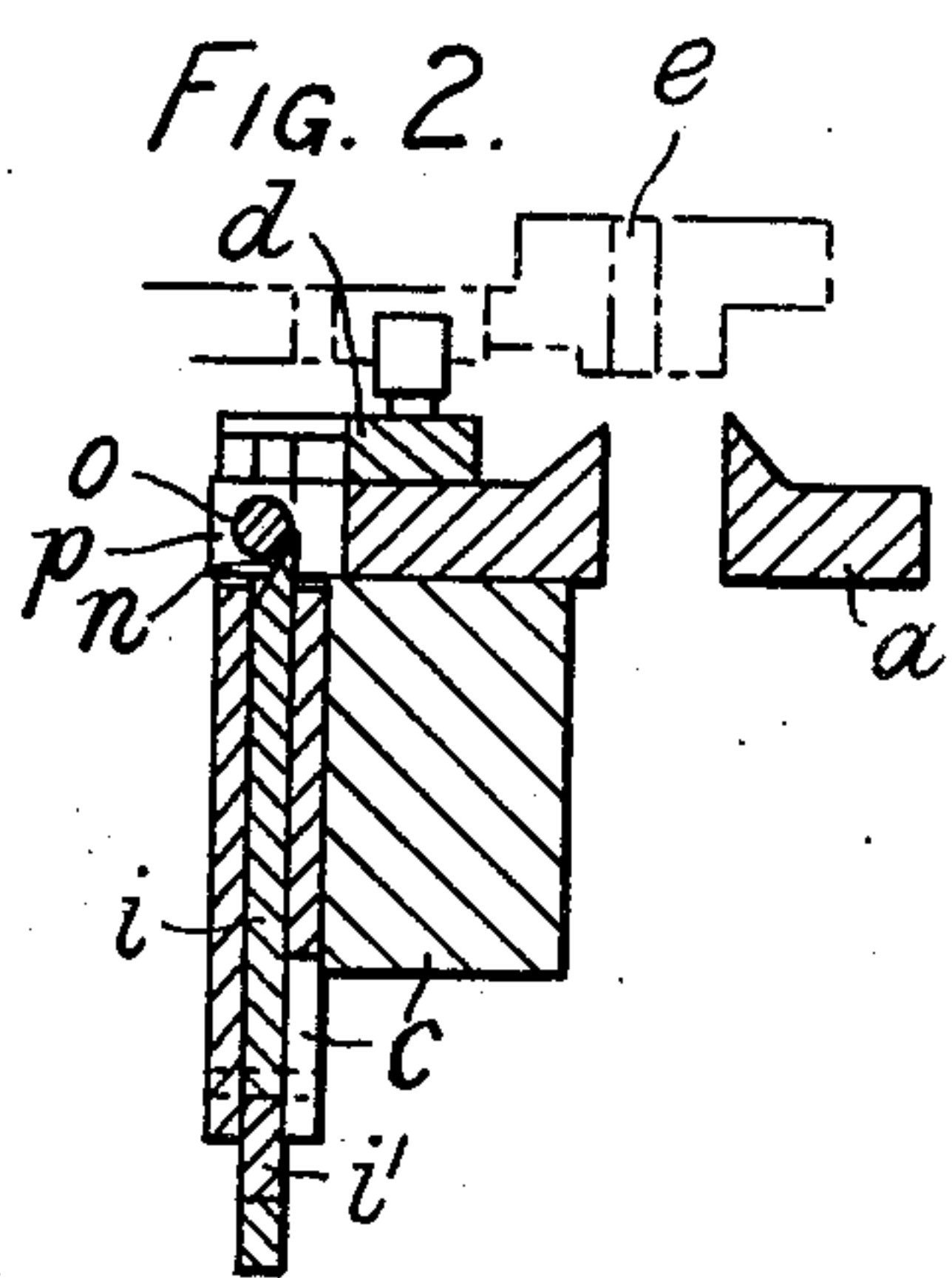
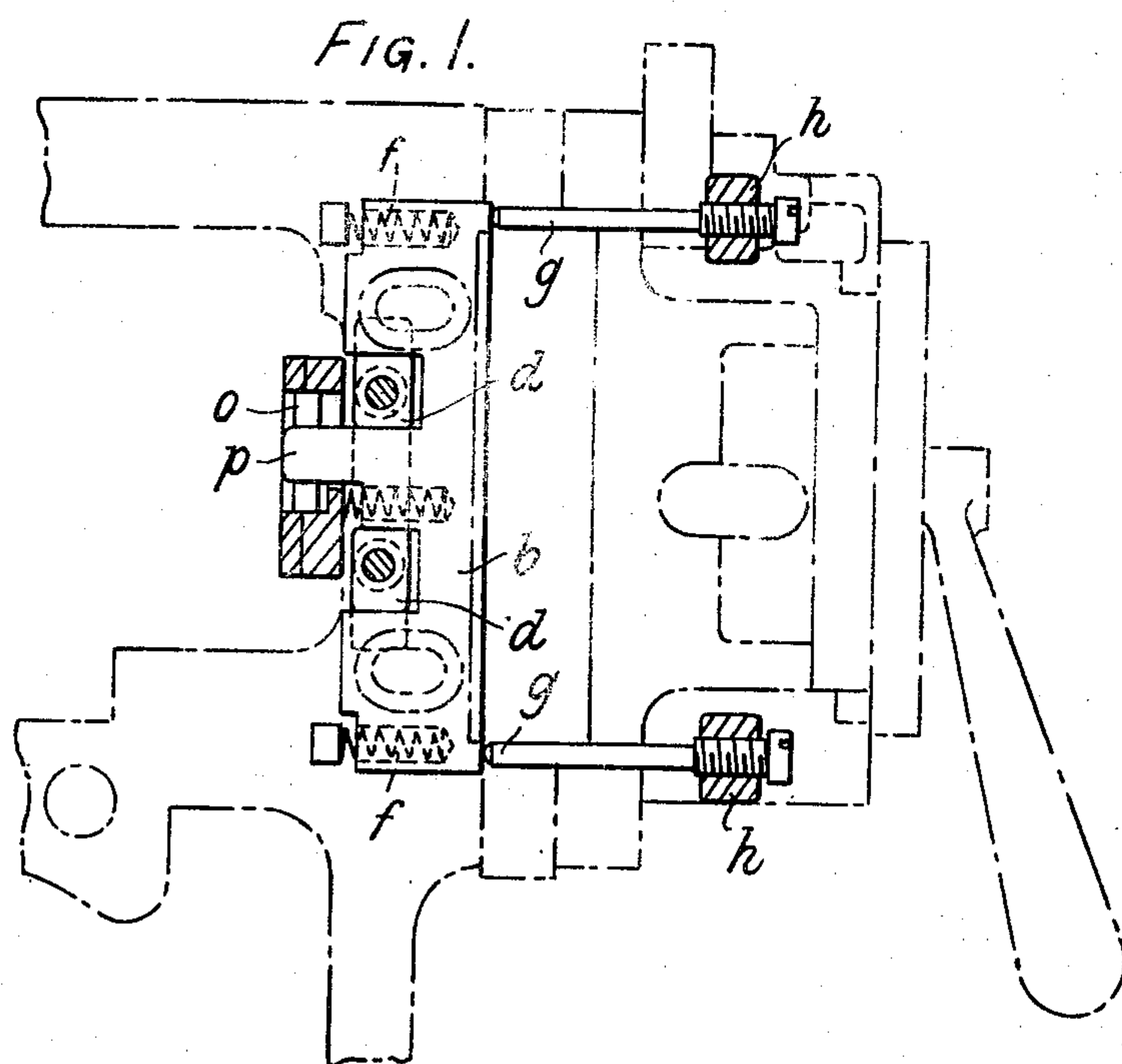
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TYPOGRAPHICAL SLUG CASTING MACHINE

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TYPOGRAPHICAL SLUG CASTING MACHINE

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This invention relates to typographical slug casting machines and is concerned with the means employed for trimming the cast slugs to the desired dimensions.

5 In known machines knives are provided between which the slugs pass for the purpose of trimming their lateral faces, and such knives may be laterally movably arranged. It has also been proposed to make both knives laterally ad-
 10 justable in order to provide sufficient space for the passage of slugs with overhanging characters. The means heretofore proposed however, for adjusting the knives are somewhat cumbersome, requiring considerable space, and can only
 15 be fitted to the machine with some difficulty, as the space available at this point is limited.

The present invention aims at providing an adjusting mechanism for the knives which does not present these disadvantages, and the inven-
 20 tion accordingly consists in a typographical slug casting machine comprising a spring-urged slidable slug-trimming knife and an adjustable inclined surface engaging with a part of said knife to alter its position against said spring action.

25 The drawing illustrates by way of example, one constructional form of the invention, wherein:—

Figure 1 is a view from the front of the displaceable left hand knife according to the invention, shown in heavy lines, while the remain-
 30 ing parts are illustrated in dotted lines;

Figure 2 is a section through Figure 3 taken on the line 2—2, and

Figure 3 is a plan view of part of Figure 1.

35 In the drawing, *a* is the right-hand knife, which is adjustable in the well-known manner. This adjusting mechanism will not therefore, be described in detail. The left-hand knife *b* according to the invention, is displaceable in a guide *d* on the stationary part *c* so that it can be
 40 moved out of the way of a slug ejected from the mould *e*. The knife is urged in the direction of the knife *a* located on the opposite side of the slug, by springs *f* which bank against stops on the machine frame. The movement is limited
 45 by stops *g* which are adjustable. For this purpose, they are screwed into eyelets or stops *h* on the machine frame. In the part *c*, there is also a slider *i*, displaceable therein, having a recess *i*¹

in which engages one arm of an angle lever *m* pivoted at *k*, and located on a stationary part of the machine frame. The slider *i* is provided at its forward end with a bevelled nose piece
 5 *n* which is adapted to engage behind a stud *o* located on the knife *b* in an extension *p* of the said knife. By swinging the said lever *m* the slider *i* is moved to and fro and the knife *b* ad-
 10 justed by the engagement of the inclined surface *n* with the stud *o*. By moving the slider *i* forward, the knife is retracted from the knife
 15 *a* and the springs *f* become compressed, whereas when the slider is pulled back, the springs *f* move the knife to the original position in which it rests against the pins *g*. 15

It should be understood that the invention is not restricted to the constructional form described above which may be modified in order to fulfill various conditions and requirements encountered, without departing from the scope of
 20 the invention.

Having described my invention I declare that what I claim and desire to secure by Letters Patent is:—

1. A slug trimming mechanism for typograph-
 25 ical slug casting machines comprising a right hand knife, a spring-urged left hand knife, stops limiting the extreme operative position of the left hand knife, springs holding the left hand
 30 knife yieldingly against said stops, and an adjustable fore-and-aft slide formed at its rear end with an inclined surface engaging with a part of the left hand knife, said inclined surface be-
 35 ing operative by the rearward adjustment of the slide to withdraw the left hand knife leftward away from the limiting stops against the action of the springs.

2. A slug trimming mechanism according to claim 1, wherein said inclined surface engages a stud mounted on an extension from the rear or
 40 left hand edge of the left hand knife.

3. A slug trimming mechanism according to claim 1, wherein said slide is adjustable by means of a bell-crank lever arranged in the plane of the slide and movable in a fore-and-aft direction in
 45 effecting the adjustment of the slide.

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