

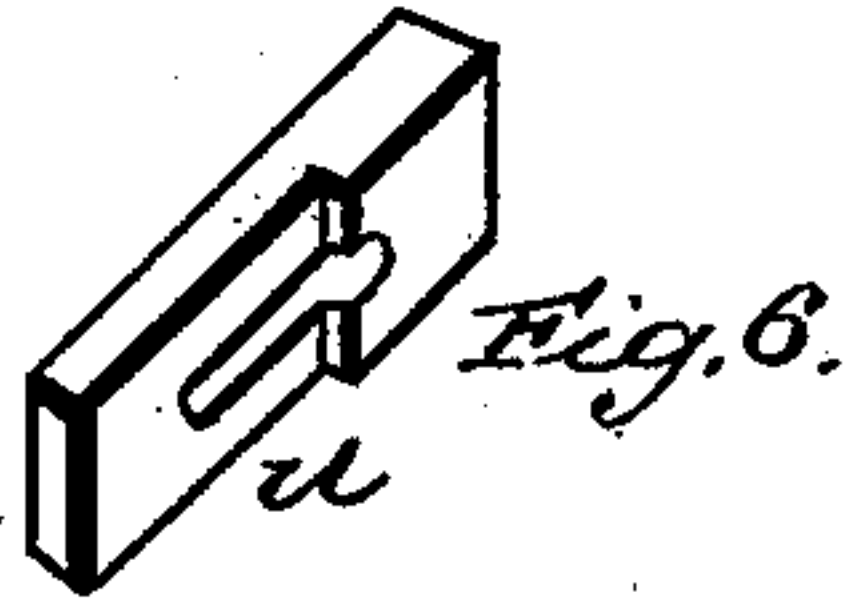
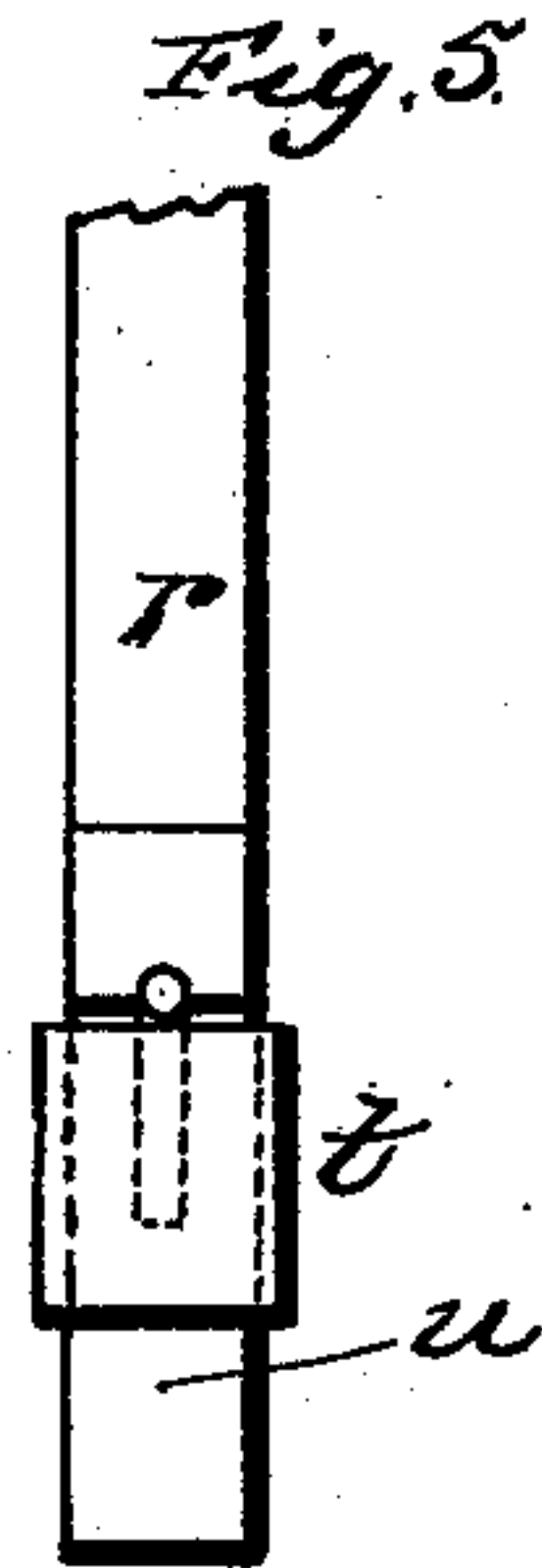
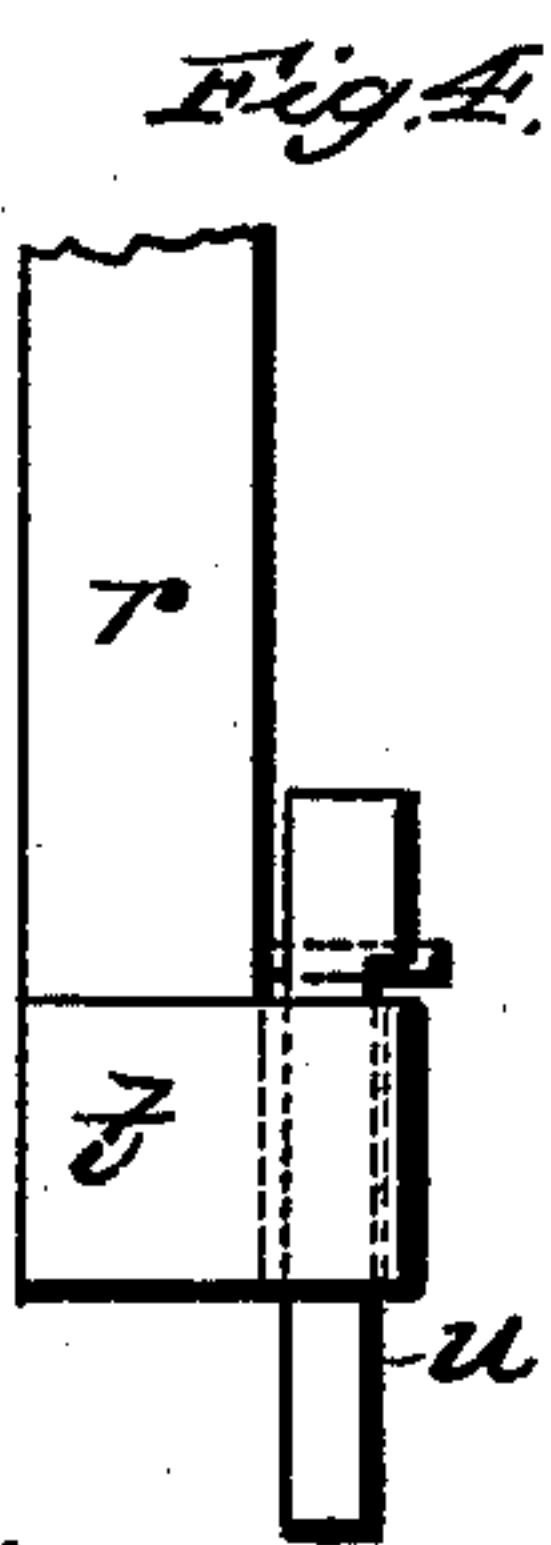
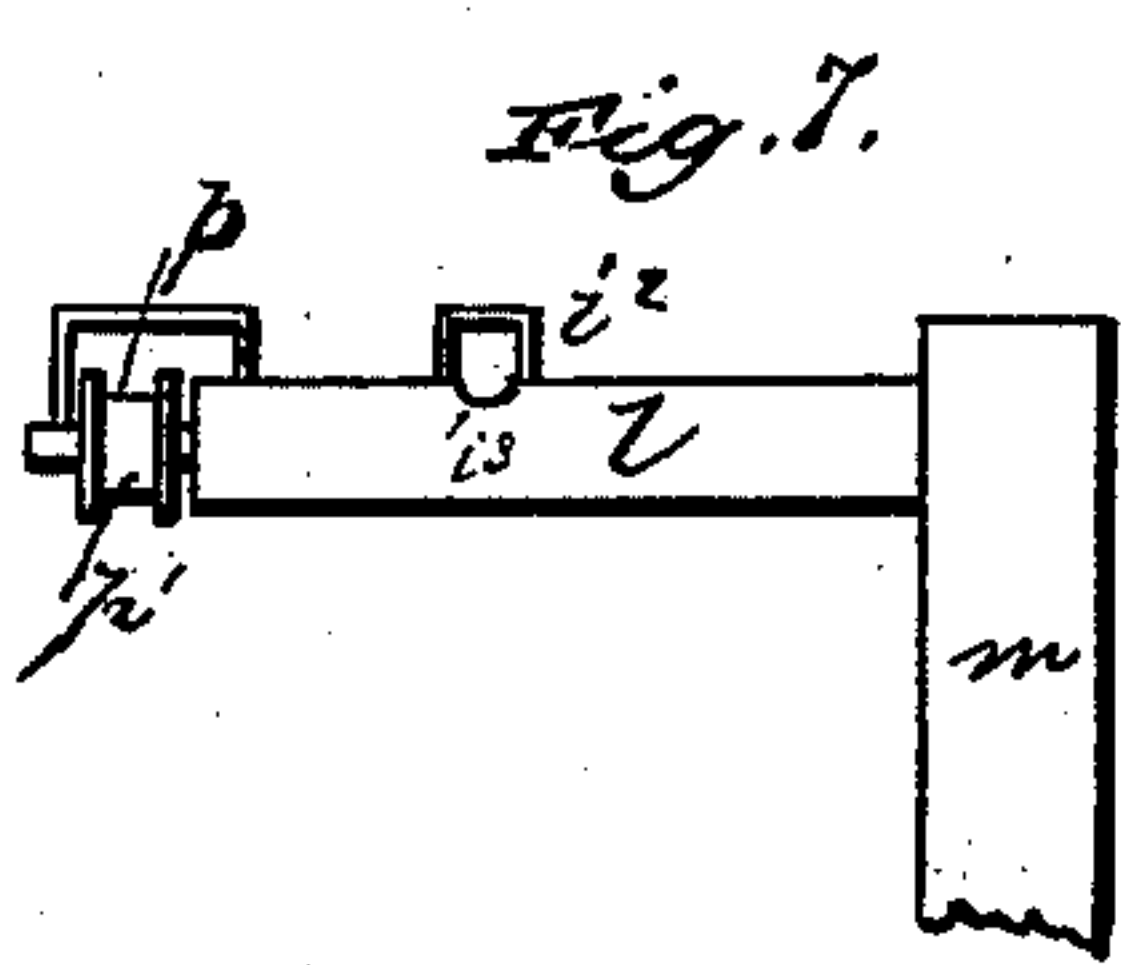
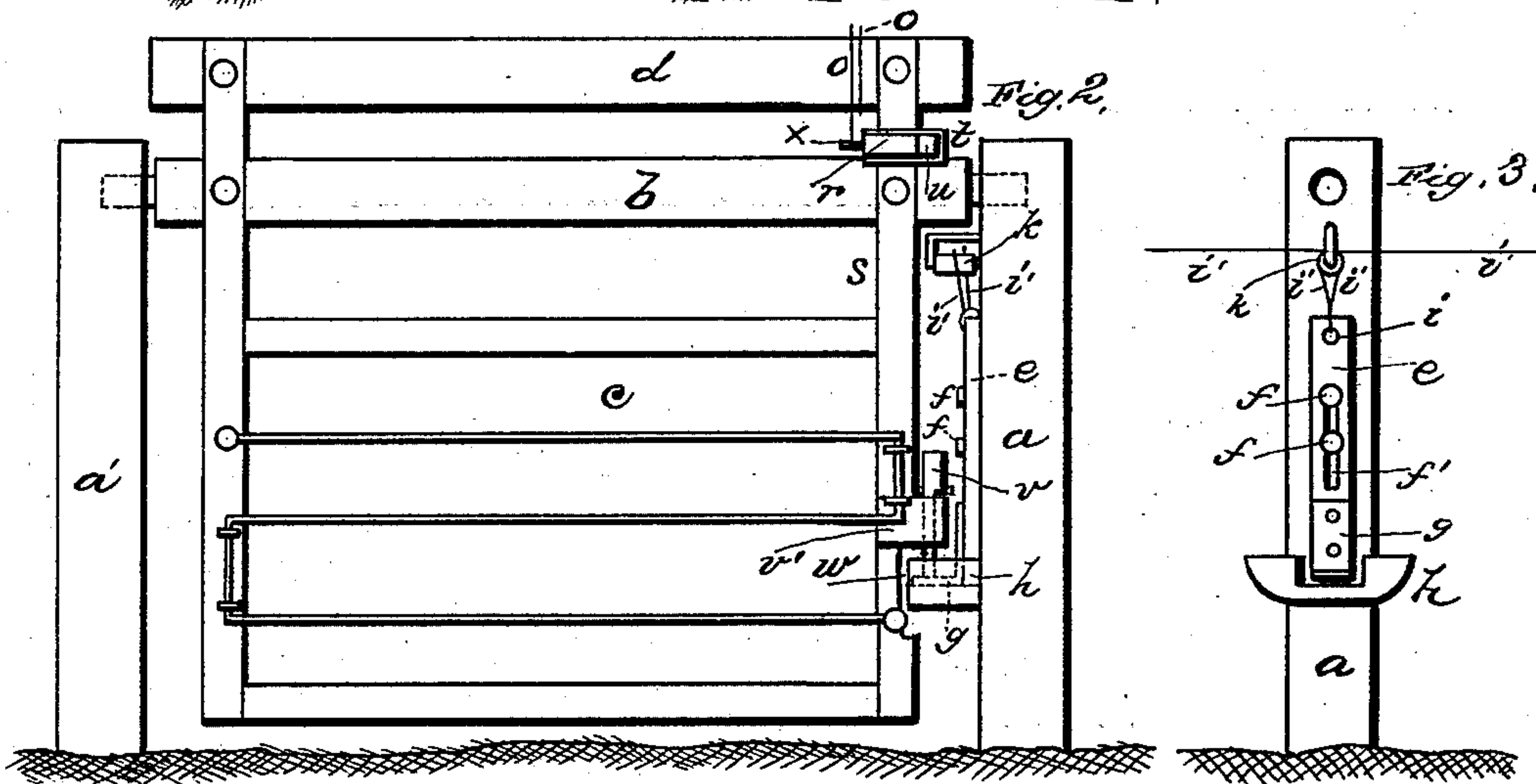
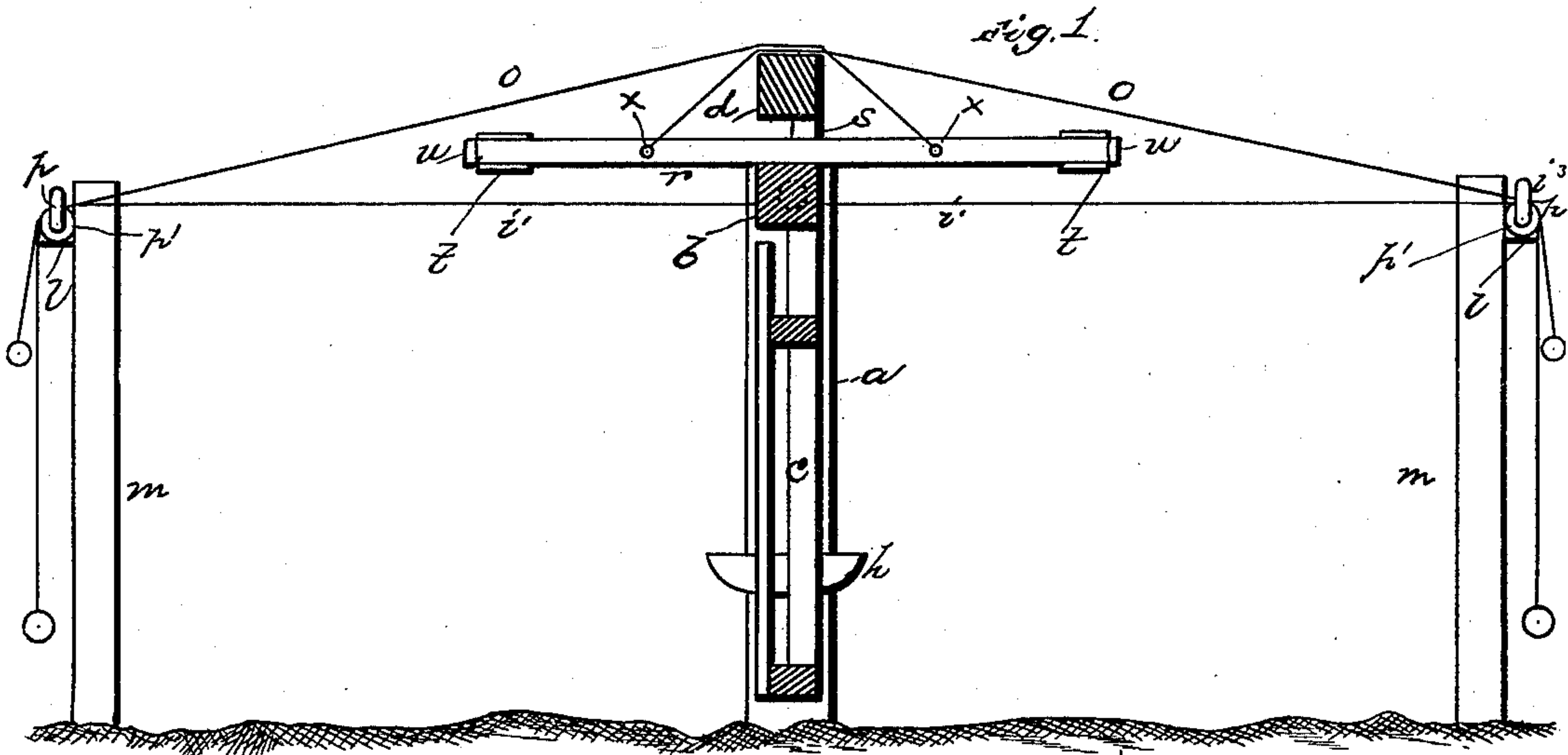
(Model.)

R. F. BAUGHN.

GATE.

No. 297,055.

Patented Apr. 15, 1884.



WITNESSES
E. H. Bates.
J. J. Sheehy.

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UNITED STATES PATENT OFFICE.

ROBERT F. BAUGHN, OF LEXINGTON, MISSISSIPPI.

GATE.

SPECIFICATION forming part of Letters Patent No. 297,055, dated April 15, 1884.

Application filed May 12, 1883. (Model.)

To all whom it may concern:

Be it known that I, ROBERT F. BAUGHN, a citizen of the United States, residing at Lexington, in the county of Holmes and State of Mississippi, have invented certain new and useful Improvements in Gates; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical section; Fig. 2 is a front view; Fig. 3 is a front view of the hinge-post, and Figs. 4, 5, 6, and 7 are detail views.

This invention has relation to gates; and it consists in the construction and novel arrangement of devices, as will be hereinafter fully described, and particularly pointed out in the claims appended.

Referring by letter to the accompanying drawings, *a a'* designate the gate-posts, the lower ends of which are embedded in the ground in the usual manner. The upper ends of these posts *a a'* are provided with sockets to receive the journals of the horizontal hinge-beam *b* of the gate.

The gate proper, *c*, is to be constructed either of barbed wire, pickets, or rails of wood, either perpendicularly or horizontally arranged, and a balance-beam or weight, *d*, is to be supported above the hinge-beam *b*, to render the opening and closing of the gate easy.

The gate is to be opened and closed by persons mounted on horseback or seated in vehicles, without alighting from the same, by means of a system of latch-wires and weighted opening and closing wires, to be hereinafter more fully explained.

The gate-post *a* is provided on its inner face with a slotted lifter, *e*, secured thereto, preferably, by two headed bolts, *f f*, passed through the slot *f'* into the post. This lifter *e* is provided at its lower end with an angle-iron, *g*, which, when the lifter is in its normal position, rests in a notch in a cross-arm, *h*, near the lower end of the post *a*. The upper end of the slotted lifter is provided with a staple or eye, *i*, to which the lifting or latch wires *i'* are secured. Above the lifter is a friction-

roller, *k*, secured by its journal to the gate-post *a*, as shown, and over this the latch-wires pass to the supporting-arms *l* on the auxiliary posts *m m'*, located in line with the post *a* at opposite sides thereof, and at a sufficient distance away to permit the approach of teams or horsemen, to open and close the gate by manipulating the latch-wires and the opening and closing wires without interference. The latch-wires *i'* pass through staples *i''* and over grooves *i'''* in the supporting-arms *l*. The opening-wires *o o'* pass through staples or guides *p* and over pulleys *p' p''*, journaled on the ends of the supporting-arms *l*, as the friction in opening and closing the gate is greater than that required to operate the lifter. The opening and closing wires have weights at their free ends to prevent the slamming of the gate.

r designates a cross-arm secured to the end bar, *s*, of the gate near the post *a*, and it may be secured either above or below the hinge-beam. It is provided at each end with a guide, *t*, and a slotted slide, *u*, which operates by gravity when the cross-arm is in a vertical position to lock the gate open by dropping into the notch in the cross-piece on the post *a* and resting on the angle-iron until the lifter is operated to raise it and the closing-wire drawn to close the gate. The end bar, *s*, is notched in its outer face at *w*, to receive the cross piece *h* when the gate is closed, and above this notch *w* is a slotted latch, *v*, working in a guide, *v'*, which in its normal position rests on the angle-iron in the notch in the cross-arm *h*. This latch, as well as the latches at the ends of the cross-arm, is lifted by the slotted lifter when the latch-wires are pulled. The opening-wires are connected to studs *x x'* in the cross-arm *r*, and are passed over the balance-beam to opposite supporting-arms, *l*, so that by raising the latch and pulling upon the opening-wire when you approach the gate the gate will open away from you, and will be stopped by the latch in the end of the cross-arm *r* when the latch in its descending end reaches the notch in the cross-piece *h*. After passing under the gate, the other latch-wire is used to release the holding-latch, and the weighted wire is pulled to close the gate, the opposite weight serving to counterbalance the gate, which is evenly balanced by the balance-beam above the hinge-beam, and thus prevent slamming

and injury to the latch. One of the main requisites of this class of gates is a balance or weight to render the operation of opening and closing the gate comparatively easy, and this I provide by making the balance-beam of sufficient weight to make the gate of equal weight above and below the hinge-beam. The angle at the lower end of the latch-lifter is to be made of either wood or iron, and when made of wood the angle or shoulder is to be a sufficient distance from the lower end, and of such shape as to give it the necessary strength to perform its function. The latch-wires and opening and closing wires may be either of rope or wire, or both combined.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The gate-post *a*, having the notched cross-arm *h* and the lifter *e*, and latch-wires for operating said lifter, in combination with a pivoted gate swinging vertically, provided with a cross-arm, *r*, carrying sliding latches at its ends, and a gravitating latch on the inner end rail of the gate, with latch-wires and opening-wires for operating the same, substantially as specified.

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

ROBERT F. BAUGHN.

Witnesses:

B. J. BEALE,

JOHN G. ALEXANDER.