

(No Model.)

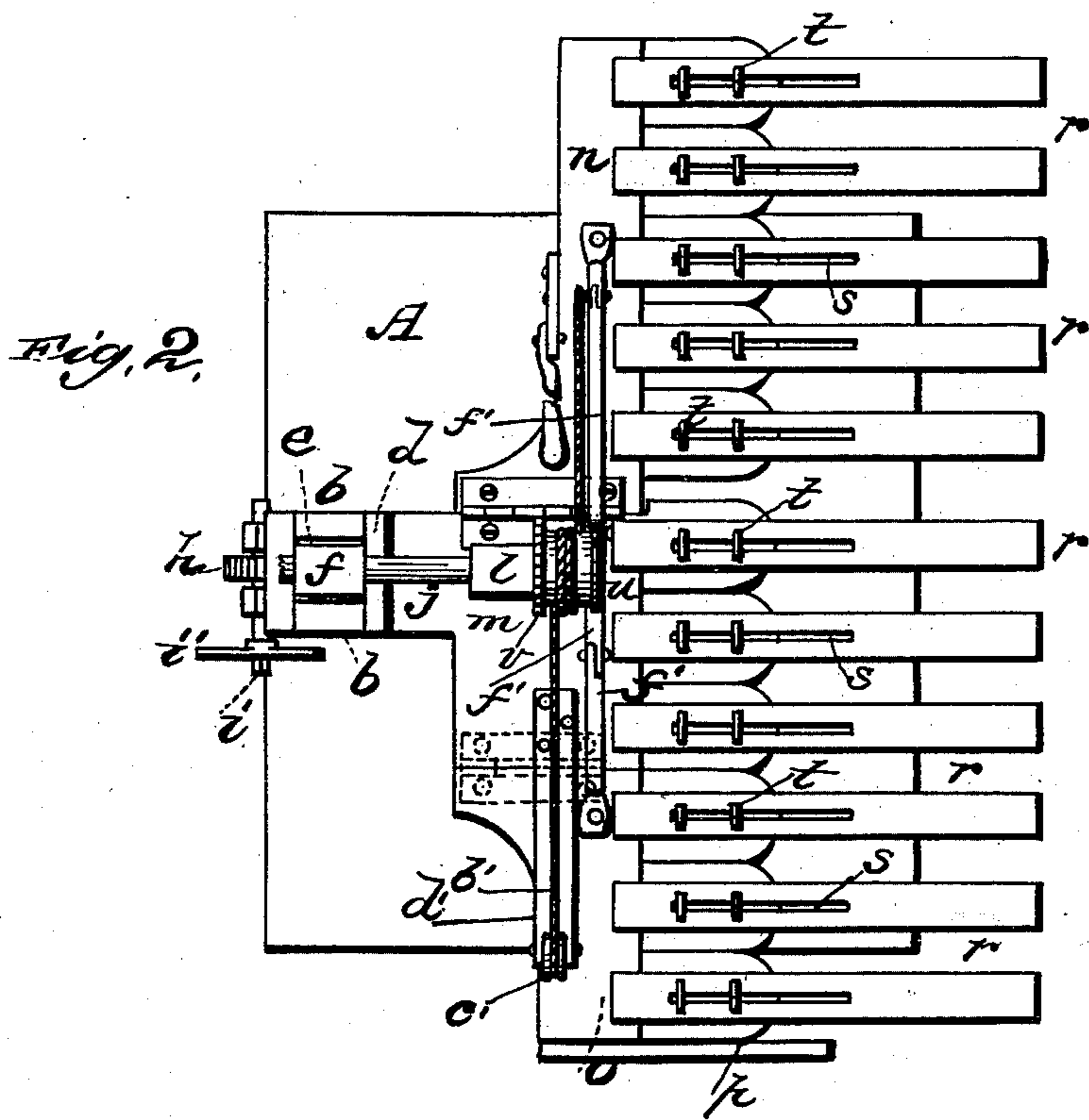
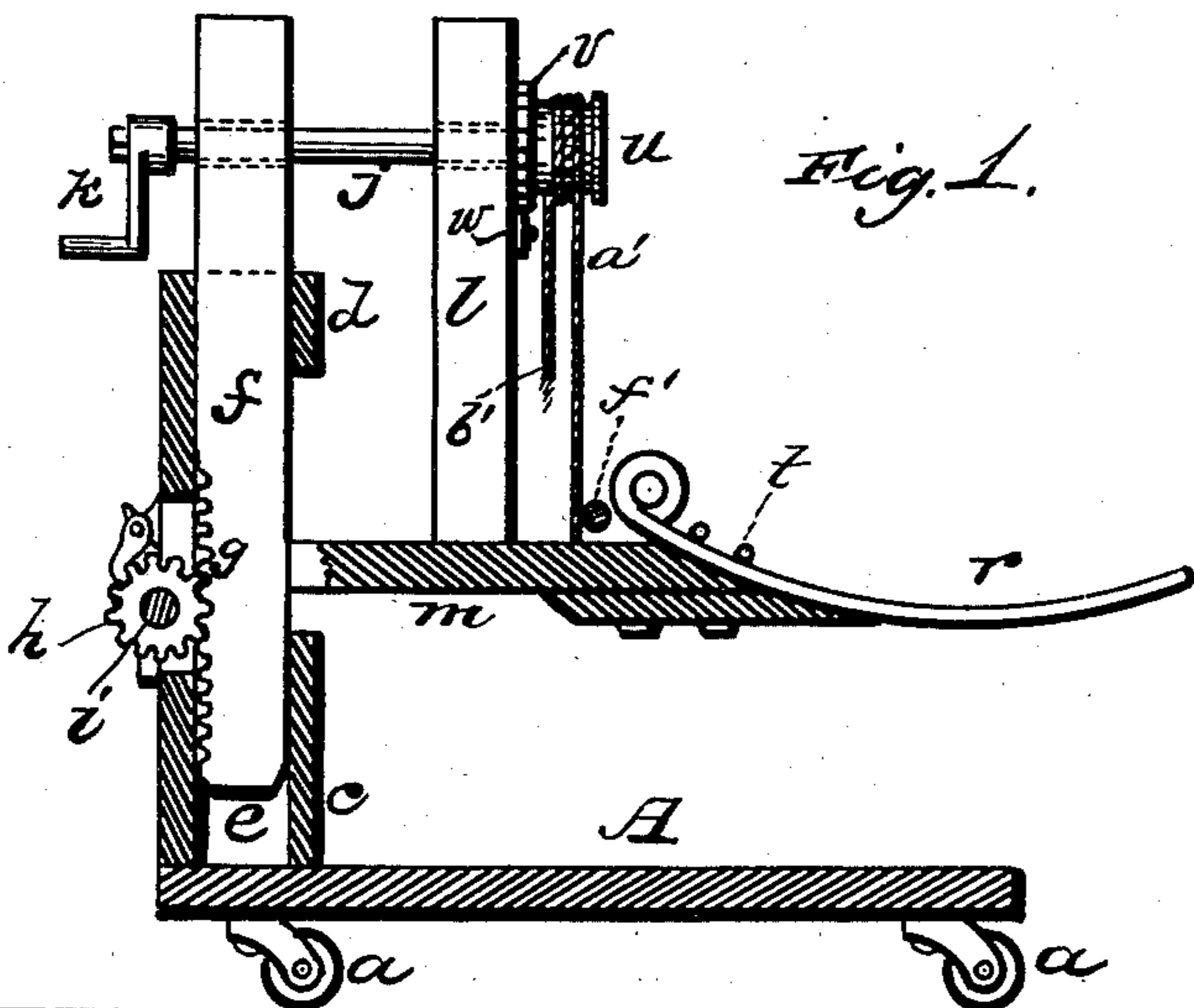
2 Sheets—Sheet 1.

S. J. & M. G. RHOADS.

INVALID SUPPORTER.

No. 312,763.

Patented Feb. 24, 1885.



WITNESSES

INVENTORS.

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(No Model.)

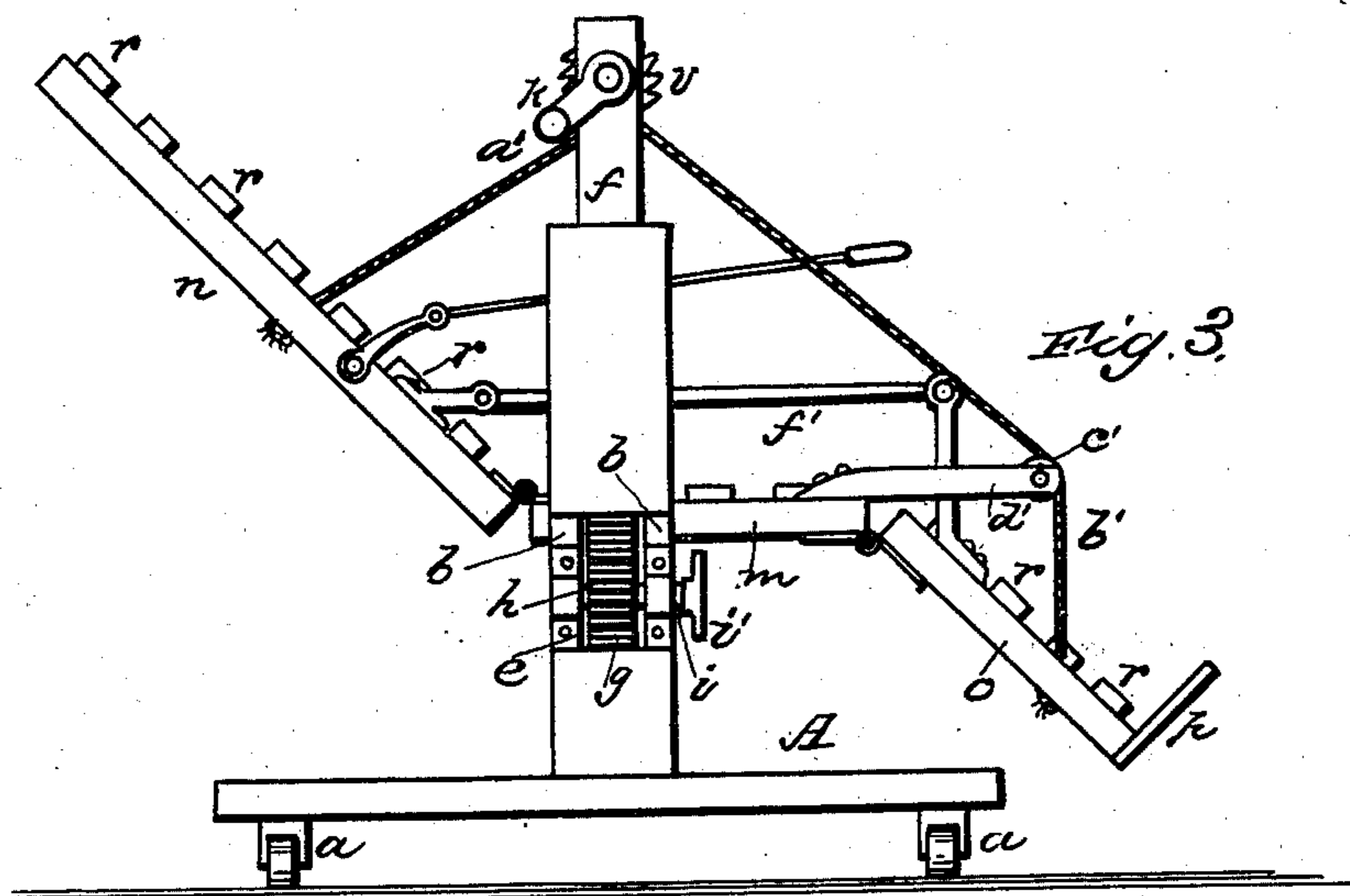
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UNITED STATES PATENT OFFICE.

SOLOMON J. RHOADS AND MORTON G. RHOADS, OF METROPOLIS, ILLINOIS.

INVALID-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 312,763, dated February 24, 1885.

Application filed March 27, 1884. (No model.)

To all whom it may concern:

Be it known that we, SOLOMON J. RHOADS and MORTON G. RHOADS, both citizens of the United States, residing at Metropolis, in the county of Massac and State of Illinois, have invented certain new and useful Improvements in Invalid-Supporters, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to devices for handling, transporting, and assisting invalids; and it consists in the novel construction and arrangement of the same, whereby an invalid may be raised with ease and gently removed from the bed and transported from one place to another and replaced in bed without jarring, at the same time affording the patient a reclining position, an upright position, as well as a horizontal position when the person is on the device, all as will be hereinafter more fully explained, and particularly pointed out in the claims appended.

The annexed drawings, to which reference is made, fully illustrate our invention, in which Figure 1 represents a vertical sectional view of our invalid-supporter. Fig. 2 is a top or plan view of the same. Fig. 3 is a rear view.

Referring by letter to the accompanying drawings, A designates a platform or base, the under side of which is provided with caster-wheels *a*, upon which the device is transported from place to place. Upon and arising from this platform are two standards, *b b*, connected at the bottom by a cross bar, *c*, and near their top by a cross-bar, *d*, between which standards is a vertical space, *e*, in which plays a vertical post, *f*, that is provided with a rack-bar, *g*, which engages by its teeth a pinion, *h*, on a shaft, *i*, journaled in bearings on the standards. Said shaft is provided with a hand-lever, *i'*, for turning the pinion, for a purpose hereinafter explained. Near the upper end of the ratchet-post aforesaid the same is transversely perforated to receive one end of a shaft, *j*, having a crank-handle, *k*, while the opposite end of said shaft has its bearing in a support, *l*, which is supported upon a bar, *m*, secured to and projecting from the rack-bar or post *f*, above mentioned. Hinged to each side of this bar *m* is a long arm, *n*, and a short arm, *o*, the latter having a foot-rest, *p*, and to these

arms *n* and *o*, as well as the bar *m*, are removably applied curved fingers *r*, which are longitudinally slotted, as at *s*, to receive a T-headed screw, *t*, by means of which said fingers are adjustably applied to the arms aforesaid.

To the end of the shaft *j* is secured a pulley, *u*, having a ratchet, *v*, to engage the pawl *w* on the post *l*. Secured to this pulley is a cord, *a'*, that is wound in opposite directions, the end *b'* of which passes over a pulley or roller, *c'*, in the end of an arm, *d'*, secured to the bar *m*, and the end of said cord is secured to the arm or foot-rest portion of the device, while the opposite cord is secured by its end to the opposite arm, and this arm is provided with a hand-lever, *e'*, and a jointed arm-rest, *f'*, as shown in the drawings.

The operation of this device is as follows: The supporter is moved upon its caster-wheels to the side of the bed and the fingers are slid beneath the patient, after which the pinion engaging the rack-bar on the sliding post is revolved, thereby raising the hinged arms, with the fingers, as well as the patient thereon, sufficiently high to clear the bed, after which the device can be moved from place to place with ease, and carrying therewith the patient; and when it is desired to replace the invalid in bed the device is moved close to the side thereof, the arms, with their fingers, lowered until the person is upon the bed, when said fingers are withdrawn from beneath the patient, thus leaving the latter on the bed. When the person is on the fingers and desires an inclined or an upright position, the crank-handle is turned, thus winding upon the pulley *u*, raising the arm *n*, at the same time the cord *b'* is unwinding from said pulley, and allows the arm, with its foot-rest, to be lowered.

It will be seen from the above description and by reference to the annexed drawings that an invalid can be gently raised out of bed, carried about the room, either in a horizontal, reclining, or an upright position, and gently replaced in bed without the slightest shock; and to prevent any noise from the caster-wheels the periphery of the latter may be supplied with rubber tires, and at the same time it is durable and cheap to manufacture.

Having described our invention, what we

claim, and desire to secure by Letters Patent, is—

1. In an invalid-supporter, the combination of the platform A, mounted on caster-wheels 5 and provided with standards *b b*, the bar *m*, having standard *l* and hinged arms *n* and *o*, the said bar *m* and wings *n* and *o* being provided with adjustable fingers, the crank-shaft *j*, pulley *u*, cords *a' b'*, and pawl and ratchet 10 *v*, all operating substantially as described.

2. A portable support for invalids, consisting of a platform mounted upon caster-wheels, standards *b b*, bar *m*, having hinged wings *n* and *o*, the vertically-sliding rack-bar *f*, secured 15 to said bar *m*, the said bar *m* and arms *n* and *o* being provided with adjustable fingers, hand-lever *i'*, pinion *h*, and pawl, all operating substantially as described.

3. In an invalid-supporter, the combination of the platform A, mounted on caster-wheels 20 and provided with standards *b b*, the bar *m*, having standards *l* and hinged arms *n* and *o*, said bar *m* and arms *n* and *o* being provided with adjustable fingers, the rack-bar *f*, pinion *h*, crank-shaft *j*, pulley *u*, and ropes *a'* and *b'*, 25 all operating substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

SOLOMON J. RHOADS.
MORTON G. RHOADS.

Witnesses:

J. F. McCARTNEY,
J. C. COURTNEY.