

No. 688,416.

Patented Dec. 10, 1901.

J. M. HOPPHAN.
PEDALING MECHANISM.
(Application filed May 31, 1901.)

(No Model.)

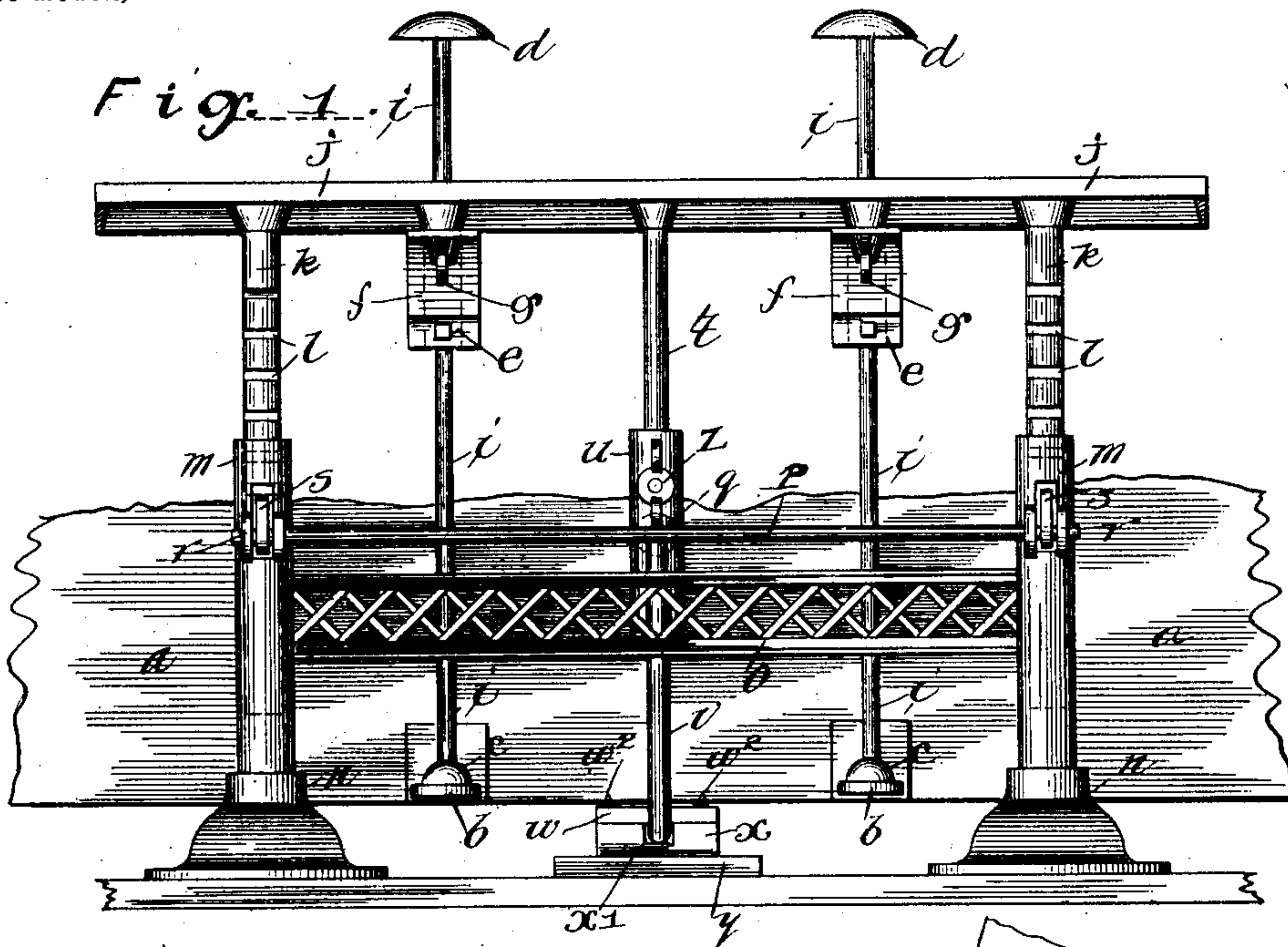
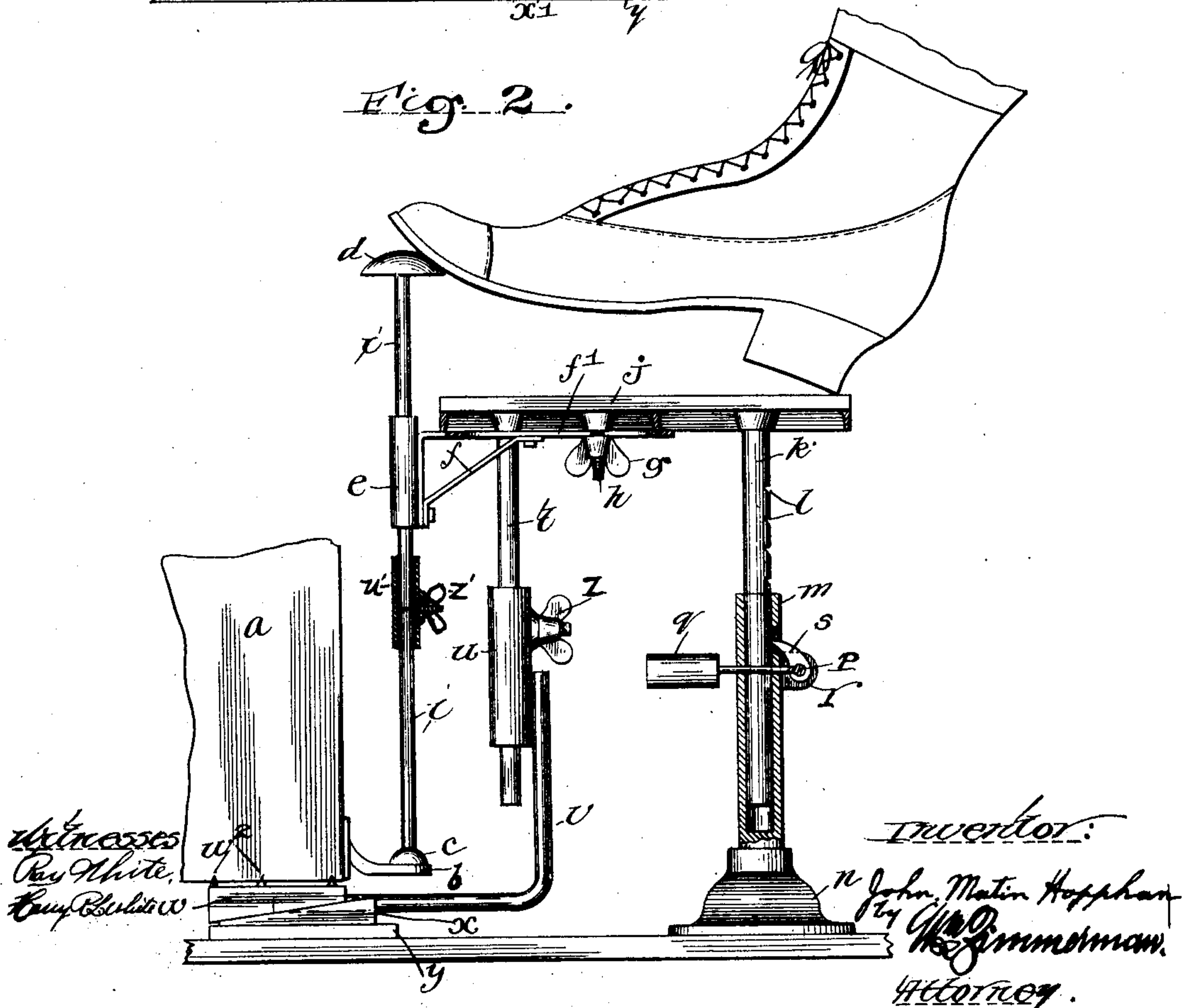


Fig. 2.



UNITED STATES PATENT OFFICE.

JOHN MARTIN HOPPHAN, OF CHICAGO, ILLINOIS.

PEDALING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 688,416, dated December 10, 1901.

Application filed May 31, 1901. Serial No. 62,484. (No model.)

To all whom it may concern:

Be it known that I, JOHN MARTIN HOPPHAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pedaling Mechanism, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 shows my said piano pedaling device in front elevation. Fig. 2 shows an end elevation of the same, partly in section, and with parts removed to give a free view of what is to be shown.

Like reference-letters denote like parts throughout both views.

The object of my invention is to produce a mechanical device wherewith the pedals of pianos may be operated by players of short or ungrown stature. To attain said desirable end, I construct my said device in substantially the following manner, namely:

On the pedal *b* is placed a pedal-pillar, which consists of a rod *i*, with a base *c* resting on the pedal *b* and a head *d* for the foot of the player. Said rod *i* reciprocates in a guiding-tube *e*, which is held by an adjustable bracket *f*, held on the under side of the foot-table *j*, from which projects a screw-stud *h*, with a wing-nut *g*. Said stud passes through a long slot *f'* (shown in section) in the bracket, whereby said bracket may be set toward or from said table, also in any lateral direction.

In about the longitudinal center and near the farther edge of the table *j* is a rod *t*, reciprocable in a tube *u*, attached to the vertical part of a right-angled rod or arm *v*, whereof there is a horizontal part provided with a wedge *w*, having vertically-projecting teeth *w*² on its upper edge and horizontal surface, which is parallel with the face of the bottom of the instrument *a* and of which the base is at the farther end, as shown, and to said wedge is a counterpart wedge *x*, out of which is cut a channel *x'* to admit the horizontal part of the rod *v*, and under said wedge *x* is placed, when necessary, a board *y*, on which the wedge *x* slides and wherewith the teeth *w*² are driven into the lower face of the instrument *a*. A nut *z* binds the parts *u t* into fixed adjustment.

Near the near edge of the table *j* and near each end thereof are rods or pillars *k*, which slide in tubular floor-pillars *m* on bases *n*. Said pillars are fixedly connected by a truss *o* and a revoluble rod *p* playing in a pair of lugs *r* at each of its ends on the pillars *m*, and between said lugs are pawls *s*, whereof the points pass through openings in said pillars into notches *l* in the parts *k*. A horizontal rod, with weight *q*, fixed into the shaft *p*, throws the points of said pawls into said notches *l*. This construction for holding said rods is only an illustration of one of many obvious ways for adjusting the table *j*. Mechanism like the parts *q r s* may also be applied to the part *u* for the adjustment of the foot-table.

The placing of the wedge *w* sets the part *u* in close to or distant from *a*, which correspondingly places and then fixedly holds said table to its position. The adjustment of the bracket *f* places the pedal-pillars in their true position. Said pillar *i* may also consist of adjustable parts held together by parts *u' z'*, similar, for instance, to the parts *t u v*.

What I claim is—

1. In pedaling mechanism the combination with a vertically-adjustable table and a pedal-pillar, of supporting mechanism for said pillar radially reciprocable and angularly adjustable relative to the table, substantially as specified.

2. The combination with a vertically-adjustable table and automatically-acting pawls to hold and release said table, of a bracket under said table, horizontally adjustable on a pivot, and a reciprocable pedal-pillar in said bracket, substantially as specified.

3. The combination with a vertically and horizontally adjustable pillared table, means to hold said table fixedly in a horizontal direction, and automatically-acting pawls to adjust said table in its vertical direction, of a horizontally-adjustable bracket secured to the under side of said table and a freely-reciprocable pedal-pillar in said bracket, substantially as specified.

4. The combination with a vertically and horizontally-adjustable pillared table and means to hold said table fixedly in said positions, of a horizontally-adjustable bracket secured to the under side of said table and a

freely-reciprocable pedal-pillar in said bracket, substantially as specified.

5 The combination with a pedaling-table, a wedge, and an arm to the edge end of said wedge, of a longitudinally-grooved wedge opposed to said armed wedge, the contact-faces of said wedges being inclined to their opposed

outer faces and said outer faces being parallel to each other, substantially as specified.

JOHN MARTIN HOPPHAN.

Witnesses:

WM. ZIMMERMAN,
B. EVART SHERMAN.