

(No Model.)

N. P. ANDRUS.
Appliance for Lighting Looms.

No. 232,102.

Patented Sept. 14, 1880.

Fig 1

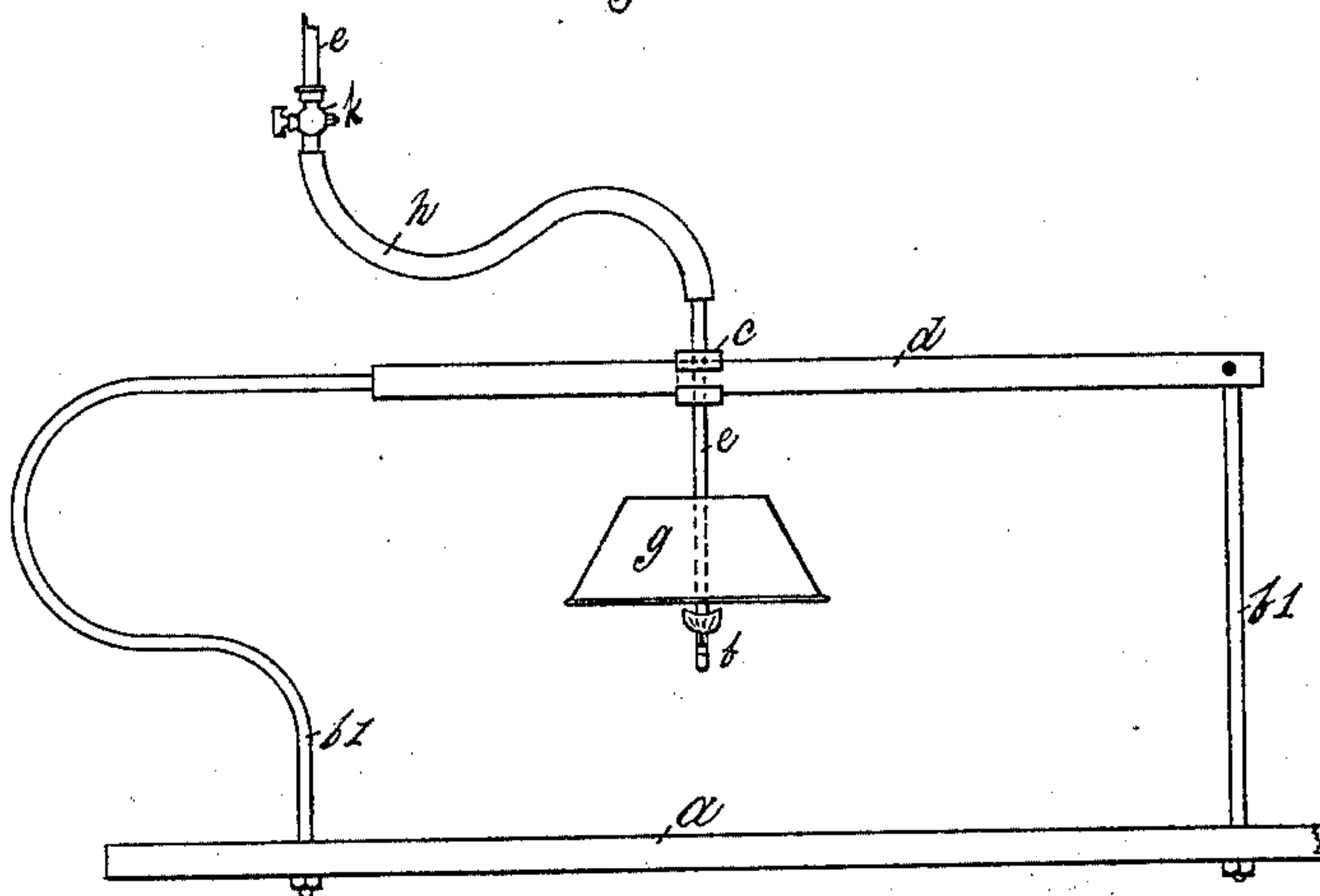


Fig 2

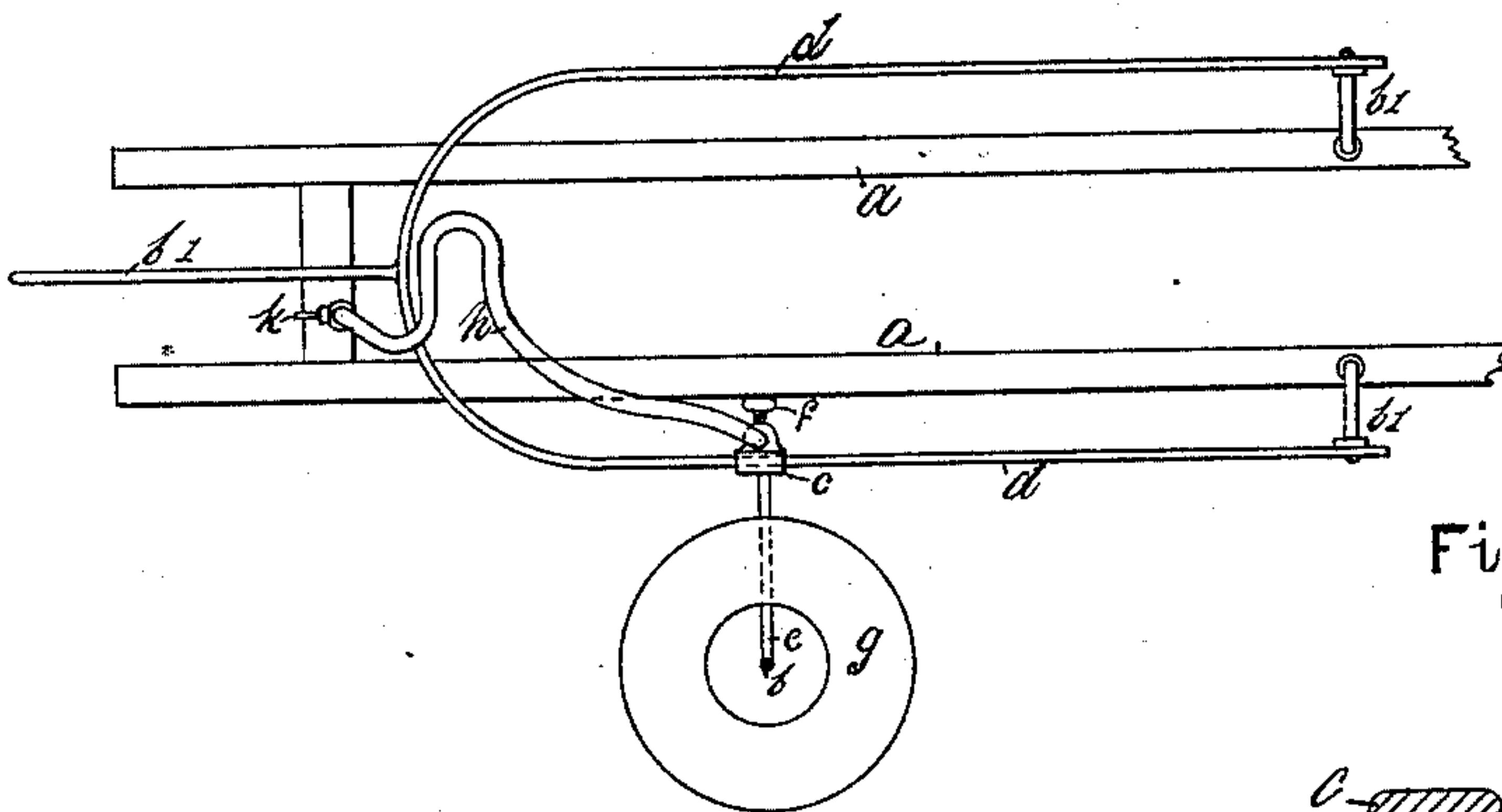
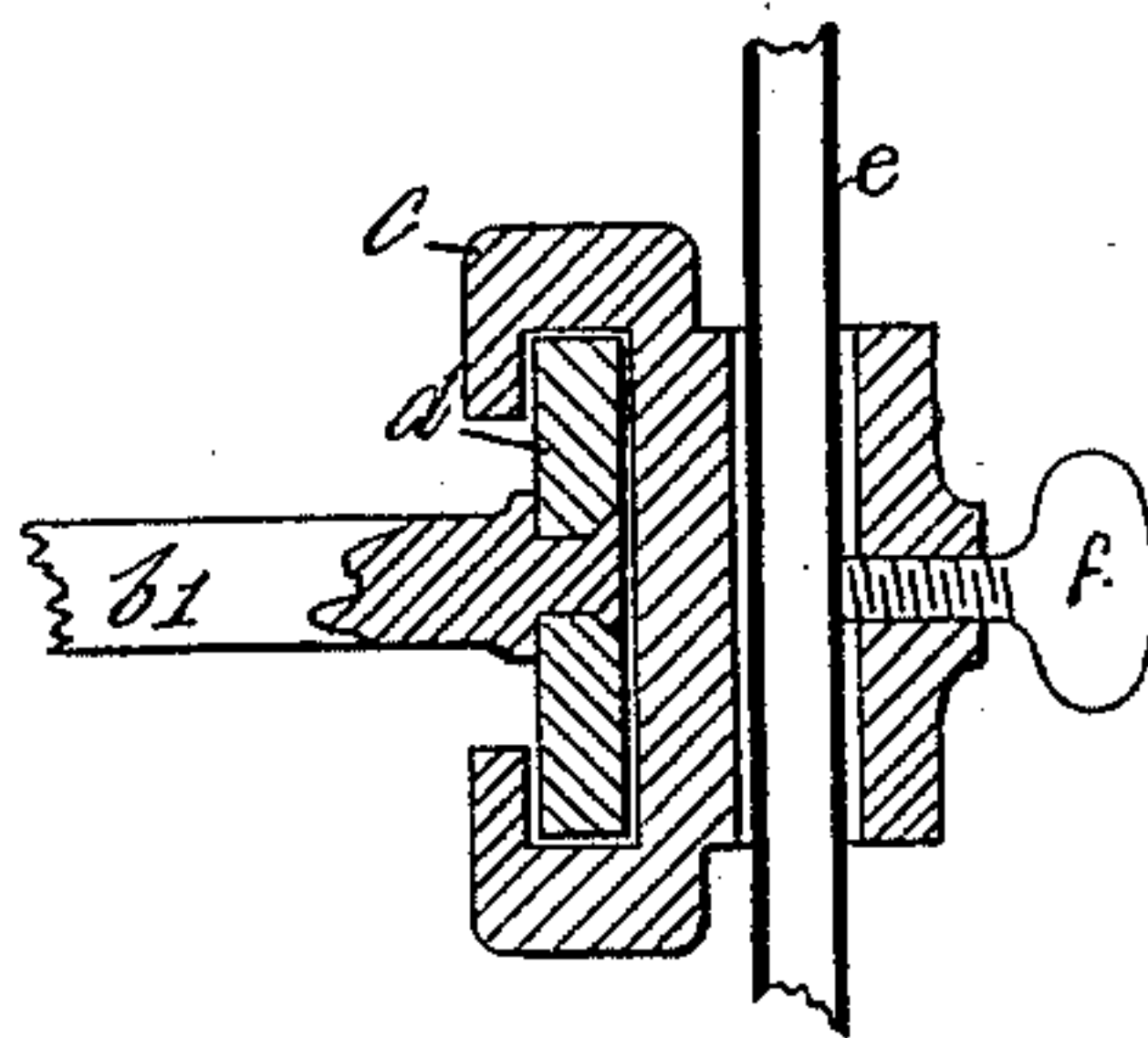


Fig 3



Witnesses
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UNITED STATES PATENT OFFICE.

NEWELL P. ANDRUS, OF PATERSON, NEW JERSEY, ASSIGNOR OF ONE-HALF
OF HIS RIGHT TO SAMUEL THORP, OF SAME PLACE.

APPLIANCE FOR LIGHTING LOOMS.

SPECIFICATION forming part of Letters Patent No. 232,102, dated September 14, 1880.

Application filed May 25, 1880. (No model.)

To all whom it may concern:

Be it known that I, NEWELL P. ANDRUS, of the city of Paterson, county of Passaic, and State of New Jersey, have invented a new and
5 useful Appliance for the Better Lighting of Looms, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is the production
10 of an appliance that will more effectually and safely light Jacquard looms than any now in use for that purpose.

My invention consists of the following devices, illustrated in Figure 1, which is a side
15 elevation of my newly-invented appliance. Fig. 2 is a plan view of the same, and Fig. 3 is a sectional view.

d indicates a slide-bar, made of iron, which is riveted or otherwise secured to standards
20 *b'*, the standards *b'* being secured to the rails *aa* of the loom. The standards *b'* are made of a suitable length to elevate the slide-bar *d* to the desired height above the rails of the loom to light the parts requiring the most light,
25 and are placed far enough from the harness of the loom (not here shown, but which is located between the rails *aa*) to remove all danger of setting fire to the harness when the light is being used. The slide-bar *d* is taken
30 along the front part of the loom, and around one end of the same, along the back, to a point even with its starting on the front, which takes the light near enough to the end around which the light does not pass to light all of
35 its parts. That part of the slide-bar *d* that passes around the end of the loom is made circular in form, in order to accommodate a bracket, *c*, which is adapted to slide on and around the bar *d*. The bracket *c* is also
40 adapted by its construction to receive and hold a pipe, *e*, as shown in Fig. 1. To the pipe *e* is attached a flexible tube, *h*. The other

end of the flexible tube *h* is secured to a supply-pipe located above the loom, as shown in Fig. 1, by means of a cock, *k*, to the pipe *e*.
45 Secured to bracket *c* there is a burner, *b*, with which the pipe *e* is provided, over which there is suitably arranged a reflector, *g*, which serves to reflect the light from the burner *b*.

The gas is caused to flow from the supply-
50 pipe through the flexible tube *h* and pipe *e* to the burner *b* by turning the cock *k*. The gas is lighted at the burner *b*, and may be transferred to any part of the loom desired by simply sliding the bracket *c* over the slide-bar *d*,
55 the flexible tube *h* being long enough to admit of the bracket's transfer to the place desired.

Looms are now lighted by the ordinary gas-brackets, which are often, by accident or
60 otherwise, thrown in the harness, setting fire thereto, which cannot occur by my new appliance, as the slide-bar is rigidly held in position by the standards, and the bracket can only
65 move as moved on the rigid slide-bar.

Having described my appliance and its mode of operation, what I claim as new, and desire to secure by Letters Patent, in a device or appliance for lighting Jacquard looms, is—

1. The combination of the bracket or block *c*,
70 adapted to slide on the slide-bar *d*, pipes *e*, flexible tube *h*, cock *k*, and reflector *g*, substantially as described, and for the purpose set forth.

2. The combination, with the bracket or
75 block *c*, adapted to slide on the slide-bar *d*, of the slide-bar *d*, standards *b'*, and rails *aa*, substantially as described, and for the purpose set forth.

NEWELL P. ANDRUS.

Witnesses:

JOHN INGLIS,
KITTIE INGLIS.