

W. Mason.
Shuttle Motion.

N^o 78,463.

Patented Jun. 2, 1868.

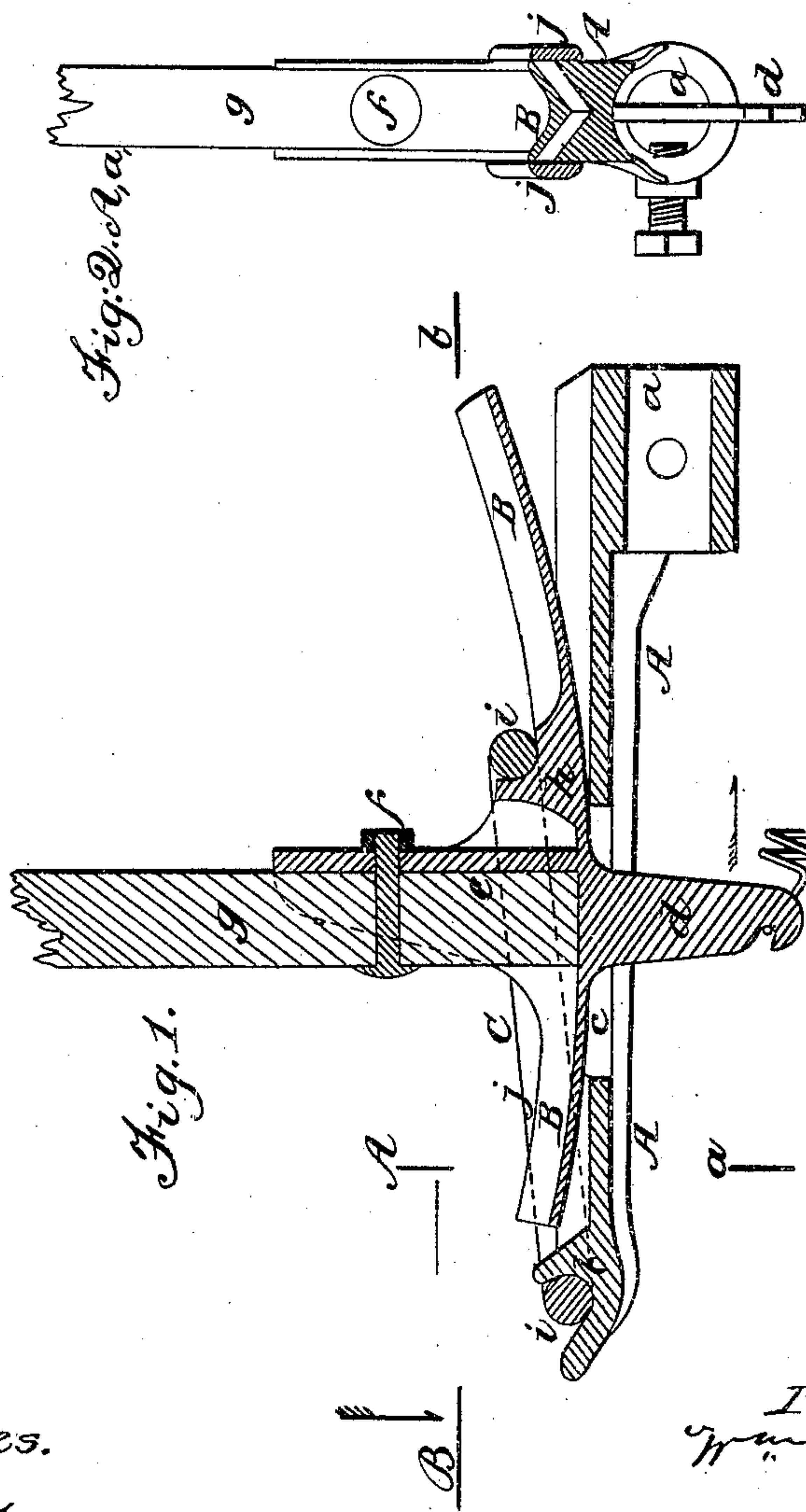
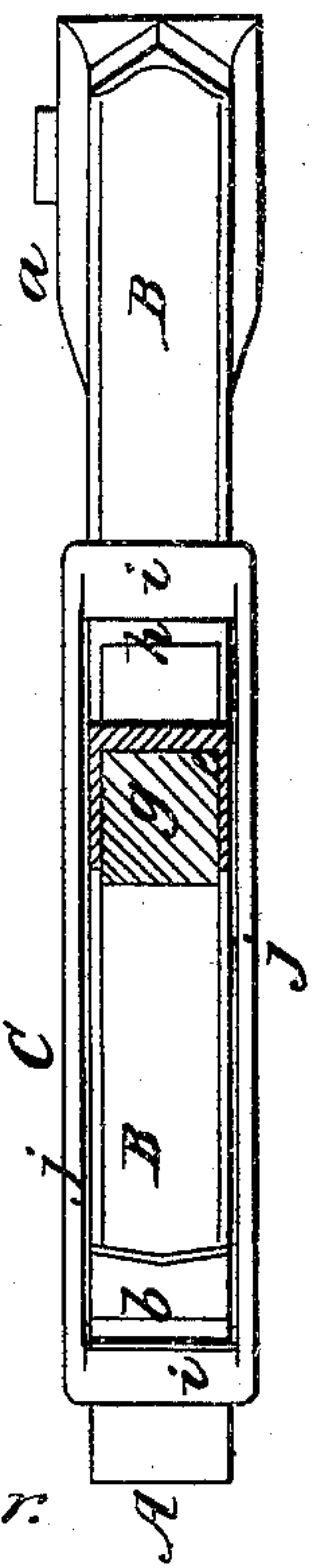


Fig. 2. A, a,

Fig. 3. B, b,



Witnesses.
W. A. Phelps.
A. DeLacy.

Inventor.
Wm Mason
by his attorney.
C. W. Keller.

United States Patent Office.

WILLIAM MASON, OF TAUNTON, MASSACHUSETTS.

Letters Patent No. 78,463, dated June 2, 1868.

IMPROVEMENT IN MOUNTING PICKER-STAFFS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM MASON, of Taunton, in the State of Massachusetts, have invented certain new and useful Improvements in the Manner of Mounting the Picker-Staffs for Driving the Shuttle in Power-Looms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical section taken in the longitudinal central plane of the rocker of the picker-staff.

Figure 2, a cross vertical section taken in the plane of the line A *a* of fig. 1; and

Figure 3 a horizontal section taken in the plane of the line B *b* of fig. 1.

The same letters indicate like parts in all the figures.

My said invention relates to an improvement on the well-known method of mounting picker-staffs on rockers, by which improvement I am enabled to make them cheaper than and quite as efficient as by any other known mode of construction.

In the accompanying drawings, A represents the rocker-bed, cast with a socket, *a*, at one end, by which it is attached to the loom. The upper surface on which the rocker works is, as usual, straight, in the direction of the length, but in the cross-section it is made concave, of a V-shape, to within a short distance of the outer end, where it is formed with a cross semi-cylindrical box, *b*, to receive one end of a link, to be presently described; and near the middle of its length it is formed with a vertical mortise, *c*, through which the stem of the rocker passes, and in which it plays freely.

The rocker B longitudinally is, as usual, in the form of a segment of a circle, but in the cross-section it is of an inverted V-shape, to fit the concave of the bed. It has a short stem or arm, *d*, which extends through the mortise *c* in the bed, and by which it is, as usual, connected with a spring, for drawing back the picker-staff. The upper part is suitably formed with an open socket, *e*, to receive, and in which is secured by a screw-bolt, *f*', the lower end of the staff *g*. Back of the socket *e* it is formed with a cross semi-cylindrical box, *h*, like the one, *b*, at the outer end of the bed A.

There is an open link, C, consisting of two cylindrical journals *i i*, connected by side-bars *j j*. One of the end journals fits and works in the semi-cylindrical box *b* at the outer end of the bed A, and the other in the semi-cylindrical box *h* of the rocker. As the tension of the usual spring attached to the arm *d* of the rocker tends to draw the rocker in the direction of the arrow, the link C keeps it in its right place on the bed, and by reason of its end journals working in the semi-cylindrical boxes, permits the required rocking motion to take place freely, whilst at the same time the form of the upper surface of the bed, and of the under surface of the rocker, prevents the picker-staff from wobbling or moving sidewise.

By the mode of construction above described, I am enabled to make the whole structure of three pieces, the bed A, the rocker B, and the open link C, each of which can be readily cast, and the three put together, and used without any finish beyond the usual cleaning operation to which castings are subjected.

What I claim as my invention, and desire to secure by Letters Patent, as an improvement on the well-known picker-staff rocker, is—

The bed, formed with a V-shaped groove, and the rocker, with its under surface of the corresponding form, in combination with the open link, by which the rocker is kept in place on the bed, substantially as and for the purpose set forth.

WM. MASON.

Witnesses:

CHARLES R. OLNEY,

WM. H. BENT.