

M. C. BURLEIGH.

Improvement in Loom-Picking Mechanism.

No. 130,108.

Patented Aug. 6, 1872.

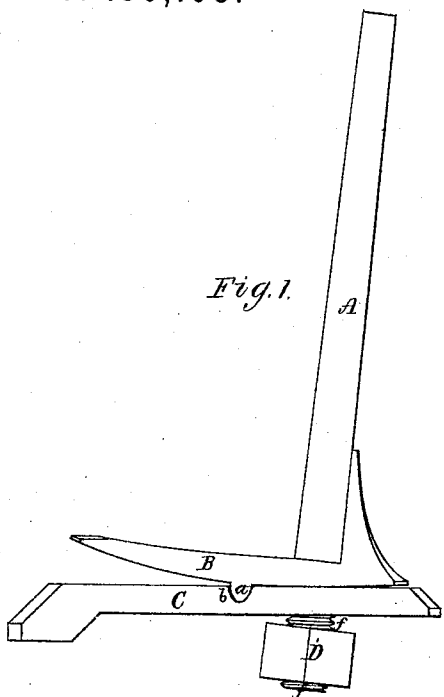


Fig. 1.

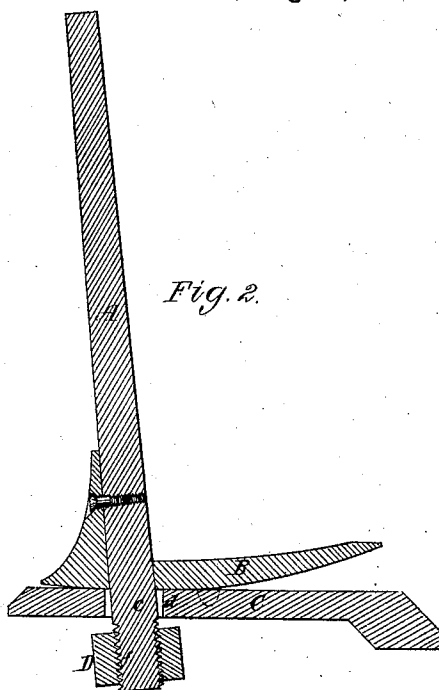


Fig. 2.

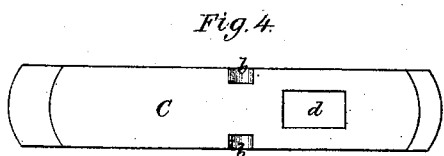


Fig. 4.

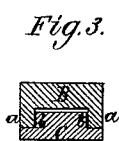


Fig. 5.

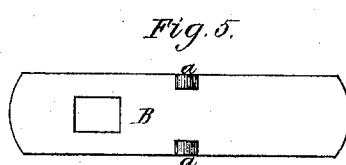


Fig. 6.

Witnesses:
S. N. Piper.
L. N. Waller.

M. C. Burleigh.
by his attorney
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UNITED STATES PATENT OFFICE.

MICAJAH C. BURLEIGH, OF SOMERSWORTH, NEW HAMPSHIRE.

IMPROVEMENT IN LOOM PICKING MECHANISMS.

Specification forming part of Letters Patent No. 130,108, dated August 6, 1872.

To all persons to whom these presents may come:

Be it known that I, MICAJAH C. BURLEIGH, of Somersworth, of the county of Strafford, of the State of New Hampshire, have invented a new and useful Improvement in Looms for Weaving; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a side elevation, and Fig. 2 a vertical section of a picker-motion as provided with my improvement.

In ordinary picker-motions a spring is generally employed to effect the retreat of the picker-staff. Owing to the frequent sudden strains to which the spring is subjected while the loom may be in operation, such spring is very liable to either break or become otherwise more or less inefficient. It is therefore a desideratum to dispense with a spring for such purpose. Instead of it I make use of a weight, so applied to the picker-staff and below its rocker-foot and the supporting-rail of the latter as not only to serve to effect the back motion or retreat of the staff, but as a stop to arrest it at the termination of each advance of it.

In the drawing, A denotes the picker-staff; B, its rocker-foot; and C, the supporting-rail or arm of the latter, there being two dents or teeth, *a a*, extended from the rocker-foot into notches or indents *b b* formed in the rail, such

dents and indents serving to prevent the picker-staff, or that part, *c*, of it which extends through the mortise *d* in the arm C, from rocking against either end of the said mortise.

Fig. 3 is a transverse section of the rocker-foot and its sustaining-arm, the section being taken through the dents and indents. Fig. 4 is a top view of the arm, and Fig. 5 a bottom view of the rocker-foot.

The dents and indents also aid in keeping the rocker-foot from moving laterally out of place relatively to the arm or rail C. Upon the lower end or part of the picker-staff, and below the arm C, a heavy weight, D, is screwed, so as to be adjustable vertically on the staff, there being a screw, *f*, formed on the staff to receive the weight. If desirable, there may be a check-nut on that part of the screw which may project below the weight. The operation of the weight will be readily understood so far as relates to stopping the picker-staff or effecting its retreat.

I claim—

The adjustable weight D, arranged and combined with the picker-staff, its rocker-foot, and the supporting-arm, substantially in manner and to operate as specified.

MICAJAH C. BURLEIGH.

Witnesses:

R. H. EDDY,
J. R. SNOW.