

R. DAVIS.

Loom-Picking Stick-Checks.

No. 141,496.

Patented August 5, 1873.

Fig. 1.

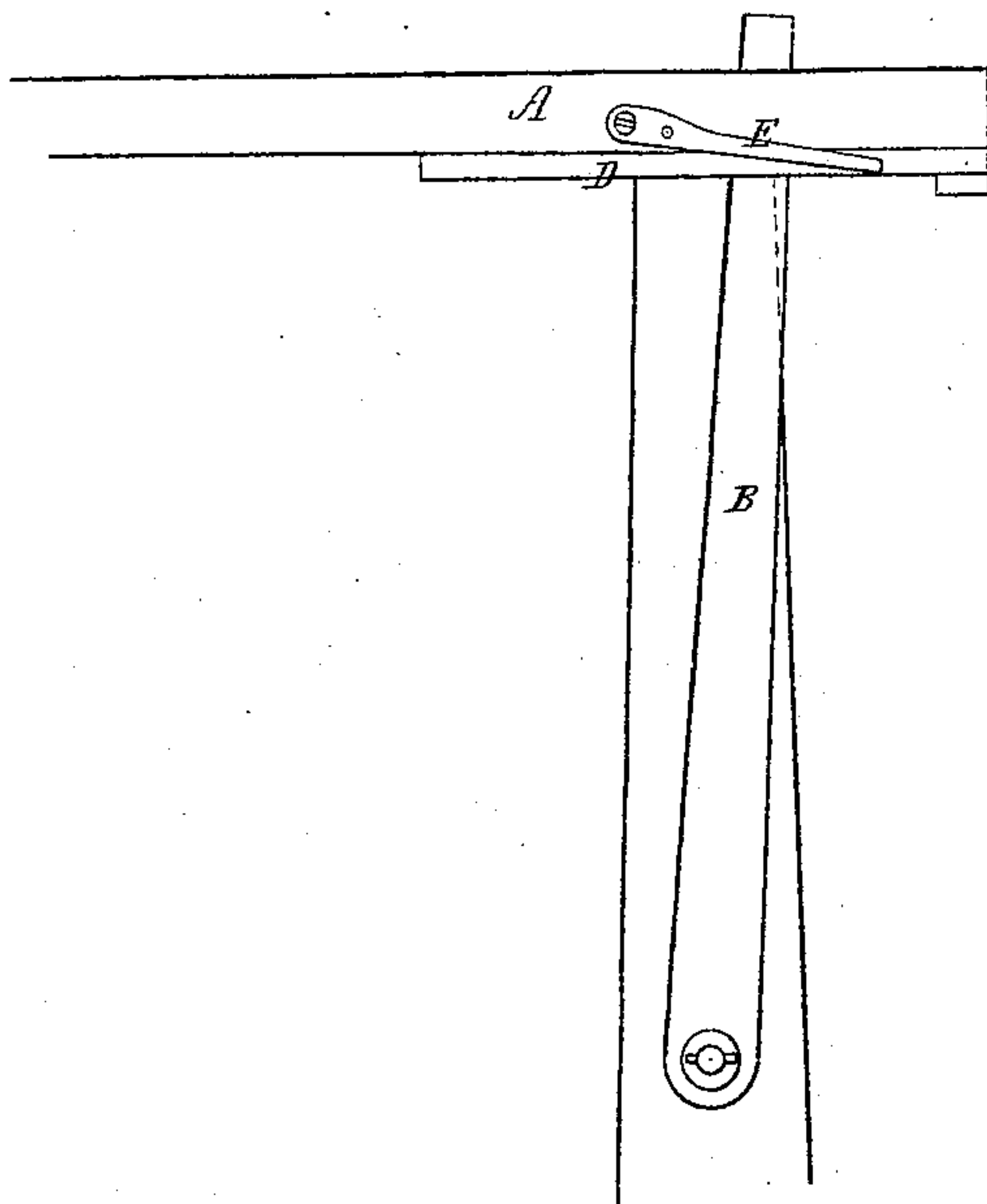


Fig. 2.

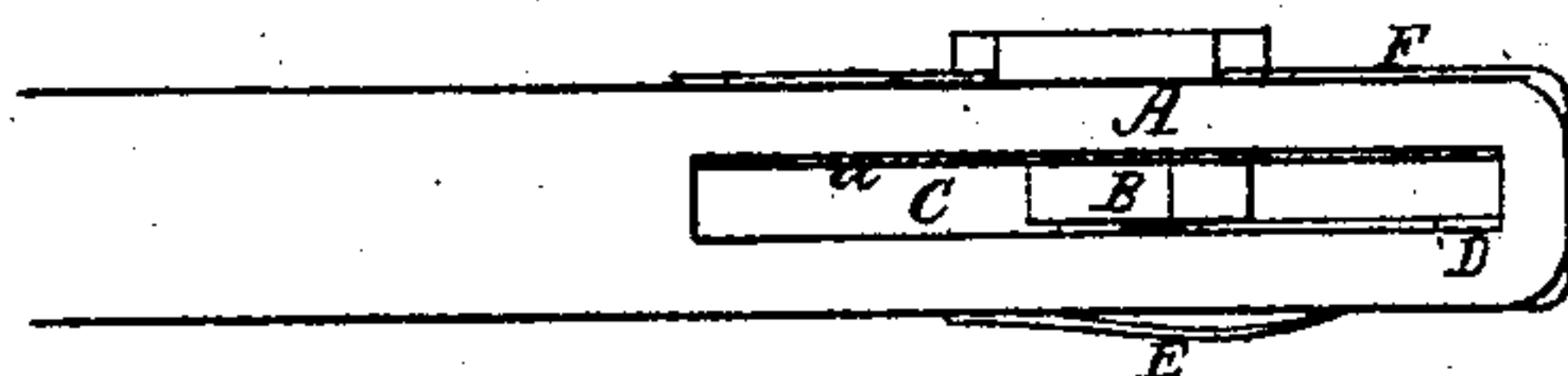
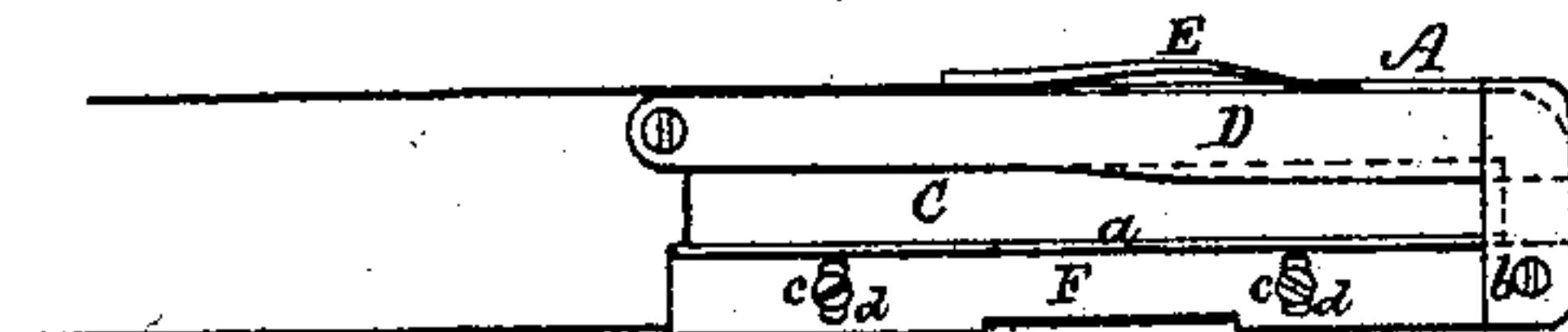


Fig. 3.



Witnesses.

S. W. Piper.  
L. O. Miller.

Robert Davis.

by his attorney

R. H. Luey

# UNITED STATES PATENT OFFICE.

ROBERT DAVIS, OF LAWRENCE, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND PARKER C. KIRK, OF SAME PLACE.

## IMPROVEMENT IN LOOM-PICKING STICK-CHECKS.

Specification forming part of Letters Patent No. **141,496**, dated August 5, 1873; application filed  
June 25, 1873.

*To all whom it may concern:*

Be it known that I, ROBERT DAVIS, of Lawrence, of the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Looms for Weaving Cloth; and do hereby declare the same to be fully described in the following specification and represented in the accompany drawings, of which—

Figure 1 denotes a front elevation, and Fig. 2 a top view, of the picker-staff and part of the lay of a loom with my invention applied thereto. Fig. 3 is an under-side view of the lay, such view representing the friction brake or binder and the adjustable bearing-bar, to be hereinafter explained.

The purpose of the invention is to prevent the shuttle, after entering the box, from striking against the picker-staff and rebounding and causing the filling to be thrown off the bobbin or cop, the invention keeping the shuttle in its proper place in readiness for the next pick, which is of the utmost importance in fast-running looms.

The invention has proved to be one of great value and utility, as with it a loom, which without it, could not be safely run at more than one hundred and sixty picks per minute, could be so operated at the rate of two hundred and fifty picks per minute, thereby increasing the productive ability of the loom to a material extent.

In the drawings, A denotes the shuttle-box part of a race-beam of a loom, and B the picker-staff thereof, such staff extending through a slot, C, made down through the race-beam. Against one side of the picker-staff and underneath and against the race-beam is a brake,

D, pivoted at or near its inner end to the race beam and provided with a spring, E, to force it in contact with the picker-staff. Opposite the brake or binder D, and on the other side of the picker-staff, and fixed to the bottom of the race-beam, is a long adjustable bar, F, covered on its inner face or edge with leather, as shown at *a*. This bar is held to the race-beam by a pivot or screw, *b*, and also by two clamp-screws *c c*, the latter going through slots *d d* made in the bar. As the bar may become worn from time to time it may be moved inward and adjusted to the picker-staff in order to keep it out of contact with the side of the slot, as well as to aid in preserving it from rectilinear deviation during a throw of it. Furthermore, with the adjustable bar F the friction on the picker-staff may be increased, as occasion may require. The friction brake or bearer will give way to the picker-staff while being moved forward and backward by its operative mechanism, but will prevent the rebounding of the staff, which the ordinary shuttle-binder applied to the shuttle-box does not suffice to effect. Furthermore, the brake operates to gradually arrest the staff during its back movement and prevent the rebounding of the shuttle and the consequent waste of the filling.

I claim as my invention—

In combination with the picker-staff B, the race-beam A provided with the adjustable bar F, and the friction-brake D with its spring E, all operating together as specified.

ROBERT DAVIS.

Witnesses:

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