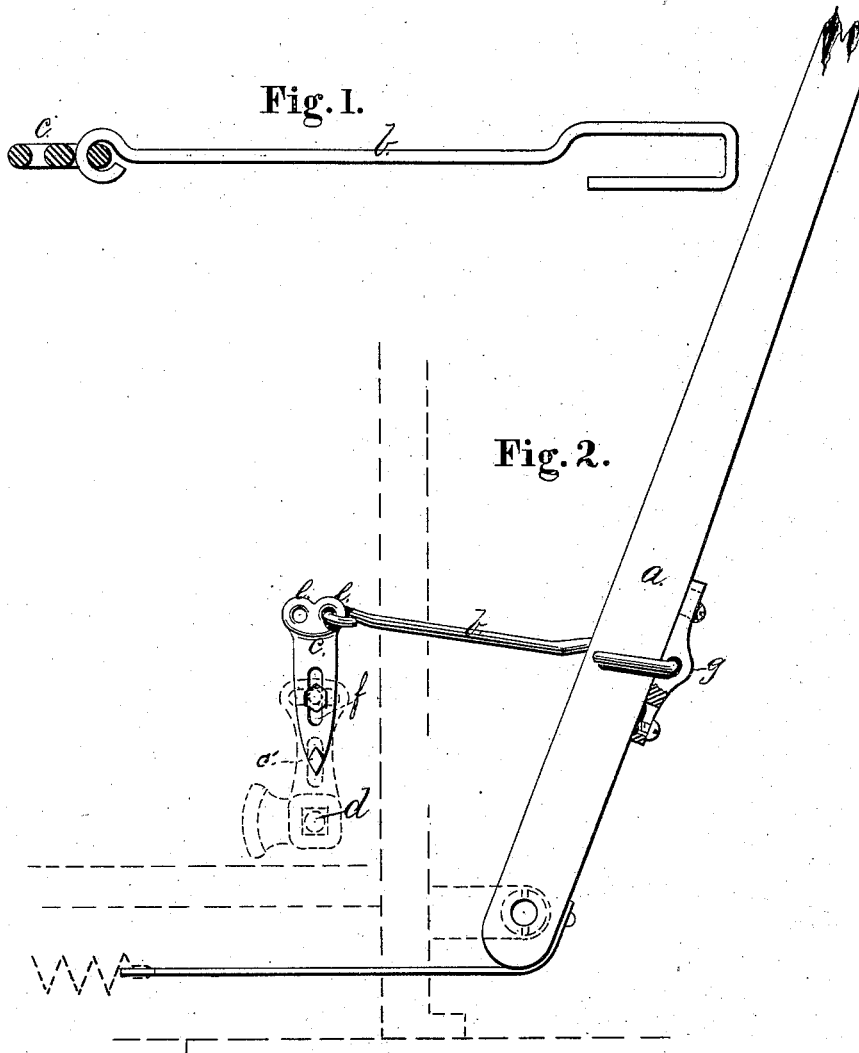


O. O'REILLY.
Shuttle-Operating Mechanism of Looms.
No. 214,696. Patented April 22, 1879.



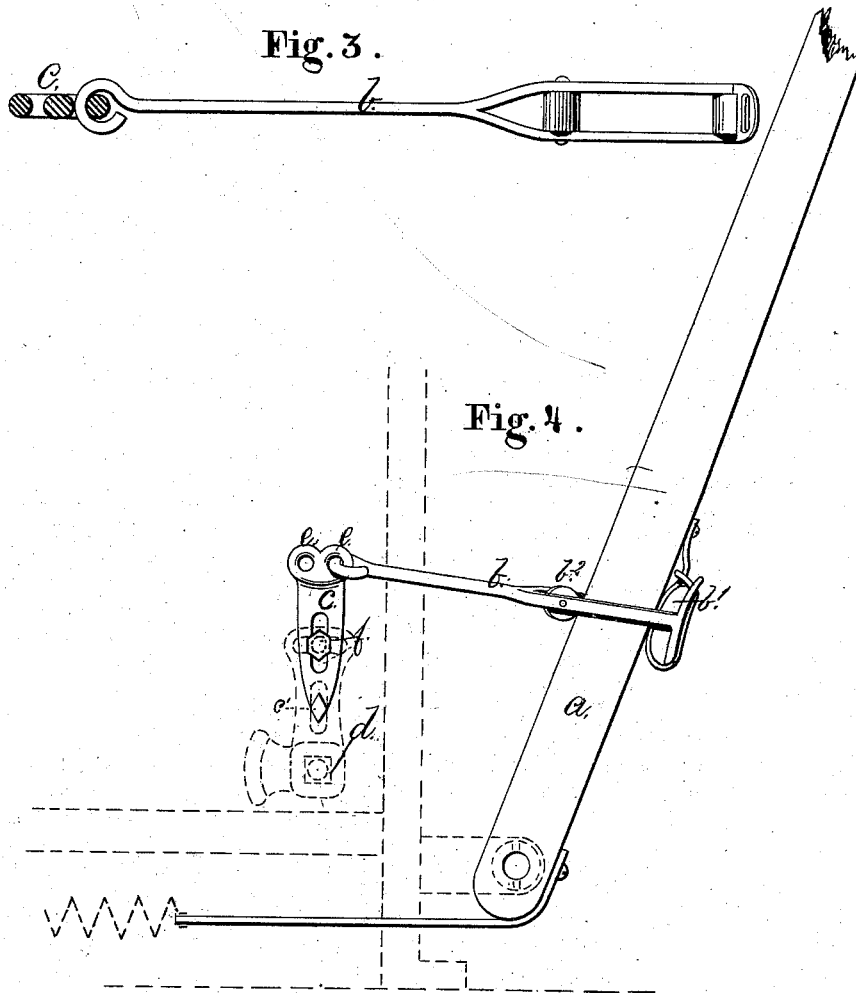
WITNESSES:

Joseph A. Miller Jr.
William L. Cooper

INVENTOR:

Owen O'Reilly
by Joseph A. Miller
attorney

O. O'REILLY.
Shuttle-Operating Mechanism of Looms.
No. 214,696. Patented April 22, 1879.



WITNESSES:

Joseph A. Miller Jr
William L. Cooper

INVENTOR:

Owen O'Reilly
by Joseph A. Miller
Attorney

UNITED STATES PATENT OFFICE.

OWEN O'REILLY, OF WESTERLY, RHODE ISLAND.

IMPROVEMENT IN SHUTTLE-OPERATING MECHANISMS OF LOOMS.

Specification forming part of Letters Patent No. **214,696**, dated April 22, 1879; application filed September 30, 1878.

To all whom it may concern:

Be it known that I, OWEN O'REILLY, of Westerly, in the county of Washington and State of Rhode Island, have invented new and useful Improvements in Shuttle-Operating Mechanisms of Looms; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

The invention consists in an improvement in picker-rods and their connection with the picker-staff and picker-arm of a loom.

Figure 1 is a top view of a picker-rod. Fig. 2 is a view, showing the connections between the picker-shaft and the picker-staff of a loom. Fig. 3 is a top view of another construction of picker-rod. Fig. 4 shows the same in connection with the picker-staff and picker-arm of a loom.

In the drawings, *a* represents the picker-staff of a loom; *b*, a connecting-rod, by which the picker-staff is connected with the picker-arm. *c* is an adjustable eye-piece, secured to the picker-arm. Its lower end is provided with a diamond-shaped projection, *c'*, which enters a slot on the picker-arm. It is also provided with a longitudinal slot, *f*, and is secured to the picker-arm by a bolt passing through the slot *f* and a slot in the picker-arm, so that the piece *c* may be raised or lowered and adjusted by the screw-bolt with which it is secured to the picker-arm. The eyes *e e* are rounded, as shown in Figs. 1 and 3, so that the connection with the picker-rod will be yielding and will not bind.

When the bent rod forming the picker-rod *b* is used, as shown in Fig. 1, the same is jour-

naled in an adjustable bolster, *g*, secured to the picker-staff, as shown in Fig. 2. When more elasticity is required, the rod *b* is bifurcated, so as to form a closed loop, and the elastic cushion *b'* is secured so as to bear on the picker-staff, and the elastic roller *b''*, journaled in the picker-rod *b*, bears against the front of the picker-staff. These elastic cushions break the force of the blow, and prevent the breaking of the picker-staff, while the loosely-journaled picker-rod prevents the strain incident in a more rigid connection.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a picker-arm provided with separate vertical and horizontal slots, of an eye-piece, *c*, having eyes *e e* formed on its upper end, and provided at its lower end with a lug or projection, which engages with the vertical slot in the picker-arm, and with a vertical slot which intersects the horizontal slot in the picker-arm, and means for fastening the picker-arm and eye-piece, connecting-rod *b*, and picker-staff *a*, substantially as set forth.

2. The combination, with the picker-arm, adjustable eye-piece *c*, connecting-rod *b*, and picker-staff *a*, of the elastic cushions *b'* and *b''*, substantially as set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

OWEN O'REILLY.

Witnesses:

JOSEPH A. MILLER,
J. A. MILLER, Jr.