

E. BEACH.
Shuttle-Guards for Looms.

No. 155,177.

Patented Sept. 22, 1874.

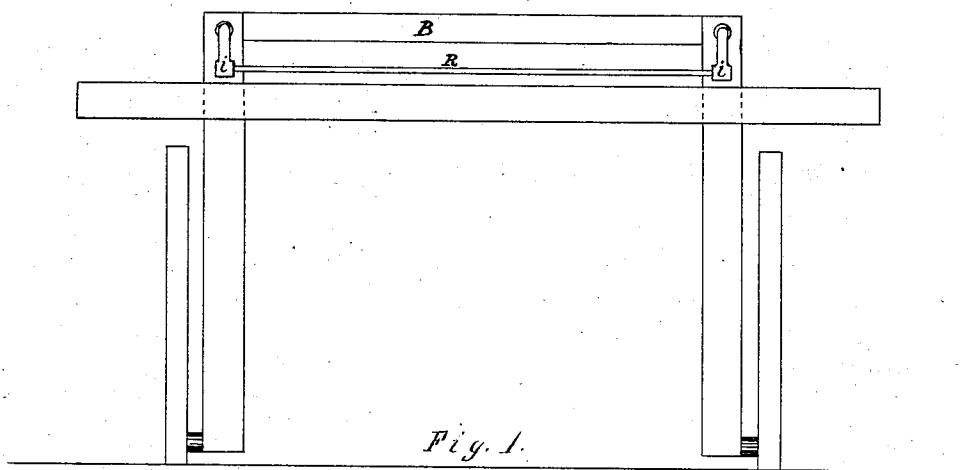
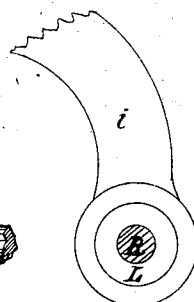
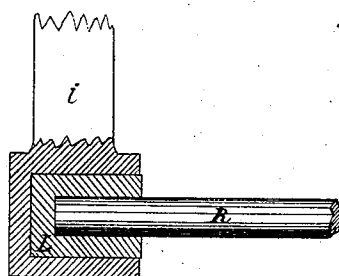


Fig. 2.



Witnesses { *Ezra B. Chadwick*
Charles W. Beach

Inventor *E. Beach*

UNITED STATES PATENT OFFICE.

ELAH BEACH, OF PROVIDENCE, R. I., ASSIGNOR OF TWO-THIRDS HIS RIGHT
TO WILLIAM B. BEACH AND CHARLES H. BEACH, OF SAME PLACE.

IMPROVEMENT IN SHUTTLE-GUARDS FOR LOOMS.

Specification forming part of Letters Patent No. **155,177**, dated September 22, 1874; application filed
May 16, 1874.

To all whom it may concern:

Be it known that I, ELAH BEACH, of Providence, Rhode Island, have invented an Improvement for Securing or Fastening the Shuttle-Guard to the Lay of a Loom, of which the following is a specification:

The object of my invention is to attach a shuttle-guard to the lay of a loom, so as to prevent the wear and breakage of the same.

The mode of fastening generally in use is to bolt a stand to each end of the lay and drill a hole in each of said stands about one-half of one inch deep, and of sufficient size to receive the end of the guard, thus permitting iron to rest against iron. In such case the result is if the guard fits closely in the hold of the stand, the constant beating of the lay keeps up a continuous vibration, which results in breaking the guard at the point of entrance into the stand. If it fits loosely it soon wears off.

The accompanying drawing shows my improvement.

Figure 1 represents the lay with the shuttle-guard attached; Fig. 2, one of the stands

which hold the ends of the shuttle-guard; Figs. 3 and 4, sections of the parts at the point of connection.

The stands *i i* are secured to the lay B by a nut on the back side of the lay, and are bent downward so as to bring their lower ends near to the web. I make the hole in the stand which is to receive the end of shuttle-guard R large enough to receive, first, a solid piece or pieces of leather or rubber or other yielding substance, and then drill a hole in the leather or rubber, or other substance, just large enough to admit the end of the shuttle-guard.

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with the lay of a loom, the shuttle-guard rod R and the bent stands *i i*, each provided with the piece L of leather or other yielding substance fitted to receive the end of the rod R, as and for the purpose set forth.

ELAH BEACH.

Witnesses:

JOHN MASON,
C. H. BEACH.