

(No Model.)

G. W. FARMER.
SHUTTLE GUIDE FOR LOOMS.

No. 528,505.

Patented Oct. 30, 1894.

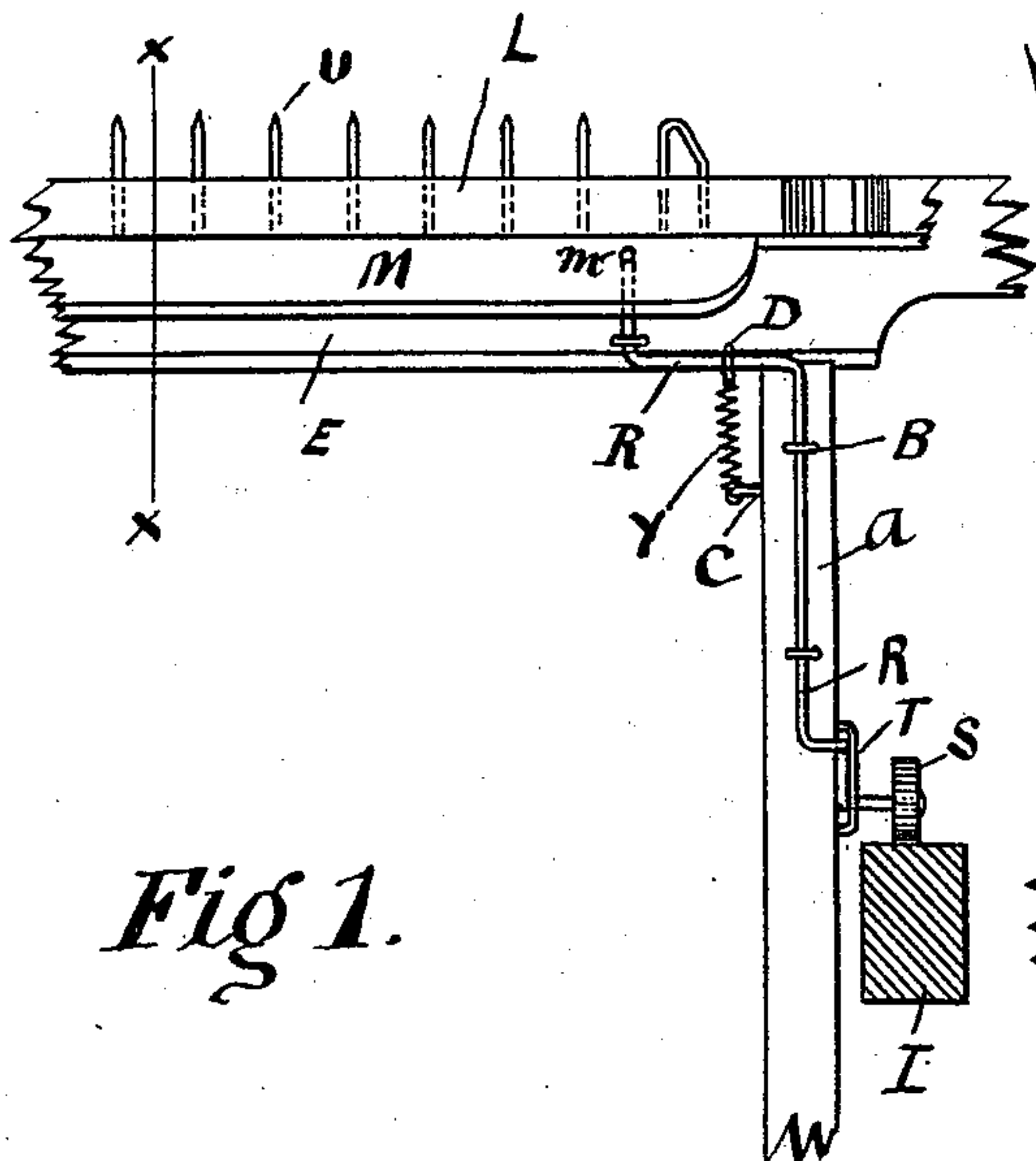


Fig 1.

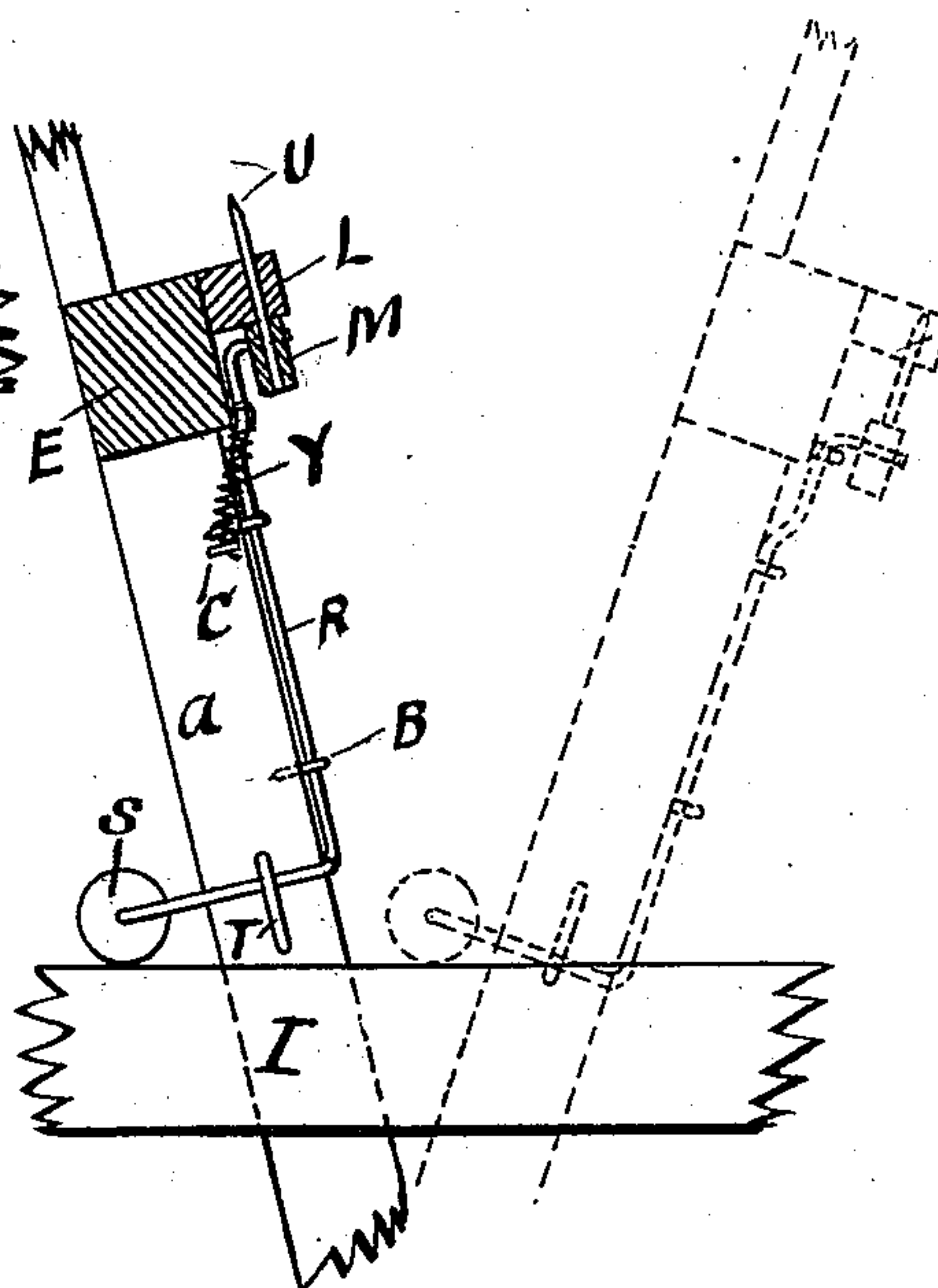


Fig 2.

WITNESSES:

S. G. Thurman
C. V. Thurman

INVENTOR

GEORGE W FARMER

BY

Jno S. Thurman
ATTORNEY.

UNITED STATES PATENT OFFICE.

GEORGE W. FARMER, OF INDIANAPOLIS, INDIANA.

SHUTTLE-GUIDE FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 528,505, dated October 30, 1894.

Application filed November 27, 1893. Serial No. 492,037. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. FARMER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Shuttle-Guides for Looms; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates especially to a reciprocating shuttle guide for hand looms for weaving rag carpets, and is attached to the vibrating lay of the loom, and has for its object to provide a guide for the shuttle when passing across the lay when the lay is inward, and when the lay is drawn outward to clear the carrying bed in order that the reed may beat up the weft.

I have aimed to make my device of few parts and of such simple construction as to make it durable in use and economical in manufacture.

With these objects in view, the invention consists in certain novel details of construction and arrangement of parts to be hereinafter described and pointed out in the claim.

Similar letters of reference indicate the same parts throughout the several views of the drawings, in which—

Figure 1 is a front view of part of the lay of a loom having my invention attached thereto, and Fig. 2 is a vertical sectional view of the same on line *x, x*. The full lines of Fig. 2 show the shuttle guide pins up, and the dotted lines show the lay forward and the position of the guide after the shuttle has crossed the loom with the pins flush with the surface of the lay.

M is a slat provided with the pins U which

form a guard for the shuttle and which pins reciprocate vertically through holes in the bar L. The said bar is attached to the carrying bed E of the lay.

S is a wheel which travels on the stationary cross-beam I of the loom.

R is a bent rod which is connected to the slat at *m*, then passing inward, then downward, then sidewise to the side standard *a* of the lay, and then down said standard, then sidewise and then inward and then sidewise to the wheel S, said rod being held in place and guided by means of the staples B driven in the lay.

T is a guide to hold the rod steady near the wheel.

Y is a spiral spring attached to the rod at D and the lower end to the staple C in the standard *a*, by means of which the pins U are retracted.

It will be seen that by this construction and arrangement the guide is up when the lay is in its rear position, and is down when the lay is in its forward position, that of beating up the weft.

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

In a shuttle guide for looms, the combination with the vibrating lay E, provided with perforated bar L, of the slat M having pins U working in said perforated bar, pulley S, cross-beam I upon which said pulley travels, bent rod R connecting said pulley with slat M, guides B and T for said rod, and spring Y connected to retract the pins U, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. FARMER.

Witnesses:

JNO. S. THURMAN,
DUANE H. BOWLES.