

(No Model.)

S. W. HOLT.

PICKER STAFF CHECK FOR LOOMS.

No. 347,801.

Patented Aug. 24, 1886.

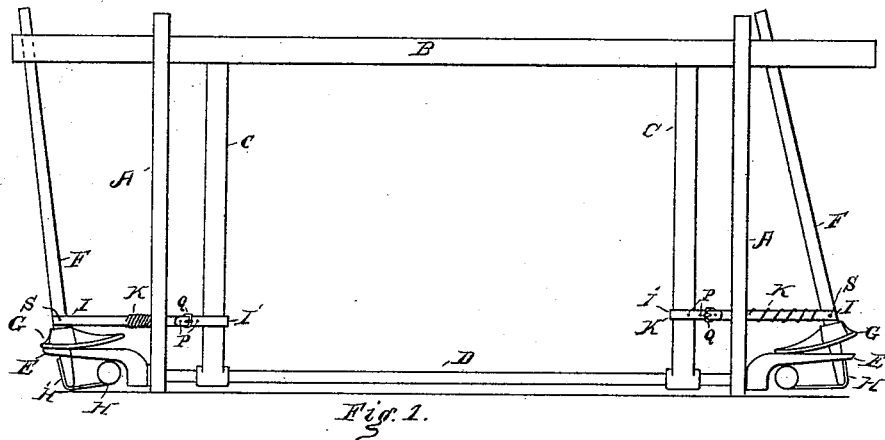


Fig. 1.

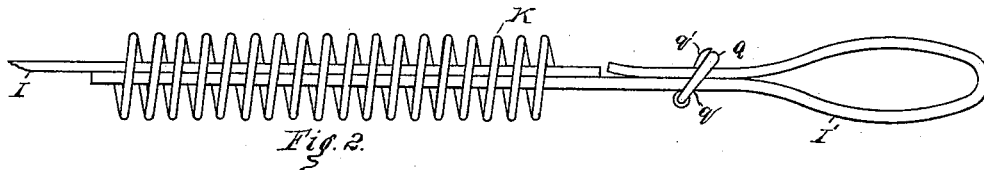


Fig. 2.

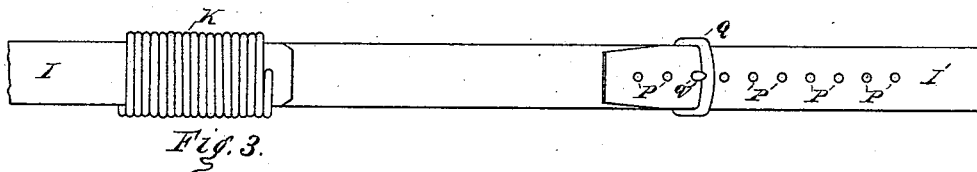


Fig. 3.

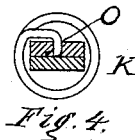


Fig. 4.

Witnesses—
Edward H. Thompson.
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By Albert M. Moore
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UNITED STATES PATENT OFFICE.

SELDEN W. HOLT, OF LOWELL, MASSACHUSETTS, ASSIGNOR OF TWO-THIRDS
TO FRANK BROWN AND HARRY E. SHAW, BOTH OF SAME PLACE.

PICKER-STAFF CHECK FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 347,801, dated August 24, 1886.

Application filed August 20, 1883. Serial No. 104,153. (No model.)

To all whom it may concern:

Be it known that I, SELDEN W. HOLT, a citizen of the United States, residing at Lowell, in the county of Middlesex and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Picker-Staff Checks for Looms, of which the following is a specification.

My invention relates to picker-staff checks; and it consists in the combination hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front elevation of the lay of a loom and a part of the frame, showing the brackets which support the picker-shoes, said shoes, the picker-sticks, their tension rolls and straps, and two of my picker-staff checks, each attached to a picker-stick and to a sword of the lay. Figs. 2 and 3 are a plan and an elevation of one of said checks detached, and Fig. 4 a cross-section of the same through both straps at one end of the spring.

The frame A of a loom, the lay-beam B, the swords C C, the lay-shaft D, supported by and turning in the frame A, and provided with brackets E E, the picker sticks F F, provided with shoes G G, the tension-rolls H H, and straps H' H', connecting the same with the picker-sticks, are all of the usual construction and operation.

The following description applies to either end of the lay. The strap I, of leather or other similar flexible material, is intended to be attached at one end to the picker-stick, the other end of said strap being passed through the spiral spring K and connected to the end of said spring by the end of the wire of the spring being bent down through a hole, O, in the strap, as shown in Fig. 4. A similar strap, I', is attached to the sword of the lay and enters the same spring from the other end there-

of overlaying the end of the strap I, and, in the same way as the strap I, is fastened to the spring.

When the top of the picker-stick is thrown outward by the shuttle striking its picker, the spring will be gradually compressed by the drawing of the straps in opposite directions, gradually bringing the shuttle to a stop. One end of the picker-staff check, preferably that which is attached to the sword of the lay, is made adjustable, the end of the strap I being provided with holes P, so that it may be looped around the sword and passed through a buckle, Q, on said strap, by which means the compression of the spring may be increased or diminished. The buckle Q is of the ordinary construction, consisting of a frame or ring, q, and a tongue, q', pivoted to said frame. The other end of the check is secured to the picker-stick by a screw or pin, S.

The above-described check is cheap, not liable to get out of order, requires no oiling, and is noiseless in its operation, and the spring being forcibly compressed, instead of extended, will not lose its elasticity.

I claim as my invention—

The combination, with the lay and picker-stick of a loom, of a picker-staff check, consisting of a spiral spring and two straps of leather or similar material overlapping each other within said spring, one end of each strap being secured to an end of said spring, the ends of said straps being adapted to be attached to the picker-stick and to a part of the lay, respectively, as and for the purpose specified.

SELDEN W. HOLT.

Witnesses:

ALBERT M. MOORE,
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