(No Model.)

W. DRIVER.

PICKER CHECK FOR LOOMS.

No. 382,640. Patented May 8, 1888.

Fig. 1.

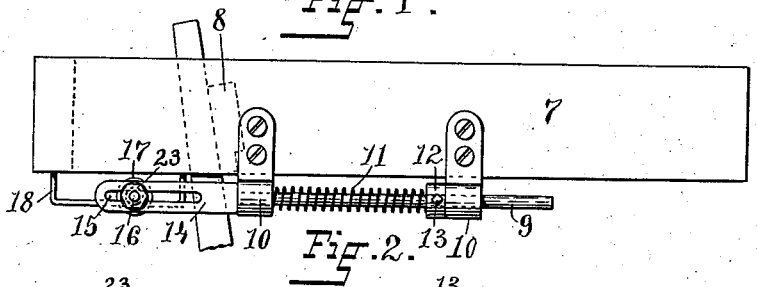


Fig. 2.

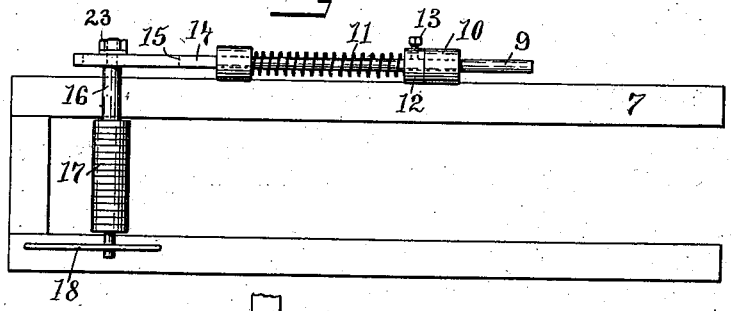


Fig. 3.

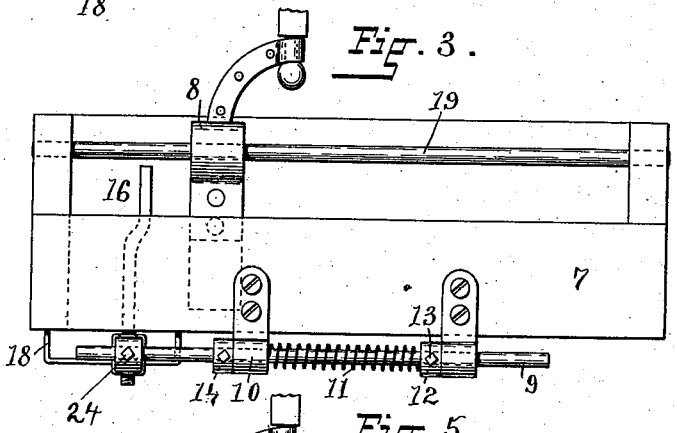


Fig. 4.

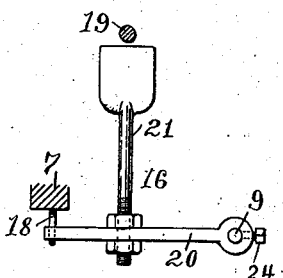


Fig. 5.

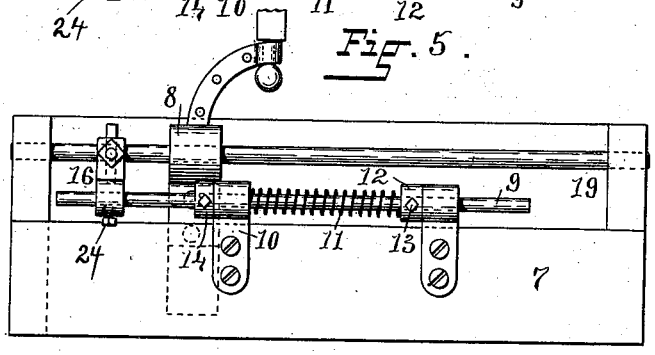
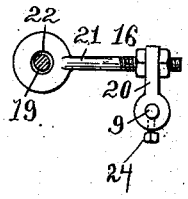


Fig. 6.



WITNESSES:

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Attys

UNITED STATES PATENT OFFICE.

WILLIAM DRIVER, OF MANVILLE, RHODE ISLAND.

PICKER-CHECK FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 382,640, dated May 8, 1888.

Application filed August 29, 1887. Serial No. 248,133. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DRIVER, of Manville, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Picker-Checks for Looms, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to picker-checks, which are devices for limiting or checking the throw in one direction of the picker of a loom.

The objects of my invention are to provide a picker-check which will be spring-actuated, and thereby will gradually ease off and check the blow of the picker; and, further, the invention seeks to provide a durable and efficient check which will be much preferable to the old form of picker-check straps.

To the aforesaid purposes my invention consists in certain details of construction and arrangement of the several parts of the device, all as hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a side view of a shuttle-box and the upper portion of a picker-stick with its picker, together with my improved picker-check; and Fig. 2 is an under side view of Fig. 1, with the picker omitted. Fig. 3 is a side view of a shuttle-box and a portion of an ordinary overpick picking mechanism, with another form of my improved picker-check combined therewith. Fig. 4 is a detached detail end view of a portion of the device shown in Fig. 3, and shows the check and its guide and the spindle, which is in cross-section. Fig. 5 is a side view of parts such as those shown in Fig. 3, with a different form of check; and Fig. 6 is a detached detail end view of the check shown in Fig. 5, and which slides on the guiding-spindle, shown in cross-section.

In the said drawings like numbers of reference designate corresponding parts throughout.

Referring to the drawings, the number 7 designates the ordinary shuttle-box for the shuttle, and 8 is the picker for driving the shuttle out of the box. The check-rod 9 is mounted in the two bearings or hangers 10, which are attached to the shuttle-box, and this rod is adapted to be reciprocated endwise in such bearings, and has the spring 11 surrounding the same, with one end thereof abutting against one of the said bearings, while the other end of the spring engages with the adjustable stop 12, which slides on the rod, and may be secured at any adjustment thereon by means of its set-screw 13. The inward throw of the rod 9 is limited by means of the enlargement 14, which in Figs. 3 and 5 is adjustable, the enlargement striking against the bearing 10, and thereby effecting the limitation.

The outer end of the check-rod 9 in Figs. 1 and 2 is formed with a slot, 15, in which is adjustably mounted, by means of the nut 23, the check 16, which is provided with the rawhide cushion 17, and has one end thereof sliding in the guide 18, which is secured upon the shuttle-box for steadying the motion of the check.

The construction shown in Figs. 1 and 2 is designed for use with the ordinary picker-staff, while the two constructions shown in Figs. 3 and 4 and Figs. 5 and 6, respectively, are adapted to be used with what is known as an "overpick" loom, in which the picker 8 slides to and fro on the guiding-spindle 19, which is fixed over the shuttle-box 7. Both the constructions shown in Figs. 3, 4, 5, and 6 comprise the checks 16, which, however, are composed of the two members 20 and 21, the former of which is adjustably secured to the check-rod 9 by means of the set-screw 24, and carries the member 21, against which the picker strikes directly.

In Figs. 3 and 4 the member 21 is made quite long, and is fixed upright, so that the reciprocating check-rod can be placed subjacent to the shuttle-box and allow the check to reach the picker.

In Figs. 5 and 6 the member 21 is provided with a perforation, 22, to receive the guiding-spindle 19, and the check-rod is placed near the upper part of the shuttle-box.

The improved check is a very durable one, and relieves the loom of the effects of the continual dead blow of the picker at its outward limit of vibration.

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

1. The combination, with the shuttle-box, of a reciprocating check-rod provided with a check for receiving the blow of the picker,

secured to the check-rod by a clamp to adjust the same and mounted in bearings, a spring mounted on the check-rod and abutting with one end against one of the said bearings, and a stop adjustable by means of a set-screw for engaging the other end of the spring and for regulating the tension of the spring by means of its adjustment, substantially as and for the purpose herein described.

2. The combination, with the shuttle-box 7, of the spring-actuated reciprocating check-rod mounted in bearings 10, and the check 16, adjustably mounted on the check-rod by means of the set-screw 24, and comprising the members 20 and 21, substantially as and for the purpose herein described.

3. The combination, with the shuttle-box 7 and the picker 8, provided with the guiding-spindle 19, of the spring-actuated reciprocating check-rod 9, mounted in bearings 10, and the check 16, adjustably mounted on the check-rod by means of the set-screw 24, and comprising the member 20 and the member 21, having the perforation 22 to receive the spindle 19, substantially as and for the purpose herein described.

In witness whereof I have hereunto set my hand.

WILLIAM DRIVER.

Witnesses:
M. F. BLIGH,
J. A. MILLER, Jr.