

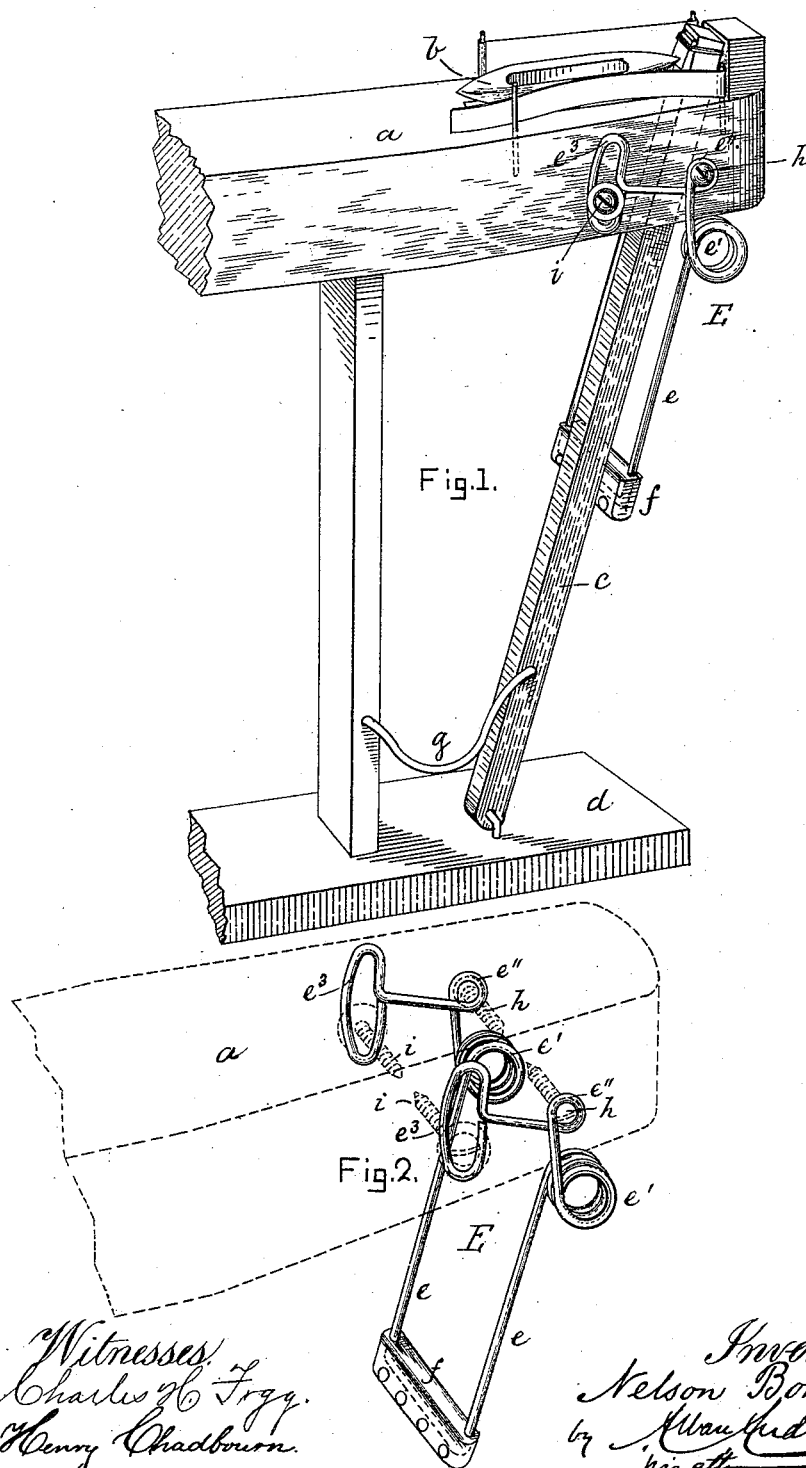
(No Model.)

N. BONNEAU.

PICKER STAFF CHECK FOR LOOMS.

No. 345,361.

Patented July 13, 1886.



# UNITED STATES PATENT OFFICE.

NELSON BONNEAU, OF LAWRENCE, MASSACHUSETTS, ASSIGNOR OF TWO-THIRDS TO CHARLES LACAILLADE AND CLEMENT PERRON, BOTH OF SAME PLACE.

## PICKER-STAFF CHECK FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 345,361, dated July 13, 1886.

Application filed March 6, 1886. Serial No. 194,235. (No model.)

*To all whom it may concern:*

Be it known that I, NELSON BONNEAU, a citizen of the United States, residing at Lawrence, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Picker-Staff Checks for Looms; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawings.

This invention relates to an improvement in picker-staff checks for looms, serving as an elastic cushion or spring for the picker staff or stick when struck by the shuttle in its reciprocating motion from one shuttle-box to the other; and this my invention is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a perspective view of the improved picker-staff check as applied to one end of the "lay" of a loom; and Fig. 2 represents a detail perspective view of the picker-staff check, the end of the lay being shown in dotted lines.

Similar letters refer to similar parts wherever they occur in the different parts of the drawings.

In Fig. 1, *a* represents the lay on a loom on which the shuttle *b* is caused to travel forward and back, as usual, by intermittent blows from the picker staffs or sticks *c*, one of which is shown in Fig. 1 hinged at its lower end to the base *d*, or lower portion of the loom, in the ordinary manner, and having its upper end projecting through a slot-hole in the lay *a*, as usual, and provided with a picker in the well-known manner, against which the shuttle strikes when impelled by a blow from the opposite picker-stick.

To retard the motion of the shuttle when it strikes the picker-stick, and to allow the latter to yield so as to prevent the filling or cop in the shuttle from breaking, I pivot to the lay *a* my improved check, that is made from one single piece of wire, as follows:

In Figs. 1 and 2, *E* represents my improved picker-staff check made from one continuous piece of wire, its lower end, *e*, being made U shaped, and preferably provided with a leather or other suitable pad or cushion, *f*,

that lies in contact with the picker-stick *c*, the latter being normally held against it by means of the spring *g*, shown in Fig. 1, or other well-known means. Upon the wire *E*, at the upper end of the U-shaped portion *e*, are made the spiral-spring coils *e' e'*, to permit the lower end of the check to yield when the picker is struck by the shuttle. From the coils *e' e'* the wire continues upward on each side of the lay-beam, where it is bent in form of eyes *e'' e''*, through which are inserted and secured to the two opposite sides of the lay-beam the fulcrum pins or screws *h h*, as shown. From the eyes *e'' e''* the wire is bent forward or backward, terminating as elongated eyes or loops *e<sup>3</sup> e<sup>3</sup>*, through which pass the regulating screws *i i*, that are screwed into opposite sides of the lay-beam, as shown. By loosening the screws *i i* the single-wire picker-staff check can be easily swung on the fulcrum *h h*, so as to adjust the lower end of the U-shaped portion *e* relative to the picker-stick according to the force by which the picker-stick is struck by the shuttle in its reciprocating motion, and after the position of the check is so adjusted the slotted portions or loops *e<sup>3</sup> e<sup>3</sup>* are secured to the lay *a* by tightening the screws *i i*.

This my improved picker staff check is very simple in construction, being made of one single piece of wire. It can be made at a reduced cost as compared with others, it is not liable to breakage, and it needs no lubrication to make it perform the work desired.

What I wish to secure by Letters Patent and claim is—

The herein-described picker-staff check for looms, made of one continuous wire *E*, having its lower U-shaped portion, *e*, adapted to lie against the picker-staff, the spiral coils *e' e'*, to render the check yielding to the blow of the shuttle, the eyes *e'' e''*, and loops *e<sup>3</sup> e<sup>3</sup>*, combined with fulcrum *h h* and regulating screws *i i*, as and for the purpose set forth.

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

NELSON BONNEAU.

Witnesses:

ALBAN ANDRÉN,  
J. N. A. KARMAN.