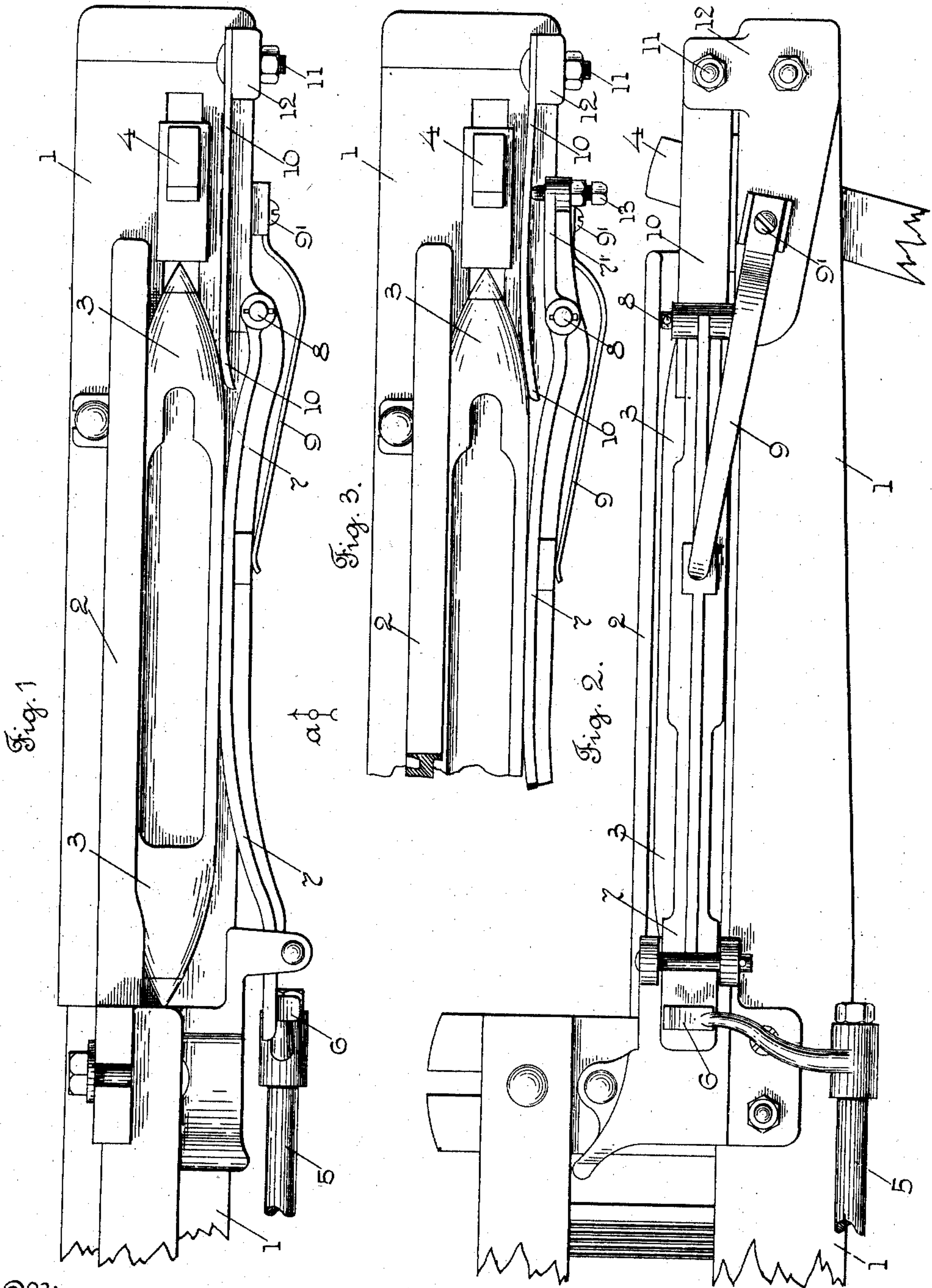


No. 864,900.

P. MACPHERSON.
LOOM SHUTTLE CHECK.
APPLICATION FILED OCT. 12, 1905.

PATENTED SEPT. 3, 1907.



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UNITED STATES PATENT OFFICE.

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LOOM SHUTTLE-CHECK.

No. 864,900.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PETER MACPHERSON, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have
5 invented certain new and useful Improvements in Loom Shuttle-Checks, of which the following is a specification.

My invention relates to a loom shuttle check, and the object of my invention is to provide a shuttle
10 check of simple construction, and adapted to be combined with a shuttle box of ordinary construction, either stationary or movable, and with which the ordinary shuttle binder is used.

My shuttle check consists preferably of a flat spring
15 blade or plate, located at the outer end of the shuttle box, and having its outer end secured to a stationary part, at the front outer end of the shuttle box, and its free end extending back of the pivoted end of the shuttle binder, and adapted to engage and bear upon
20 the outer side of the outer end of the shuttle, to bind the same against the back of the shuttle box, and hold and position the shuttle when it enters the box.

I have shown in the drawing a stationary shuttle box at one end of the lay, and some parts of a loom
25 connected therewith, and my improvements applied thereto.

Referring to the drawing:—Figure 1 is a plan view of the right hand end of the lay of a loom, and a stationary shuttle box thereon, and my improvements
30 applied thereto. Fig. 2 is a front view of the parts shown in Fig. 1, looking in the direction of arrow *a* same figure, and Fig. 3 shows a modified construction of the shuttle binder shown in Figs. 1, and 2.

In the accompanying drawing, 1 is the right hand
35 end of the lay of a loom, carrying a stationary shuttle box or cell 2 for the shuttle 3, in the usual way.

4 is the upper end of the picker stick.

5 is a rock shaft at the front of the lay, carrying the protector finger 6, adapted to bear at its upper end
40 against the inner free end of the shuttle binder 7, which is pivoted at its outer end on a stud 8 on the front side of the shuttle box. A binder spring 9, secured at one end by a screw 9' on the front outer end of the lay, bears at its free end against the binder 7.

45 All of the above mentioned parts may be of the usual and well known construction.

I will now describe my improvements.

I provide a spring blade 10, preferably flat in cross section, the outer end of which is rigidly secured, in
50 this instance by a bolt 11, upon the inner side of a stand or casting 12, secured to the front outer end of the lay. The free inner end of the spring blade 10 is

preferably bent or curved outwardly, and extends within the shuttle box or cell, back of the pivoted end of the shuttle binder 7, and in the path of, and
55 adapted to be engaged by the outer side of the outer end of the shuttle, as it enters the shuttle box.

The engagement of the spring blade 10 with the shuttle, acts to check the shuttle as it enters the box, and in connection with the usual binder 7, acts to
60 hold and position the shuttle in the box.

In Fig. 3 is shown the preferred construction of a shuttle binder to be used in connection with the spring blade or check 10. In said Fig. 3, the outer end of the shuttle binder 7 is extended beyond its
65 pivot stud 8, forming an extension 7', which in this instance has an adjusting bolt or screw 13 turning in a threaded hole therein. The inner end of the bolt 13 is adapted to engage the outer surface of the spring blade 10, at about its central portion, intermediate
70 its ends. The outward movement of the spring blade 10, when it is engaged by the shuttle entering the shuttle box, will, through the bolt 13, move outwardly the extension 7' on the binder 7, and consequently move inwardly the binder 7, and cause it to
75 press harder against the shuttle, to hold the shuttle more securely. By turning in or out the bolt 13, the amount of pressure of the spring blade 10, and also of the binder 7, on the shuttle, may be regulated as desired.
80

It will be understood that the details of construction of my improvements may be varied if desired. For instance, the position of the spring 10 may be reversed, and the inner end of said spring be attached to the shuttle binder on the inner side of its pivot
85 stud 8, and the free end of the spring bear against the end of the shuttle on the outside of the pivot stud 8, and the tension of the spring regulated by an adjusting bolt, corresponding to the bolt 13, shown in Fig. 3.
90

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

The combination with a shuttle box, and a spring actuated binder having an extension thereon beyond its pivotal support, and an adjusting screw or bolt on said extension,
95 of a spring blade extending at the rear of the shuttle binder, and rigidly secured at one end, independent of the shuttle binder, with its other end extending inwardly at the rear of the binder to engage the outer end of the shuttle, and said spring blade adapted to be engaged by said
100 adjusting screw or bolt.

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Witnesses:

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