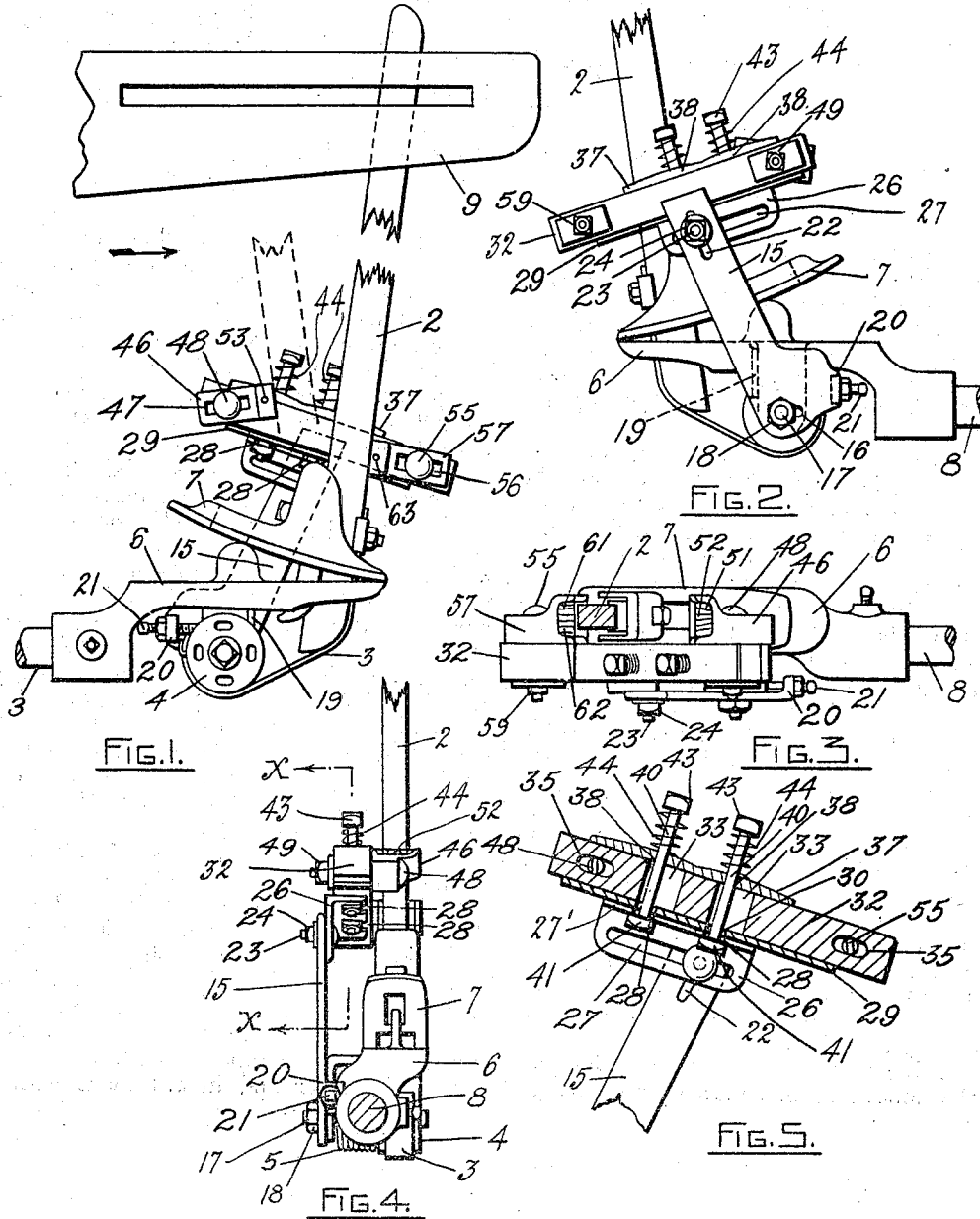


R. LEVEILLEE.
 PICKER CHECK.
 APPLICATION FILED DEC. 27, 1910.

1,001,762.

Patented Aug. 29, 1911.



WITNESSES

Albert G. Piegentkowski.
George H. McLaughlin.

INVENTOR.

Raphael Leveillee
By Keratis E. Bellows

ATTORNEY.

UNITED STATES PATENT OFFICE.

RAPHAEL LEVEILLEE, OF GEORGIAVILLE, RHODE ISLAND.

PICKER-CHECK

1,001,762.

Specification of Letters Patent.

Patented Aug. 29, 1911.

Application filed December 27, 1910. Serial No. 599,332.

To all whom it may concern:

Be it known that I, RAPHAEL LEVEILLEE, a citizen of the United States, residing at Georgiaville, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Picker-Checks, of which the following is a specification.

My invention relates to devices intended to cushion the shock of a shuttle upon the picker stick and the shock resultant upon the latter by reason of its vibration, and has for its essential objects the ends commonly shown in such structures and more particularly to afford a gradual and more yielding check than has heretofore been known; to provide a more convenient arrangement and location of the picking device and to render the same readily attachable and detachable to and from looms of any construction; and finally to render the same readily adjustable.

To the above ends essentially my invention consists in the novel construction and operation of the parts hereinafter set forth and made the subject matter of the appended claims.

In the accompanying drawings which form a part of this specification, Figure 1 is a front elevation of my novel device, shown attached to the end of a loom of ordinary construction, only a portion of the loom being shown; Fig. 2, a rear elevation of the same; Fig. 3, a plan view of my device; Fig. 4, a view of the same looking outwardly or in the direction of the arrow shown in Fig. 1; and Fig. 5, a section on line *x x* of Fig. 4.

Like reference characters indicate like parts throughout the views.

In the drawings, 2 is the picker stick, 3 its strap, 4 the strap roller, 5 the spring, 6 the shoe, and 7 the rocker member, all of the usual construction, supported upon the shaft 8; 9 is the usual lay showing the end of the picker stick cooperating therewith, said picker stick being shown broken away intermediate its length.

It is in conjunction with the above enumerated well known loom parts that my invention will be now described.

A supporting plate 15 is provided in its lower portion with a slot 16 through which passes a bolt 17 which connects the plate 15 with the shoe and has upon its outer end a nut 18. Upon the surface of the plate 15

adjacent the shoe is a shoulder 19 which forms a stop for any movement of the plate relatively to the shoe in one direction, and for the purpose of preventing a movement of the plate in the opposite direction, there is cooperating with said shoulder upon the margin of the lower portion of the plate 15 a lug 20 in which is a set screw 21 abutting against the shoe. The upper end of the plate 15 is provided with a vertically disposed slot 22 through which passes a bolt 23 provided with a nut 24. The head of the nut 23 tightening engages a lip 26 provided with an oblong longitudinal slot 27 through which the bolt 23 passes. By the described nut and bolt connection a ready adjustment of a universal nature is afforded between the plate 15 and the lip 26. The lip 26 is an integral portion of a plate 27 provided with interspaced openings 28 which member constitutes a supporting plate, for a second plate 29 of greater length provided with openings 30 registering with the openings in the supporting plate. Resting upon the plate 29 is an oblong slidable block 32 preferably of wood, said block being provided with two interspaced longitudinally disposed oblong slots 33 in alinement with each other and vertically disposed. This block has also horizontally disposed or transverse oblong slots 35 near its ends. Resting upon the block 32 is a plate 37 provided with circular openings 38 interspaced from each other and in alinement with a portion of the openings or slots 33 of the block 32. The plates 29 and 37 are binding or clamping plates held in frictional contact with the intermediate block 32 by bolts 40 which traverse the openings 28, 33 and 38 and whose head 41 bears against the lower face of the supporting plate 27. The upper ends of the bolts or pins 40 have threaded thereon nuts 43 against which are placed the upper ends of helical springs 44 whose lower ends abut against upper surface of the clamping plate 37. The adjustment of the nuts 43 upwardly or downwardly upon the bolts 40 in conjunction with the springs 44 affords a convenient means for regulating the degree of frictional engagement of the clamping plates with the intermediate block 32. Preferably the frictional engagement of the latter parts should be generally considered under normal conditions so that considerable force would be required to longitudinally reciprocate the block.

Pivoted to the front face of the block 32 at one end is an oblong holder 46 provided with an oblong longitudinal slot 47 to admit a bolt 48 having upon its rear end a nut 49 resting against the opposite face of the block. The bolt 48 passes through one of the openings 35. The holder 46 is provided upon its inner portion with a beveled cavity 51 in which are seated a number of strips of leather 52 tightly held together in their seat by a rivet 53. Through the other opening 35 of the block 32 passes a bolt 55 which traverses a slot 56 in a second holder 57. Upon the back end of the bolt 55 is a nut 59 bearing against the face of the block 32. The holder 57 is provided in its inner face with a cavity 61 in which is seated strips of leather 62 arranged edgewise therein side by side and fixed in position by a rivet 63 attaching them to the holder.

The nut and bolt connection of the holders permit of the latter being adjusted to any convenient desirable elevation relatively to each other and to the picker stick which vibrates between the same. For practical operations it is preferable that the holder 46 be elevated or upwardly inclined to better adapt its working leather surface to the angle of impact of the picker stick in its inward reciprocation. The companion holder 57 is preferably adjusted as shown. It will be observed that as the picker stick vibrates the relatively tight connection of the holders with the block 32 will cause the block to alternately move in the direction of the impact of the picker stick, thus cushioning the movement of the stick to a degree regulated by the degree of frictional contact between the block and the clamping plates determined upon by the operative.

What I claim is,—

1. In a loom, the combination with the picker stick, of a check device for limiting the throw of the picker stick comprising clamping plates provided with openings and fixed relatively to the stick, a block provided with oblong openings adapted to register with the openings in the clamping plates and mounted between the clamping plates, bolts engaging at one end one of the clamping plates and passing through the openings in the clamping plates and in the block and extending beyond one of the clamping plates, and springs upon the projecting ends of the bolts resting upon the adjacent clamping plate, and means upon the face of the block in the path of the picker stick for receiving the impact of the picker stick.

2. In a loom, the combination with the picker stick, of a check device for limiting the throw of the picker stick comprising clamping plates fixed relatively to the stick, a block slidably mounted between the clamping plates, and interspaced holders pivotally connected with the block in the path of the stick.

3. In a loom, the combination with the picker stick, of a check device for limiting the throw of the picker stick comprising clamping plates fixed relatively to the stick, a block slidably mounted between the clamping plates, interspaced holders upon the block in the path of the stick, and strips mounted in the holders adapted to receive the impact of the stick.

4. In a loom, the combination with the picker stick, and the shoe, of an arm adjustably mounted upon the shoe, a supporting plate adjustably connected with the arm and disposed transversely thereof, clamping plates supported by said plate, a block slidably mounted intermediate the clamping plates, and means fixed to the block in the path of the picker stick adapted to receive the impact of the picker stick.

5. In a loom, the combination with the shoe and picker stick of an arm pivotally connected with the shoe and provided with a shoulder adapted to cooperate with the shoe, a lug upon the margin of the arm, an adjusting screw mounted in the lug and adapted to engage the shoe, a supporting plate provided with an oblong slot and transversely disposed with relation to the arm, a bolt connecting the arm and flange through said slot, a block longitudinally movable above the supporting plate and connected therewith, and means upon the block in the path of the picker stick adapted to receive the impact of the stick.

6. In a loom, the combination with the picker stick, of a check device for limiting the throw of the picker stick comprising clamping plates, a block slidably mounted between the clamping plates and provided with transverse openings, holders upon the face of the block interspaced from each other and provided with openings, bolts passing through the openings in the block and engaging the holders, strips in the holders in the path of the picker stick adapted to receive the impact of the picker stick.

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

RAPHAEL LEVETILLE.

Witnesses:

HORATIO E. BELLOWE,
GEORGE H. McLAUGHLIN.