(No Model.)

J. P. THOMPSON.

LOOM SWELL.

No. 457,961. Patented Aug. 18, 1891.

Fig. 1.

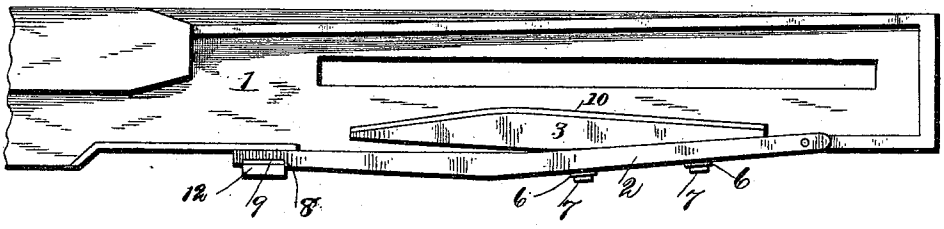


Fig. 2.

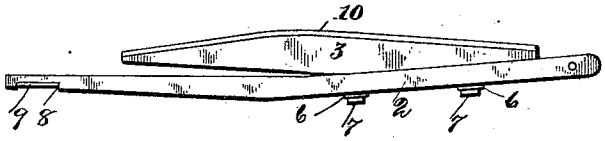
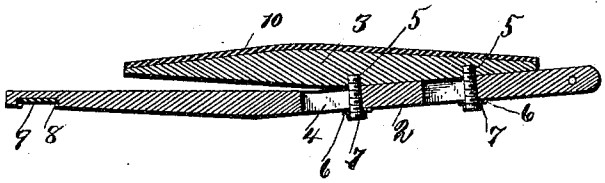


Fig. 3.



WITNESSES:
Marcus L. Byng.
S. L. Coombs

INVENTOR:
John P. Thompson.
By Sawin Dagger & Co.
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN P. THOMPSON, OF OLNEYVILLE, RHODE ISLAND.

LOOM-SWELL.

SPECIFICATION forming part of Letters Patent No. 457,961, dated August 18, 1891.

Application filed January 6, 1891. Serial No. 376,858. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. THOMPSON, a citizen of the United States, and a resident of Olneyville, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Loom-Swells; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to loom-swells or shuttle-checks, the object being to provide improved means whereby the friction between the same and the shuttle is increased, to provide means for compensating for the wear of the swell or check, and to provide an improved construction, whereby the swell or check can be adjusted or regulated to correspond with varying sizes of shuttles employed. A loom-shuttle which is thrown or shot from one side of the loom to the other by a quick blow of the picker-stick has a tendency to rebound when it strikes the picker. To prevent this rebounding, various forms of devices, technically known as "swells," have been employed. Iron was formerly used very extensively, but it soon became smooth from the continued blows of the shuttle, thus rendering it inefficient and requiring too much pressure to be directed against the shuttle. Wood is now most generally employed for swells, but this has a tendency to sliver from the same causes.

My invention is designed to improve the present constructions of such devices, whereby a more efficient and reliable swell will be produced.

The invention consists in the novel construction and combination of parts hereinafter fully described, and definitely pointed out in the claims.

In the accompanying drawings, Figure 1 represents a view of a shuttle check or swell constructed in accordance with my invention, also showing a portion of a loom. Fig. 2 is a side elevation of the check detached. Fig. 3 is a longitudinal section of the same.

In the said drawings, the reference-numeral 1 designates the shuttle-race, which may be of any ordinary construction.

The check or swell is composed of two parts 2 and 3, the part 2 being pivoted to the shuttle race or box, as usual in this class of devices. This part 2 consists of a bar of wood or other suitable material, and is beveled or curved from its center toward each end, forming a double-inclined plane, upon which the other part 3 of the check or swell rests. This part 3 preferably consists of a block of wood curved or beveled on its upper and lower faces from the center to each end. The part 2 is provided with two or more slots 4 and the part 3 with screw-threaded pins or bolts 5, which pass through said slots and are secured by means of washers 6 and nuts 7. The inner face of the part 3, which comes in contact with the shuttle, is provided with a facing 10, of leather or other like material, which causes greater friction, and also prevents slivering of the wood of which the said part is composed.

In ordinary construction of swells or checks the free end of the same is usually provided with a piece of leather to take up the backlash between the swell and the dagger-finger which presses against it, the leather being tacked onto the swell. This construction is objectionable, in that the leather is liable to become detached, which necessitates much loss of time in replacing the same. My invention also contemplates obviating this defect, which I accomplish by forming a recess 8 near the free end of the swell, in which a pad of leather 9 is inserted, which is held in place by the dagger-finger 12 pressing against the same.

The operation of the invention will be readily understood. To adjust the swell as to compensate for wear or to provide for varying sizes of shuttles, it is simply necessary to loosen the nuts on the bolts and move the part 2 upon the part 3, which, owing to their beveled or curved form, will cause said part 2 to advance forward or recede from the parts of the shuttle, according to the direction in which it is moved, as will be obvious.

Having thus described my invention, what I claim is—

1. A loom-swell or shuttle-check consisting of the beveled or curved bar adapted to be pivoted to a shuttle race or box, the block curved or beveled on its inner and outer faces

from the center toward each end adjustably connected with said bar, and the elastic facing secured to said block, substantially as described.

2. A loom-swell or shuttle-check consisting of the pivoted bar beveled or curved from its center to each end and provided with a series of slots, the block curved or beveled on its inner and outer faces from the center toward each end, having bolts or pins passing through said slots and binding-nuts, substantially as described.

3. In a loom-swell or shuttle-check, the combination, with a curved or beveled pivoted bar having a series of slots and a recess near its free end provided with a leather pad, of the beveled block resting upon said bar and provided with pins or bolts passing through said slots, and the binding-screws, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN P. THOMPSON.

Witnesses:
RASSELUS S. MOWRY,
EDGAR P. HOLBROOK.