

A. LAUSTER.
LOOM STOPPING DEVICE.
(Application filed Jan. 15, 1901.)

(No Model.)

Fig 1:

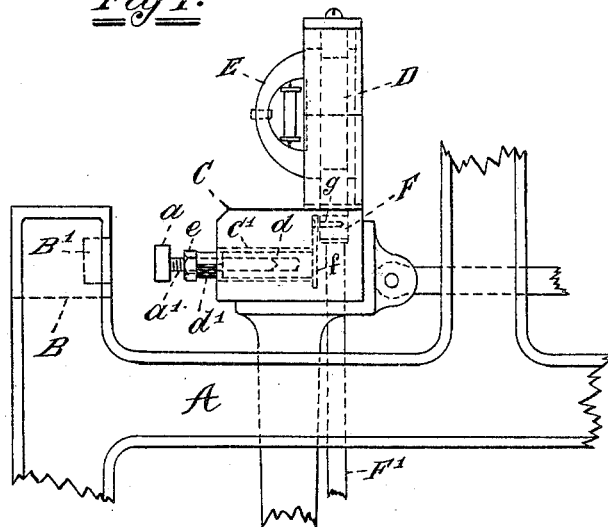


Fig 2:

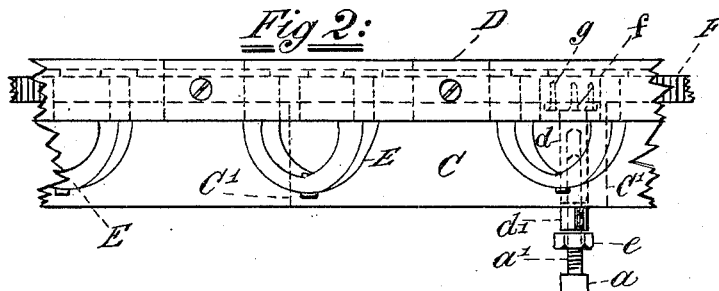
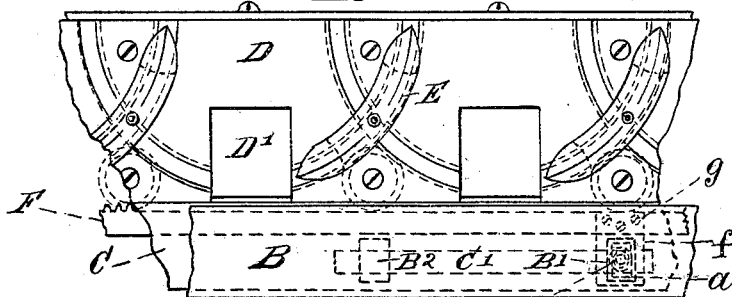


Fig 3:



WITNESSES:

Stella A. Hughes.
William C. Mickel.

INVENTOR.

August Lauster
BY John F. Kerr
ATTORNEY.

UNITED STATES PATENT OFFICE.

AUGUST LAUSTER, OF PATERSON, NEW JERSEY.

LOOM-STOPPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 676,988, dated June 25, 1901.

Application filed January 15, 1901. Serial No. 43,357. (No model.)

To all whom it may concern:

Be it known that I, AUGUST LAUSTER, a subject of the Emperor of Germany, residing at 428 Totowa avenue, in the city of Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Loom-Stopping Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide an adjustable stopping device for looms.

While my invention may be applied to other looms, it is especially adapted for ribbon-looms of any known description.

In a ribbon-loom, where many shuttles are employed in carrying the weft through the different sets of warps, when a break occurs while the shuttles are passing through the sheds the forward movement of the batten causes considerable damage, and the principal object of my invention is to produce a device which will stop the forward movement of the batten simultaneously with the breaking of any part of the loom mechanism, which would result in the damage aforesaid, and to produce a device so adjustable as to regulate the distance from the breast of the loom at which the batten may be stopped. In some instances it might be desired to stop the batten at a point farther from the breast of the loom than might be required in other cases.

A further object of my invention is to produce an adjustable stopping device that will be durable, simple in construction, and cheap.

In the drawings, Figure 1 is a part side view of a loom with my invention applied thereto. Fig. 2 is a part plan view of the same, and Fig. 3 is a part front view thereof.

My invention consists of a T-headed bolt *a*, having a threaded portion *a'* and a tapped tube *d*, a square portion *d'* on the same, and a lock-nut *e*, said tapped tube *d* being provided with a plate *f* on the inner end thereof, to be secured to the rack F of the loom. The rack F is given its traverse movement by the driving-strap F'. The plate *f* on the end of the tapped tube *d* is secured to the rack F by the screws *g* or in any other suitable manner.

In the drawings, A represents the loom-

frame; B, the breast of the loom, which is provided with openings or cavities B' and B², and C represents the batten, which is provided with a slot C', in which slot the tapped tube *d* moves laterally with the traverse movement of the rack.

D represents the shuttle-races, having spaces or openings D', through which the warp passes, and E the shuttles.

When there is no breakage or interference with the movement of the rack, the T-headed bolt *a* passes alternately into the recesses or cavities B' and B² in the breast B upon the forward movement of the batten. If there should be any breakage or interference with the movement of the rack while the shuttle is in or passing through the warp-shed, the T-headed bolt *a* of my device will stop traveling in its horizontal course and will strike the breast B of the loom-frame A and prevent the further forward movement of the batten, thus obviating the destruction or damage which would ensue if the batten had completed its forward movement while the shuttle is in or passing through the warp-shed.

In Fig. 3 of the drawings the slot in the batten is shown by the dotted lines *c'*, as said figure is a front view, and the breast B hides the batten. The plate *f* receives the impact necessary to stop the forward movement of the lay, because the lower portion of the plate *f* is backed up by the solid rear portion of the batten, which forms the back wall of the slot or recess in the batten, in which the plate and tube work, said back wall of the slot or recess in the batten being flush with the edge of the rack, to which the plate *f* is secured. My device has been attached to looms and has proven to be practically an operative device. Breaks have occurred while the shuttles were passing through the warps, and the lower portion of the plate *f*, backed up by the solid portion of the batten behind it, has received the impact of the forwardly-moving batten, driving my stopping device forward. The traverse movement of the rack having been stopped the T-headed bolt has been driven against the breast B of the loom, stopping the forward movement of the batten, and consequently the loom.

My stopping device may be placed at any convenient point or may be located in different places for the purposes specified.

With this description of my invention, what I claim is—

1. A stopping device for looms consisting of a T-headed threaded bolt in combination with a tapped tube provided with a threaded portion adapted to receive said T-headed bolt, a locking-nut, a plate secured to the inner end of said tapped tube, the rack, said plate adapted to be secured to the rack or rack-strap of the loom, and the breast-beam provided with recesses therein, substantially as set forth.

2. A stopping device for looms consisting of a T-headed threaded bolt in combination with a tapped tube provided with a threaded portion adapted to receive said T-headed bolt, a locking-nut and a plate secured to the inner end of said tapped tube, said plate adapted to be secured to the rack or rack-strap of the loom, a batten provided with a longitudinal horizontal slot or cavity, in which said tapped tube may be moved laterally in conjunction with the traverse motion of the rack, and the breast-beam provided with recesses therein, substantially as set forth.

3. A stopping device for looms consisting of a T-headed threaded bolt in combination with a tapped tube provided with a threaded portion adapted to receive said T-headed bolt, a locking-nut and a plate secured to the inner end of said tapped tube, said plate adapted to be secured to the rack or rack-strap of the loom, and a rack and batten provided with a longitudinal horizontal slot or cavity, in which said tapped tube may be moved laterally in conjunction with the traverse motion of the rack, and the breast-beam provided with recesses therein, substantially as set forth.

4. A stopping device for looms consisting of a T-headed threaded bolt in combination

with a tapped tube provided with a threaded portion adapted to receive said T-headed bolt, a locking-nut and a plate secured to the inner end of said tapped tube, said plate adapted to be secured to the rack or rack-strap of the loom, the rack, the batten provided with a longitudinal horizontal recess or cavity in which said tapped tube may be moved horizontally in conjunction with a traverse motion of the rack and the breast portion of the loom-frame provided with openings or cavities to admit the T-headed bolt upon the forward movement of the batten, substantially as set forth.

5. A stopping device for looms consisting of a T-headed threaded bolt in combination with a tapped tube provided with a threaded portion adapted to receive said T-headed bolt, a locking-nut and a plate secured to the inner end of said tapped tube, said plate adapted to be secured to the rack or rack-strap of the loom, the rack, the batten, and the breast-beam of the loom having recesses or cavities therein, substantially as set forth.

6. A stopping device for looms consisting of a T-headed threaded bolt in combination with a tapped tube provided with a threaded portion adapted to receive said T-headed bolt, a locking-nut and a plate secured to the inner end of said tapped tube, said plate adapted to be secured to the rack or rack-strap of the loom, the rack and connections between said rack and the main shaft of the loom for the purpose of imparting a traverse motion to said rack, the breast-beam having recesses or cavities therein, substantially as set forth.

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

AUGUST LAUSTER.

Witnesses:

JOHN F. KERR,
STELLA A. HUGHES.