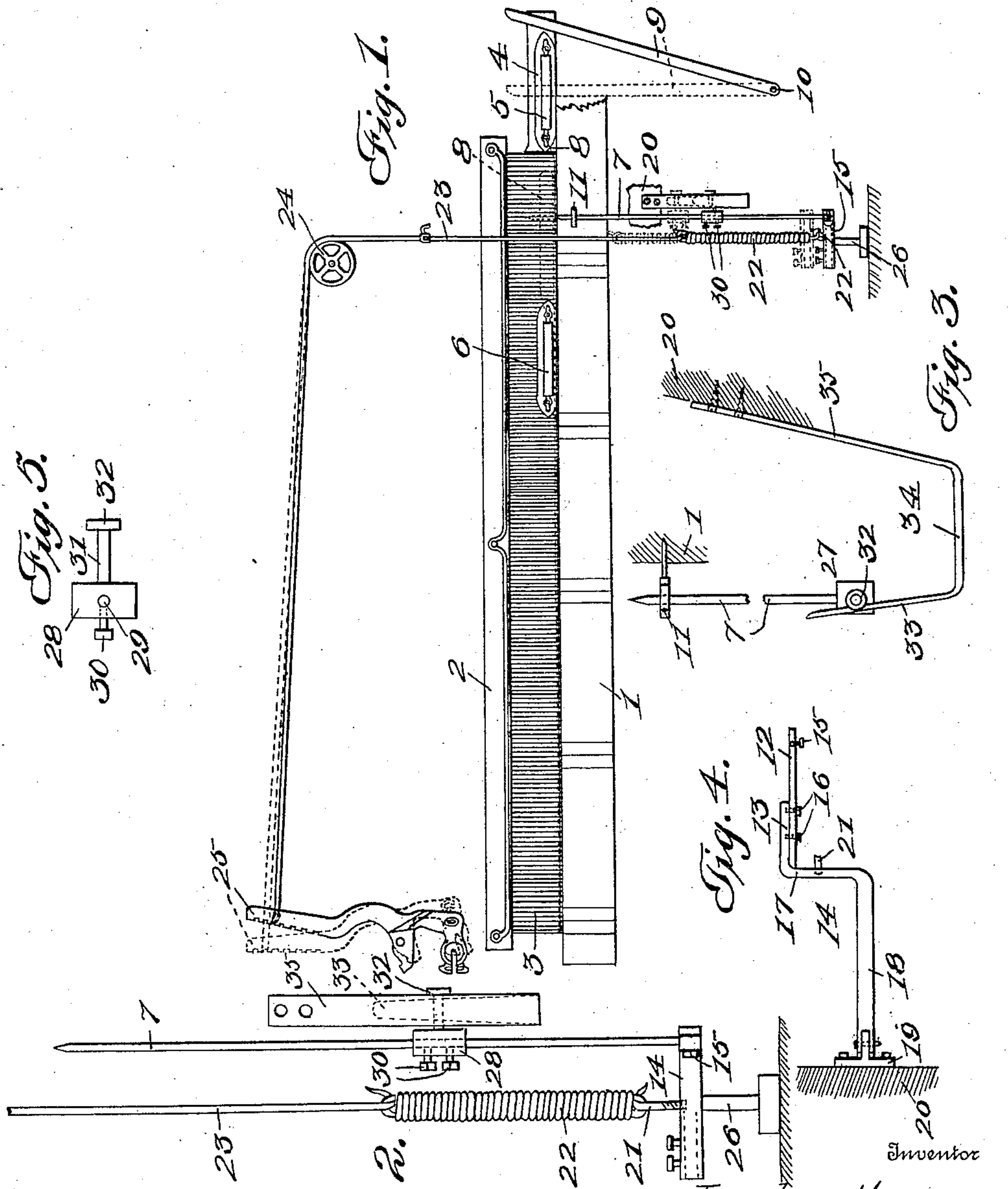


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 FLOAT FILLING SELVAGE HOLDER.
 APPLICATION FILED NOV. 25, 1907.

915,027.

Patented Mar. 9, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH HARGREAVES, OF KILLINGLY, CONNECTICUT, ASSIGNOR OF ONE-HALF TO J. EUGENE COCHRANE, OF DEDHAM, MASSACHUSETTS.

FLOAT-FILLING SELVAGE-HOLDER.

No. 915,027.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed November 25, 1907. Serial No. 403,746.

To all whom it may concern:

Be it known that I, JOSEPH HARGREAVES, a subject of the King of England, residing at Killingly, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Float-Filling Selvage-Holders, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to an improvement in power looms, and particularly to means for securing floating filling at the selvage of fabrics.

The object of the invention is the provision of means for holding the floating filling (of sheared fabrics) at the selvage to prevent it from drawing out of the fabric.

Another object of the invention is the provision of means for arresting the filling thread upon its return journey across the fabric, and thus secure it in position at the selvage.

With these and other objects in view, the invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a view in side elevation of a device constructed in accordance with the present invention. Fig. 2 is a fragmentary, enlarged view in front elevation, of the structure depicted in Fig. 1. Fig. 3 is a view, in side elevation, of the guide-bracket. Fig. 4 is a top plan view of the lever. Fig. 5 is a top plan view of the stud attachment for the needle.

Referring to the drawings by numerals, 1 designates the batten or slay, and 2 the reed-cap or slay-cap, carrying the reed 3.

A loom box 4 is carried by a portion of the loom and a shuttle 5 is in said box. The shuttle shown, at 6, illustrates the same upon the return journey passing the needle 7, which has been raised to intercept the filling thread 8, and thus prevent it from being drawn out of the fabric. Through the medium of the picker stick 9, pivotally mounted at 10, upon any suitable part of a loom, movement is imparted to the shuttle 5. The upper end or portion of the needle 7 is slidably mounted in an eye-bolt or apertured guide-member 11, and the lower end of said needle is positioned in an aperture formed in the detachable plate or bar 12,

carried by the outer portion 13 of lever 14. By means of a thumb-bolt or screw 15, the needle 7 is detachably secured upon the plate 12. It is to be noted that the plate 12 is secured to the portion 13 of the lever 14 by means of thumb-bolts or screws 16. The portion 13 of lever 14 is integral at its inner end with a right-angled portion 17 of the body 18 of said lever. The inner end of the body 18 is suitably connected to plate or member 19, which plate or member 19 is carried by the frame 20 of the loom. A hook 21 is, preferably, detachably secured to the angle portion 17 of the lever. A yieldable member, as for instance, a coil spring 22, is secured at its lower end to the hook 21, and its upper end is secured to a strap or connecting member 23, which is passed around a pulley or roller 24 and secured at its opposite end to a dobby jack or cam 25. Upon movement being imparted to the dobby jack or cam 25, the lever 14 will be raised and lowered, and the spring 22 will ease off the pressure of the dobby jack or cam. I provide a stand or support 26, upon which the lever 14 rests when not being operated.

The stud attachment 27, carried by the needle 7, comprises a body portion 28 having a vertical aperture 29 through which extends the needle 7. The thumb-screws or bolts are employed for securing the stud attachment in an adjusted position upon the needle 7. It is to be noted that the stud attachment can be adjusted longitudinally of or entirely removed off of the needle by loosening the thumb-screws or bolts 30. Extending horizontally from the body 28 is a stem or extension 31. A flange 32 is integral with the outer end of the stem or extension 31. The body 28 engages the inner edge of the outer, inclined vertical portion 33 of the guide bracket 34, and the flange or head 32 engages the outer edge; the stud attachment 27 sliding upon the inner face of the portion 33 when the device is in operation, thereby guiding the needle contiguous to its lower end. The bracket comprises said front, inclined portion 33, bottom portion 34, and rear, inclined portion 35, all of which portions are integral, as said bracket is formed in, preferably, one piece; the rear portion 35 being secured by any suitable fastening means, to the frame 20 of the loom. As the outer

end of the lever moves in an arc of a circle, the outer portion 33 of the bracket is slightly inclined to accommodate the movement of the lever, because it is, preferably, pivoted, at its inner end, upon the loom-frame 20. The eye-bolt or guide-member 11 has an aperture of sufficient elongation or size to permit a free movement of the needle 7 during its operation; it is to be noted that the needle 7 constitutes a movable stop for arresting the filling thread upon its return journey across the fabric, as above stated.

It is to be noted that I have provided a needle, constituting a stop, which coöperates with means for causing the same to rise and fall at intervals and arrest the filling thread, as stated. This arresting of the filling thread secures the floating filling at the selvage of the fabric, which is of great importance, and, owing to the simplicity of my structure, I have provided a device comparatively inexpensive to construct and which is of great utility in the art to which it relates.

In the foregoing specification, it is to be noted that I have used the word "needle" in a generic sense for designating a stop or vertically-movable member which intercepts or arrests the filling thread.

What I claim is:

1. In a device of the character described, the combination with a support, of a guide-bracket, comprising an inner and an outer portion, the inner portion secured to said support and the outer portion spaced therefrom, a vertically-movable needle, means slidably connecting said needle to the outer portion of said bracket, and means for moving said needle.

2. In a device of the character described, the combination with a support, of a guide-bracket provided with front and a rear portion, a movable needle positioned contiguous to said bracket, means carried by said needle and positioned between said portions of the

bracket for guiding said needle upon said bracket, and means for moving said needle.

3. In a device of the character described, the combination with a support, a guide-bracket carried by said support, of a movable needle positioned contiguous to said bracket, a stud engaging said needle and engaging the edges of said bracket for guiding said needle upon said bracket, and means for moving said needle.

4. In a device of the character described, the combination with a support, of a bracket provided with an outer portion, secured to said support, a movable needle, a stud slidably mounted upon said needle, means for securing said stud in an adjusted position upon said needle, said stud provided with a body portion, a stem extending from said body portion, a head or flange formed upon the outer end of said stem, said body portion and flange engaging opposite portions of said bracket for guiding said needle upon the bracket, and means for moving said needle.

5. In a loom, the combination with a support, a movable lever carried by said support, a dobby jack, means connecting said jack to said lever intermediate its ends, of means carried by said lever, near one end, for intercepting or arresting a filling thread when said lever is operated.

6. In a loom, the combination with a support, a movable lever carried by said support, a dobby jack, means connecting said jack to the lever, of detachable means carried by the lever and being capable of vertical movement when the lever is operated for intercepting or arresting the filling thread.

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

JOSEPH HARGREAVES.

Witnesses:

MAUDE A. PHILLIPS,
ELBERT L. DARBY.