May 20, 1924. 1,494,992

W. F. CLAYTON

CHECK FOR LOOMS

Filed Oct. 11, 1922

Fig. 1.

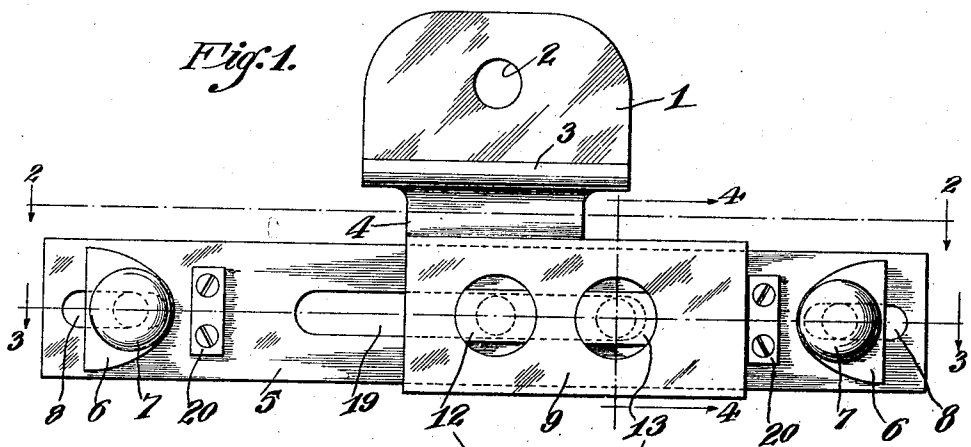


Fig. 2.

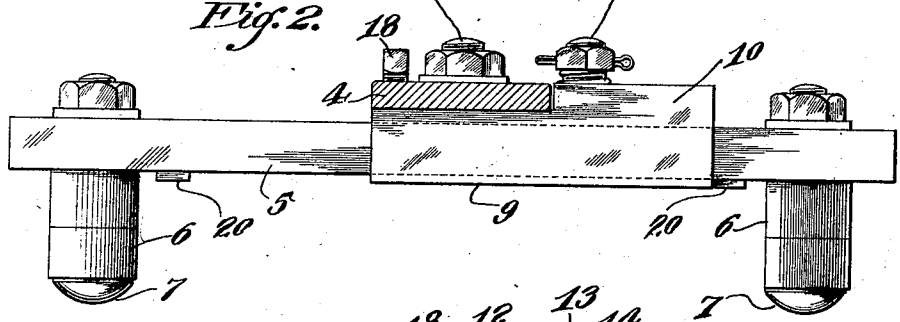


Fig. 3.

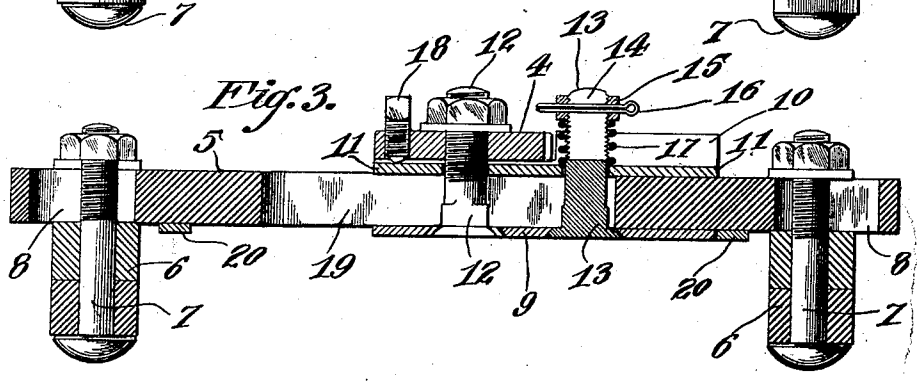
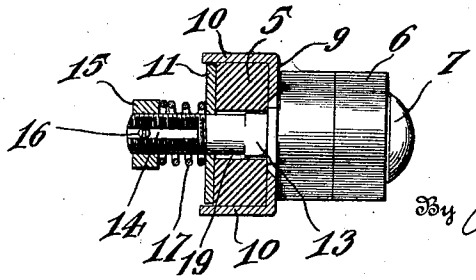


Fig. 4.



Inventor

Wm. F. Clayton

By Beall & Remmick

Attorneys

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UNITED STATES PATENT OFFICE.

WILLIAM FRANKLIN CLAYTON, OF HUNTSVILLE, ALABAMA.

CHECK FOR LOOMS.

Application filed October 11, 1922. Serial No. 593,776.

To all whom it may concern:

Be it known that I, WILLIAM F. CLAYTON, a citizen of the United States, residing at Huntsville, in the county of Madison and State of Alabama, have invented certain new and useful Improvements in Checks for Looms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to checks for looms and the object is to provide a device of the character indicated of an improved and simplified structure lending itself to easy adjustment. A further object is to provide an improved tension device for such a structure.

The invention consists in novel construction arrangement and combinations of parts as hereinafter more particularly described and claimed.

One sheet of drawings accompanies this specification as part thereof, in which like reference characters indicate similar parts throughout.

Figure 1 is a plan view of an improved loom check;

Fig. 2 is a top view showing the bracket in section and taken on line 2—2 of Fig. 1;

Fig. 3 is a longitudinal sectional view taken on line 3—3 of Fig. 1, and

Fig. 4 is a transverse sectional view taken on line 4—4 of Fig. 1.

In accordance with my present invention, a bracket 1 is provided, having a shoulder 3 and an orifice 2 by means of which it can be secured with a bolt to the side of the loom lay (not shown). The bracket is further provided with a depending tab 4 adapted to support a slide 5 carrying laterally extending checks 6 adjacent each end. These checks may be made of leather, fibre, or other suitable material adapted not to injure the picker stick which is designed to operate between them. The checks 6 are adjustably secured as by bolts 7 passing through longitudinally extending slots 8 provided in the slide 5.

A cuff 9 of suitable metal is provided, being substantially of U-shape in transverse section and adapted to receive and guide the slide 5, as is well illustrated in Fig. 4. The side members 10 of the cuff 9 are cut away to receive the tab 4 of bracket 1 and a tension plate 11 is provided to seat between the side members 10 of the cuff 9 and over the slide as indicated in Fig. 4.

A longitudinal slot 19 is provided in the slide 5 between the check members 6 and a bolt 12 passes through the base of cuff 9, slot 19 of the slide, the tension plate 11 and tab 4 of the bracket to secure said parts. A second bolt 13 passes through cuff 9, slot 19 and tension plate 11, this bolt being provided with a longitudinal slot 14 and a nut 15 having a diametrically disposed hole adapted to receive a cotter or other suitable pin 16. A compression spring 17 is positioned between tension plate 11 and nut 15 and the tension of this spring upon the tension plate can be readily adjusted by means of nut 15 and secured at this tension by means of the cotter pin co-acting with the slot 14. To evenly distribute the tension of spring 17 upon tension plate 11, an adjustment screw 18 is provided threaded through tab 4 of the bracket and operative upon the opposite end of tension plate 11 as illustrated in Fig. 3.

Stop members 20 may be secured upon the face of slide 5 adjacent stops 6 adapted to co-act with the ends of cuff 9 so that the bolts 12—13 will not be brought in contact with the ends of slot 19.

It will be noted that, with the structure thus described, a uniform tension is exerted upon the slide member 5 and that this tension may be varied as desired. If necessary, reinforcing means may be used in connection with stops 6 but it is believed that they can be adjustably secured with sufficient rigidity by the bolts 7, as illustrated.

Having thus fully described my invention, I claim:—

1. In a device of the character described, a bracket, a cuff of U-shaped cross section, means for removably securing the cuff to the bracket, a tension plate adapted to be seated within the cuff to form therewith an en-

closed slideway, a slide operable within said slideway, and tension means operating independently of the bracket to force the tension plate and cuff against the slide.

2. In a device of the character described, a bracket, a cuff of U-shaped cross section, a tension plate positioned within the cuff, means for adjusting the tension plate with respect to the bracket and tension means for forcing the tension plate independently of the bracket into the cuff.

In testimony whereof I affix my signature.

WILLIAM FRANKLIN CLAYTON.