

No. 649,196.

Patented May 8. 1900.

E. DIXON.

TOP ROLL SADDLE.

(Application filed Aug. 21, 1899.)

(No Model.)

Fig. 1.

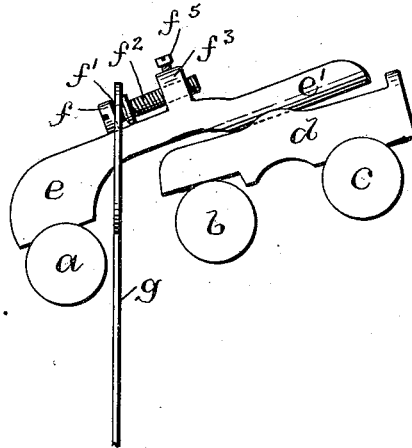


Fig. 2.

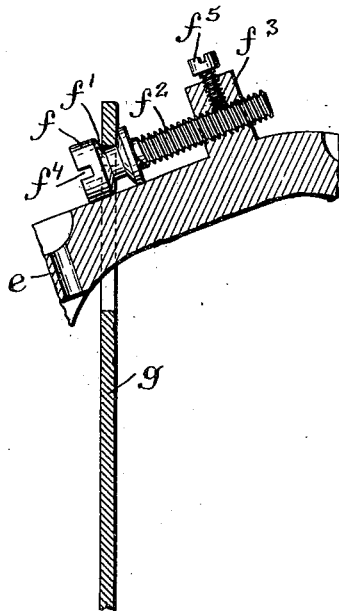
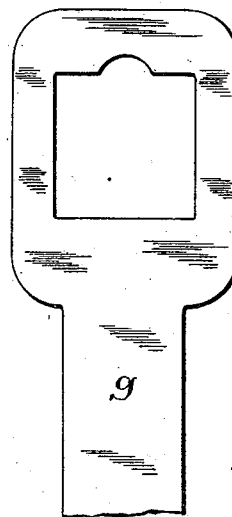


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

EZRA DIXON, OF BRISTOL, RHODE ISLAND.

## TOP-ROLL SADDLE.

SPECIFICATION forming part of Letters Patent No. 649,196, dated May 8, 1900.

Application filed August 21, 1899. Serial No. 727,896. (No model.)

*To all whom it may concern:*

Be it known that I, EZRA DIXON, a citizen of the United States, residing at Bristol, in the county of Bristol and State of Rhode Island, have invented a new and useful Improvement in Top-Roll Saddles, of which the following is a specification.

This invention has reference to an improvement in top-roll saddles for spinning-machines; and it consists in the peculiar and novel construction whereby the weight-strap may be adjusted, as will be more fully set forth hereinafter.

The top rolls of spinning-machines have to be adjusted closer to or farther from the front or delivery roll to adapt them to the varying condition of the roving, and top-roll saddles have been constructed to permit of such adjustment; but such top-roll saddles were provided with fixed notches in which the weight-strap rested. It is also desirable to vary the pressure exerted on the top rolls by the weight supported by the weight-strap, usually so as to exert less pressure on the rear than on the intermediate and front roll.

The object of this invention is to permit of the adjustment of the support of the weight-strap on the saddle while the machine is in operation.

Figure 1 is an end view of the top rolls of a spinning-machine provided with top-roll saddles, showing the top saddle resting on the front roll and rear saddle provided with an adjustable weight-strap support. Fig. 2 is a sectional view of part of the top saddle, showing the preferred form of the adjustable weight-strap support. Fig. 3 is a side view of the end of the weight-strap, showing the preferred form of opening in the same.

In the drawings, *a* indicates the front top roll; *b*, the intermediate and *c* the rear top roll; *d*, the rear saddle, and *e* the top saddle resting on the front roll *a* at one end and on the rear saddle by the extension *e'* of the top saddle. The top saddle is provided with the supporting member *f*, which is supported on the top saddle *a* and forms the support for the weight-strap *g*. The member *f* is provided with a notch *f'*, which forms the seat for the weight-strap. The member *f* forms the end of the bar *f<sup>2</sup>*, which is in the preferred form in screw-thread engagement with the rib *f<sup>3</sup>*. The notch *f<sup>4</sup>* in the member *f* permits

of the rotation of the member *f* and the screw-bar *f<sup>2</sup>* to adjust the same longitudinally on the top saddle and with the same the weight-strap to the desired position. The clamp-screw *f<sup>3</sup>* may be used to clamp the bar *f<sup>2</sup>* in the adjusted position, and the notch *f<sup>4</sup>* forms, preferably, an annular groove.

By the adjustment of the support for the weight-strap on the top saddle the position of the weight-strap and the pressure on the rolls may be adjusted while the parts are in position with great nicety.

I do not wish to confine myself to the exact construction of the adjustable weight-strap support, as the same may be varied without materially affecting the operation of the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a top-roll saddle, the combination with the saddle of a weight-strap support adjustably connected with the saddle, as described.

2. A top saddle for spinning-machines, having a support for the weight-strap adjustably supported on the saddle.

3. The combination with the top saddle of a weight-strap member adjustably secured to the saddle, whereby the support of the weight-strap may be adjusted on the saddle, as described.

4. The combination with the top saddle of the supporting member *f* having the bar *f<sup>2</sup>* adjustably secured to a part of the saddle, as described.

5. The combination with the top saddle *e*, the rib *f<sup>3</sup>* and the weight-strap *g*, of the member *f*, the bar *f<sup>2</sup>* and means for securing the member *f* in the adjusted position, as described.

6. In combination with the saddle *e* and the rib *f<sup>3</sup>* on the saddle, of the member *f*, the annular groove or notch *f<sup>4</sup>* on the member and the screw-threaded bar *f<sup>2</sup>* in screw-thread engagement with the rib *f<sup>3</sup>*; whereby the weight-strap may be adjusted on the saddle, as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EZRA DIXON.

Witnesses:

B. M. SIMMS,

J. A. MILLER, Jr.