E. DIXON.

WEIGHT STRAP FOR SPINNING MACHINES.

APPLICATION FILED SEPT. 26, 1906.

912,651. Patented Feb. 16, 1909.

Fig. 1.

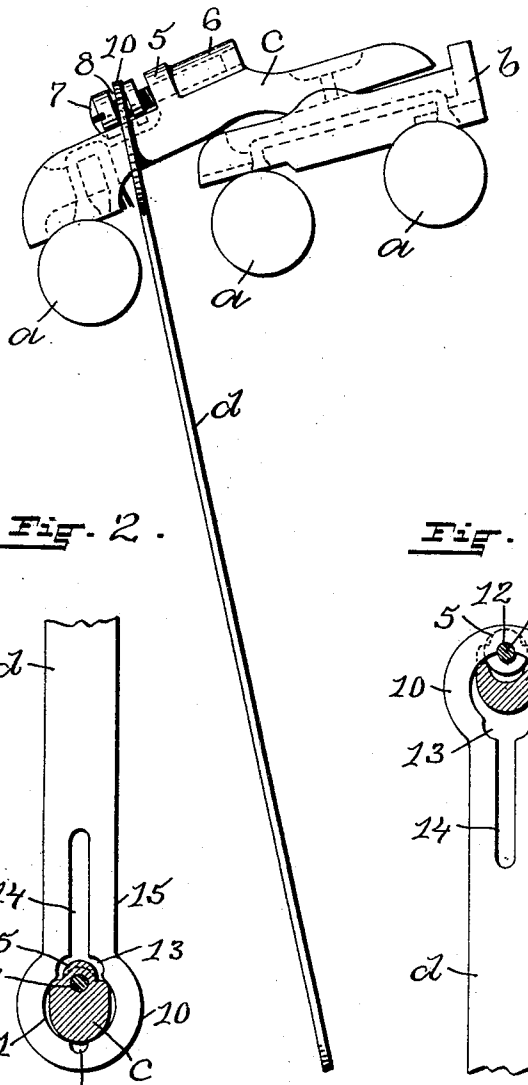


Fig. 4.

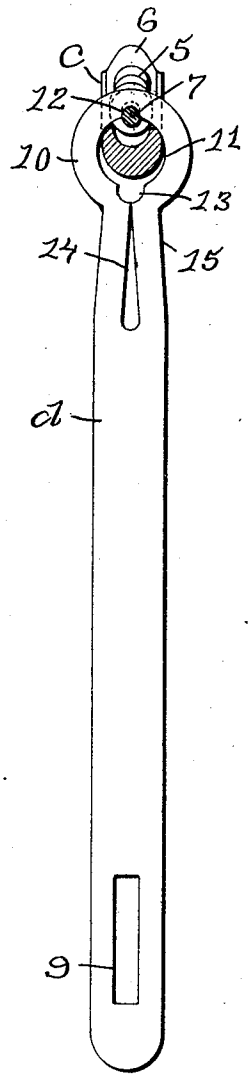


Fig. 2.

Fig. 3.

WITNESSES:

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WEIGHT-STRAP FOR SPINNING-MACHINES.

No. 912,651. Specification of Letters Patent. Patented Feb. 16, 1909.

Application filed September 26, 1906. Serial No. 336,347.

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 Weight-Straps for Spinning-Machines, of which the following is a specification.

This invention has reference to an improvement in spinning machines and more particularly to an improvement in weight straps for spinning machines.

Weight straps for spinning machines as heretofore constructed are removably attached to the front top roll saddle. In practice it has been found that these straps through the vibration of the machine or other causes are liable to become misplaced on the saddle or lost when separated from the saddle.

The object of my invention is to improve the construction of a weight strap for spinning machines whereby the weight strap is operatively secured to the front top roll saddle and may be adjusted on the saddle.

My invention consists in the peculiar and novel construction of a weight strap for spinning machines, as will be more fully set forth hereinafter and claimed.

Figure 1 is a side view of the top roll saddles in their operative position on the journals and showing the same provided with my improved weight strap. Fig. 2 is a transverse sectional view through the stop on the saddle with the strap in an inverted position, illustrating the method of passing the strap over the stop on the saddle. Fig. 3 is a transverse sectional view through the saddle with the strap in its normal operative position on the saddle before permanently securing the strap to the saddle, and Fig. 4 is a transverse sectional view through the saddle with the strap operatively secured to the saddle.

In the drawings, *a a* indicate the top roll journals, *b* the back saddle, *c* the front saddle, and *d* my improved weight strap.

The front saddle *c* has the upwardly-extending stop 5 and may be provided with any of the usual means for adjusting the strap on the saddle. In the preferred form a boss 6 is formed on the top of the saddle back of the stop 5 and a screw 7, having an annular groove 8 in its head for the strap *d*, is screwed longitudinally into the boss, as shown in Fig. 1.

The weight strap *d* is struck from sheet metal in an elongated form and has a slot 9 in its lower end for a weight lever (not shown), an enlarged round upper head end 10 in which is a central circular hole 11 for the saddle *c* and having a semi-circular notch 12 in its upper edge for the shank of the screw 7, and an opening 13 in its lower edge merging into a comparatively wide slit 14 which extends centrally downward into the neck 15 of the strap, as shown in Figs. 2 and 3.

The strap *d* is operatively secured to the front saddle *c* by inverting the strap and passing the rear end of the saddle through the hole 11 in the head end 10 in a position for the stop on the saddle to pass through the opening 13 in the strap, (as shown in Fig. 2) which is now reversed to bring the notch 12 onto the shank of the screw 7 in the groove 8, as shown in Fig. 3. The neck 15 of the strap is now compressed edgewise by a suitable tool to bring the upper edges of the slit 14 together and contract the head end 10, the hole 11 in the head and the opening 13, as shown in Fig. 4, thereby locking the strap between the stop 5 and the enlarged forward end of the saddle, as shown in Fig. 1. The strap may be easily and quickly removed from the saddle if required by forcing a tool into the slit 14 and expanding the head end 10 into its original size.

It is evident that the construction of the head end 10 of the strap could be changed to conform to different makes of saddles without materially affecting the spirit of my invention.

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

1. A weight strap of elongated form having a head provided with a hole merging into a slit which extends centrally downward into the neck of the strap, the side walls of which slit are so constructed that the slit may be contracted to secure the strap upon the saddle, as described.

2. In a spinning machine, a weight strap *d* struck from sheet metal in an elongated form and having a slot 9 in its lower end, an enlarged head end 10 in which is a hole 11 having an opening 13 in its lower edge

merging into a slit 14 which extends centrally downward into the neck 15 of the strap, the neck 15 being so constructed that the slit 14 may be contracted to secure the strap upon the saddle, as described.

3. In a spinning machine, the combination with a front top roll saddle *c* having a stop 5, a boss 6, a screw 7 in the boss 6 having an annular groove 8 in its head, of a weight strap *d* having a slot 9 in its lower end, an enlarged head end 10 in which is a hole 11 having a notch 12 in its upper edge and an opening 13 in its lower edge merging into a slit 14 which extends centrally downward into the neck 15 of the strap, whereby the weight strap *d* is adapted to be operatively secured to the saddle *c*, as described.

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

EZRA DIXON.

Witnesses:
ADA E. HAGERTY,
J. A. MILLER.