(No Model.)

E. DIXON.

SADDLE FOR TOP ROLLS OF SPINNING MACHINES.

No. 493,912. Patented Mar. 21, 1893.

Fig. 1.

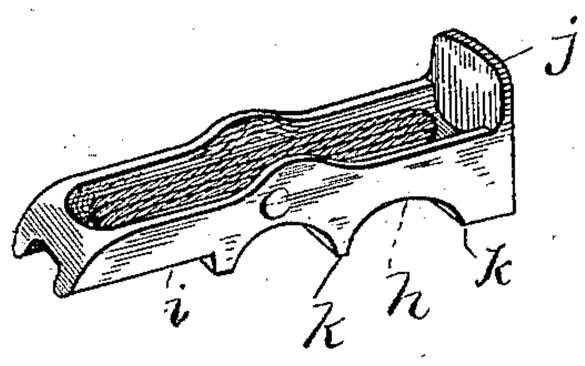
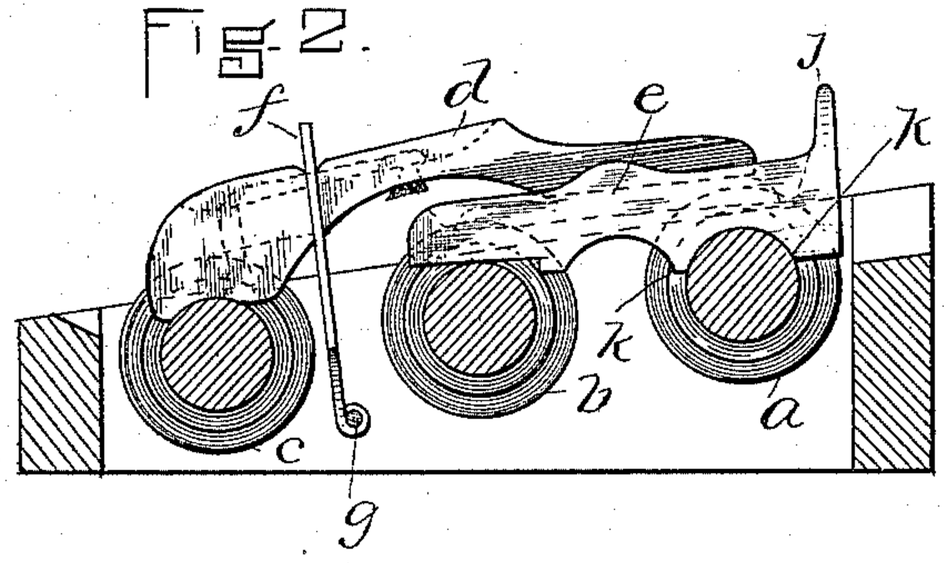


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EZRA DIXON, OF BRISTOL, RHODE ISLAND.

SADDLE FOR TOP ROLLS OF SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 493,912, dated March 21, 1893.

Application filed January 4, 1892. Serial No. 416,989. (No model.)

To all whom it may concern:

Be it known that I, EZRA DIXON, of Bristol, in the county of Bristol and State of Rhode Island, have invented certain new and useful Improvements in Saddles for Top Rolls of Spinning-Machines, of which the following is a specification.

In the construction of saddles for top rolls for spinning machines, of the kind most commonly used in which the front portion of the back saddle extends under the front saddle, and the rear end of the back saddle extends directly in the rear of the front saddle, the back saddle has heretofore been so formed as to cause it to bear more heavily on the rear roll than on the roll next in front thereof, and the form of the saddle has been such that it has been difficult, without close inspection of the same, to determine which was its front and which its rear end; so that if it were put in position "wrong end to" it would fail to operate properly; that is, it would be caused to bear on the rolls in proportions the opposite of that intended, and as spinners are often careless in their work, or not quick of perception, it not infrequently happens that the back saddle is placed upon the rolls in the wrong position, resulting in imperfect work. Again, as heretofore constructed, the back saddle was unprovided with means whereby it could be readily taken hold of to be lifted and removed from place and returned again to position under the forward saddle.

It is the purpose of my improvements to remedy the deficiencies mentioned, and to provide means whereby the objections and difficulties before mentioned may be overcome.

To these ends my invention consists of a saddle for the top rolls of spinning machines, having its rearward end provided with a flanged thumb-piece or up-turned portion, constituting a handle, which enables it to be engaged by the thumb and fingers of the hand of an operative to remove and replace it, and also provides it with means whereby an operative may readily distinguish the rearward from the forward end, and so with absolute certainty avoid misplacing it upon the rolls.

Reference is to be had to the annexed drawings, forming a part of this specification, of which—

Figure 1 is a perspective view of my improved back saddle. Fig. 2 is a sectional side elevation of the same in connection with the front saddle, all in position on the rolls of a spinning frame.

The same letters of reference designate the same parts or features, as the case may be, in both views.

In the drawings, *a b c* designate what may be understood to be the top rolls of a spinning frame.

d is the forward saddle arranged to bear at its front end upon the roll *c* and to rest at its rearward end upon the back saddle *e*, which latter saddle rests upon the rolls *a* and *b*. The saddle *d* is held down with uniform tension, bearing upon the back saddle *e*, by means of a yoke *f*, which is attached at its lower end to a spring rod *g*. Other means may, however, be provided for this purpose. The back saddle *e* has its bearings *h i* so formed as that said saddle may bear more lightly upon the roll *b* than upon the roll *a*, which operation is necessary to the performance of perfect work.

As hereinbefore stated, the back saddle, as commonly constructed, has been so formed as to make it difficult to distinguish between its rear and front ends, so that it was frequently misplaced upon the rolls *a b*, and caused to bear thereon with a tension contrary to that intended, and besides this the back saddle has heretofore been unprovided with means whereby the spinner could readily take hold of it to manipulate it.

In order to provide the saddle with a feature distinguishing its rear from its front end, and at the same time furnish it with means whereby it may be readily manipulated, I construct on the rear end an upwardly projecting flange *j*, forming a handle or thumb piece, as shown. This improvement is very important since it renders it impossible for the spinner to unknowingly misplace the back saddle, and at the same time provides the same with means whereby it may be readily taken hold of to be lifted out of place and put back, thus effecting a saving of time and trouble.

Another feature combined with this improvement is embraced in the fact that I provide the under face of the back saddle with downwardly curved lips *k* which fit over the

shaft of the back roll *a*, and prevent longitudinal displacement of the saddle. As heretofore most commonly constructed, the bearing point of the saddle upon the roll has been so formed that there was liability of the saddle sliding or being moved out of place in the ordinary use of the machine.

Having thus explained the nature of the invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, it is declared that what is claimed is—

1. A back-saddle for the top rolls of spinning machines having its front portion constructed to extend under the front saddle, and its rear portion to extend rearwardly from the rear end of the front saddle, the said back saddle being provided on its rear end with the upturned flange or thumb-piece *j*, whereby it is rendered impossible for the spinner to misplace the back saddle in the machine, by reversing the position of its ends, as set forth.

2. A back-saddle for the top rolls of spinning machines having its front portion constructed to extend under the front saddle and its rear portion to extend rearwardly from the rear end of the front saddle, the said back saddle being provided on its rear end with the upturned flange or thumb-piece *j*, and having the downwardly curved lips *k*, on opposite sides of the bearing point of the saddle upon the shaft of the roll, all as and for the purposes set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 17th day of December, A. D. 1891.

EZRA DIXON.

Witnesses:
P. SKINNER, Jr.,
JOHN G. WATSON.