

R. KOREF.
WASTE CLEANER FOR RING SPINNING MACHINES.
APPLICATION FILED AUG. 7, 1909.

954,975.

Patented Apr. 12, 1910.
2 SHEETS—SHEET 1.

Fig. 1

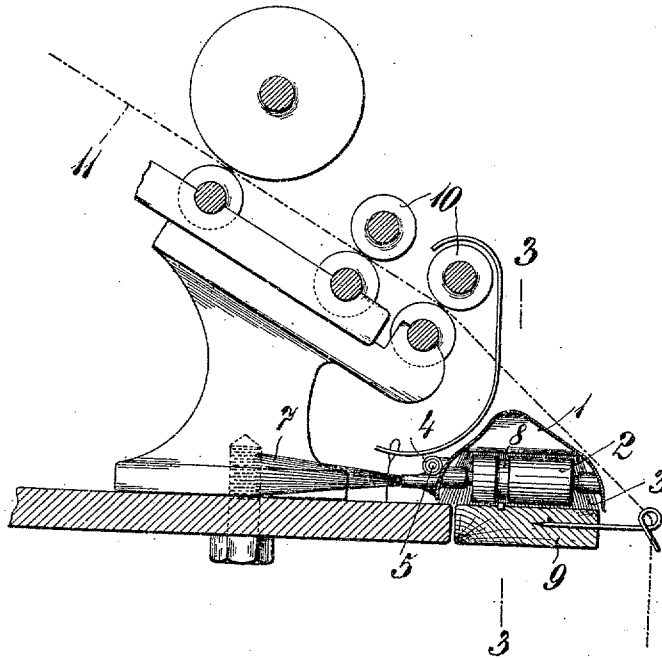
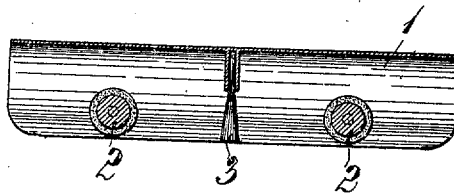


Fig. 3



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2 SHEETS—SHEET 2.

Fig. 2

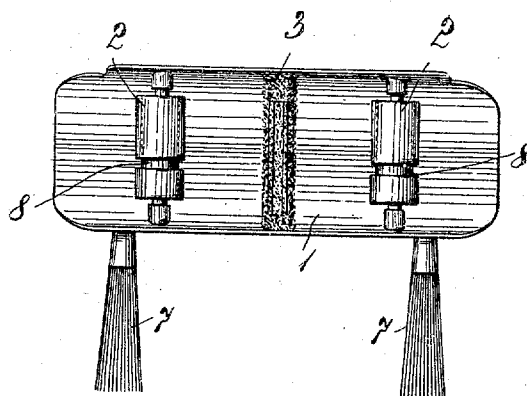
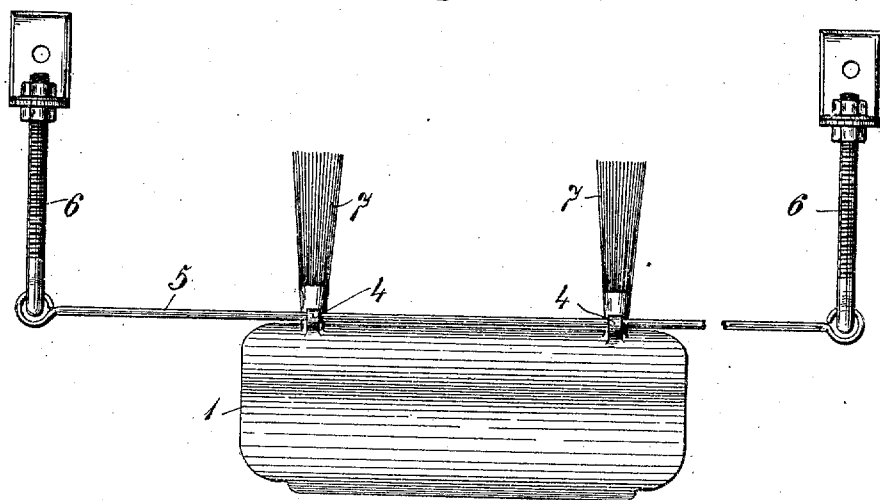


Fig. 4

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UNITED STATES PATENT OFFICE.

RICHARD KOREF, OF VIENNA, AUSTRIA-HUNGARY.

WASTE-CLEANER FOR RING-SPINNING MACHINES.

954,975.

Specification of Letters Patent.

Patented Apr. 12, 1910.

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To all whom it may concern:

Be it known that I, RICHARD KOREF, consulting engineer, a subject of the Austro-Hungarian Emperor, and resident of 17 Servitengasse, Vienna, IX, Austria-Hungary, have invented a Waste-Cleaner for Ring-Spinning Machines, of which the following is a specification.

In ring spinning machines it is well known that fibers become detached from the yarn as it leaves the drawing rollers and these fibers in a great measure fall on to the thread-board below, on which they get heaped up. Whenever these fibers get into the thread guides they are carried along by the threads as they run through, and the threads thus get thickened parts on them and dirt, giving the yarn a very irregular appearance. To avoid these disadvantages it is necessary from time to time to clear the thread-board of the fibers, dust, etc., heaped up on it. Hitherto this cleaning has been generally done in a very unsatisfactory fashion, either with a simple board or with a painter's brush, a papier-mâché lid or a light dusting brush, or something similar. When the implement used for cleaning was pushed along, a little heap of dust collected in front of it and was forced along by the brush, etc. so that quite a considerable proportion of the dust and dirt was taken up by the threads and caused the formation of the already mentioned thick parts and irregularities in the yarn produced. The same difficulty was met with in the use of any of the various contrivances hitherto employed for cleaning, as these cleaners consisted in most cases of a little board or pieces of wood lined on the underside with plush or similar material, which pushed the fibers in front of it as it passed along the thread-board. To get over these difficulties the present carding-waste cleaner has been invented.

Under my invention the improved cleaner consists essentially of a hood in the hollow part of which, on two ends of a brush fitted across the hood, there are two rollers covered with felt, while the hood itself is guided along the thread-board on a bar or rod.

In order that my invention may be clearly understood I have appended hereunto explanatory drawings whereon the subject of the invention is shown in one form by way of example.

Figure 1 is a cross section showing the portion of a ring spinning machine carrying

the drawing rollers and the thread-board, fitted with the waste cleaner. Fig. 2 shows the waste cleaner alone, as seen from above. Fig. 3 is a longitudinal section on the line 3—3 of Fig. 1. Fig. 4 is a view of the latter from below.

The waste cleaner consists of a hood 1 which may advantageously be made of sheet metal, and in its interior, near to the extremities are fitted two rollers 2 covered with felt or similar material. In the space between the two rollers there is a small brush 3, which takes up the whole breadth in the cross direction of the hood. On the inner surface of the hood there are two eye-holes 4, by means of which the hood is carried on a rod 5 along the thread board 9. This rod is secured to the frame of the machine at both ends by attachments 6. (See Fig. 2.) On the outer surface of the hood there are fitted two brushes 7, which serve to clean the cylinder frame in the usual way. If there are any screws or hinges on the thread-board, corresponding grooves 8 must be made on the rollers 2.

The waste cleaner may advantageously be operated by hand but it can also be moved backward and forward on the thread-board by mechanical power. In the course of its movement backward and forward on the thread-board the dust which lies on the latter will adhere to that one of the two rollers which happens to be the front one, according to the direction of movement, and will be rolled up on it. If large quantities of dust are present, the dust will be collected between the front roller above referred to and the brush 3. The brush carries away with it the last fibers left on the thread-board. If the direction of movement of the waste cleaner be reversed the second roller will come into operation in an exactly similar fashion.

A particular advantage of the cleaner is that the fibers are removed while under the hood, so that any raising of dust is prevented. The threads 11, coming from the drawing rollers 10, pass above the hood. They are thus protected from any injury, and no breakage of the threads can occur, as the cleaner is guided on the rod 5 and cannot deviate from its course.

Having now fully described my invention, I declare that what I claim is:

1. Waste cleaner for ring spinning machines, consisting of a hood (1), in the in-

terior of which, near to the extremities two rollers (2) covered with felt or similar material are arranged, between said rollers a brush (3) being fitted across the hood, substantially and for the purpose set forth.

2. Waste cleaner for ring spinning machines, consisting of a hood with two rollers and a brush fitted in the interior of the hood, said hood being carried by two eye-holes (4) fixed on its outer surface on a rod (5) along the thread-board of the spinning machine, substantially as described.

3. Waste cleaner for ring spinning ma-

chines, consisting of a hood with two rollers and a brush fitted in the interior of the hood, said hood being carried on a rod (5) along the thread-board of the spinning machine, on the outer surface of the hood two brushes (7) being fitted for cleaning the cylinder frame, substantially as described.

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

RICHARD KOREF.

Witnesses:

ALFRED BERAN,
AUGUST FUGGER.