(No Model.)

A. PETTENGILL.

YARN GUIDE AND GUARD FOR SPINNING FRAMES.

No. 306,348. Patented Oct. 7, 1884.

Fig: 1.

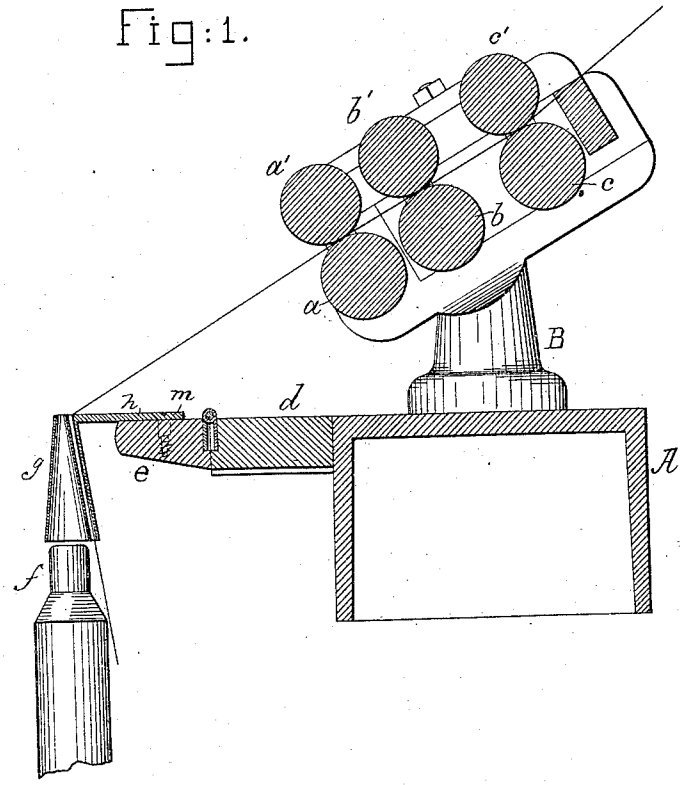
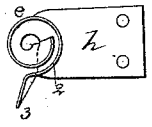


Fig: 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

ASA PETTENGILL, OF PETERBOROUGH, N. H., ASSIGNOR OF ONE-HALF TO GEORGE DRAPER & SONS, OF HOPEDALE, MASS.

YARN GUIDE AND GUARD FOR SPINNING-FRAMES.

SPECIFICATION forming part of Letters Patent No. 306,348, dated October 7, 1884.

Application filed October 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, ASA PETTENGILL, of Peterborough, county of Hillsborough, State of New Hampshire, have invented an Improvement in Spinning-Frames, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention in spinning-frames relates more especially to guides and guards or separators for the yarn, the same being adapted to take the place of the usual guide-wire and guards or separators which are commonly applied to the ring-rail or roller-beam between adjacent bobbins.

The invention consists in a guide and guard for spinning-frames, composed, essentially, o an open-sided elongated tapered scroll having between its folds a passage through which to lead the yarn into the center of the scroll, and an outer lip projecting therefrom to form a wide mouth for the easy introduction of the yarn into the device, all as hereinafter particularly set forth and claimed.

Figure 1 is a sectional detail of a sufficient portion of a ring-spinning frame of usual construction, showing my improved guide and guard or separator in section, and Fig. 2 an under side view of my improved guide and guard.

The roller-beam A, roller-stand B, rolls *a b c a' b' c'*, board *d*, hinged guide-board *e*, and bobbin *f*, are all as usual, and will be actuated in usual manner.

Instead of the usual guide-eye composed of wire, I employ a combined guide and guard, *g*, shown as shaped like a scroll, and attached to a plate, *h*, which is secured to the guide-board *e* by a suitable screw or screws, *m*. This scroll, tapered and made smallest at its upper end, is wrapped about itself to form a passage, 2, through which to lead the yarn into the center of the scroll, and the outer lip, 3, of the scroll is directed outward, as in Fig. 2, to form a wide mouth for the easy introduction of yarn into the guide and guard.

This improved device serves all the purposes of a guide-eye, and in addition thereto it serves as a guard or separator, to prevent that part of the yarn between the guide-board *e* or the upper end of the scroll and the usual traveler (not shown) from bowing or throwing out sufficiently to strike an adjacent yarn, or one broken end from striking against and breaking down an adjacent unbroken yarn, or from doubling upon and making the said yarn gouty in spots.

I claim—

The guide and guard for spinning-frames, consisting, essentially, of the open-sided elongated tapered scroll *e*, having the passage 2 and lip 3, substantially as shown and described.

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

ASA PETTENGILL.

Witnesses:

JOS. P. LIVERMORE,

B. J. NOYES.