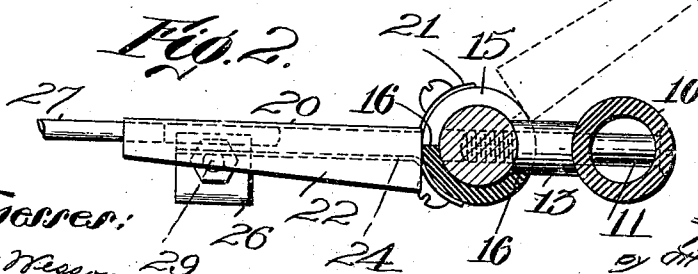
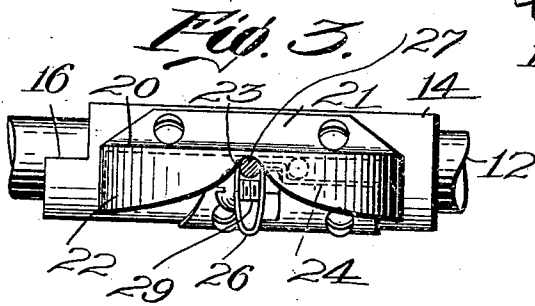
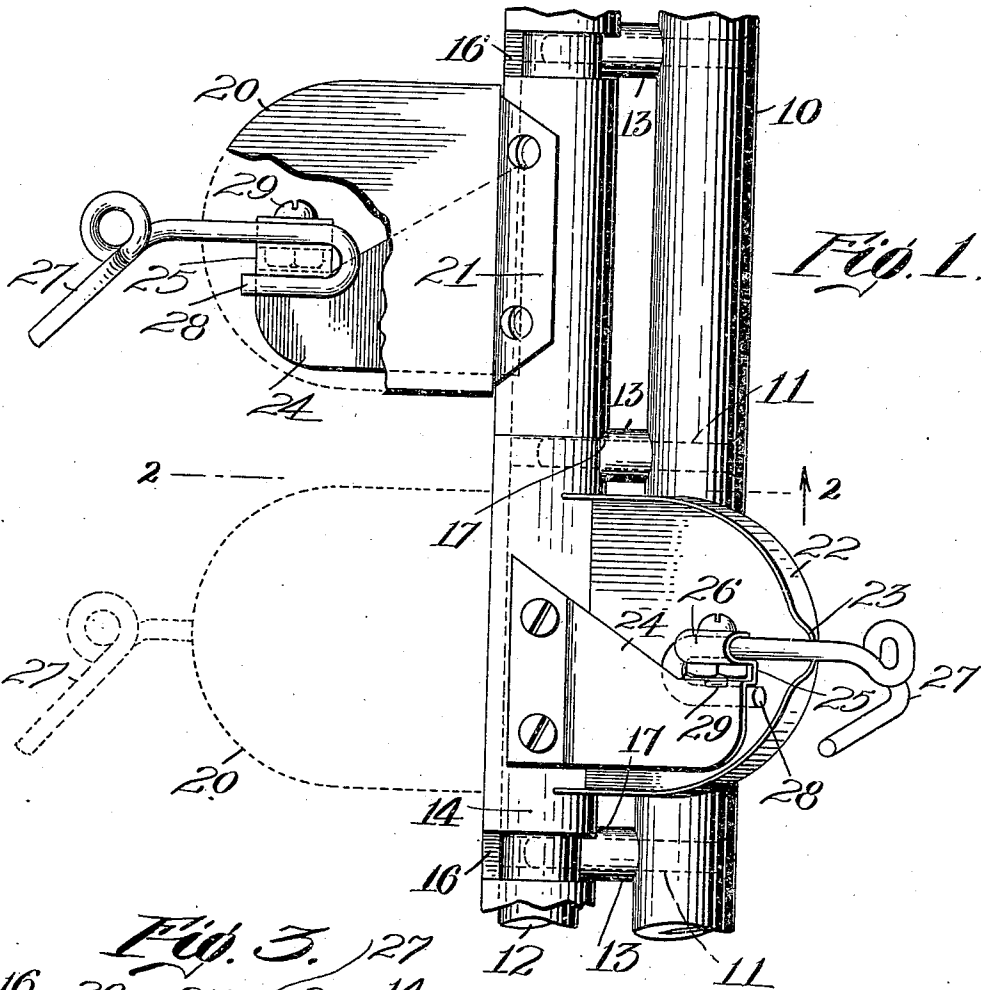


W. FORGET.
 THREAD GUIDE SUPPORT FOR SPINNING MACHINES.
 APPLICATION FILED JULY 14, 1909.

951,310.

Patented Mar. 8, 1910.



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UNITED STATES PATENT OFFICE.

WILLIAM FORGET, OF UXBRIDGE, MASSACHUSETTS.

THREAD-GUIDE SUPPORT FOR SPINNING-MACHINES.

951,310.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed July 14, 1909. Serial No. 507,499.

To all whom it may concern:

Be it known that I, WILLIAM FORGET, a citizen of the United States, residing at Uxbridge, in the county of Worcester and State of Massachusetts, have invented a new and useful Thread-Guide Support for Spinning-Machines, of which the following is a specification.

This invention relates to a thread-guide support for spinning machines.

The principal objects of the invention are to provide a construction which can be made entirely of metal, which can be so constructed that there will be very few places in which lint can gather to such an extent as to have any bad effect upon the operation of the device; to provide an accurate and adjustable means for holding the pig-tail or thread-guide in proper position; to provide a simple stopping device for limiting the lower and upper positions of the pig-tail holder; and generally to improve the details of construction of devices of this character.

Reference is to be had to the accompanying drawings in which—

Figure 1 is a plan of a portion of a thread-guide support constructed in accordance with this invention; Fig. 2 is a sectional view of the same on the line 2—2 of Fig. 1; and Fig. 3 is a front elevation thereof.

In the form shown in the drawings a cylindrical rod or bar 10 is provided, preferably secured to a roller beam of any ordinary construction (not shown). On this bar are mounted transverse screws or other supporting members 11 at regular intervals. On these screws is mounted a second cylindrical fixed rod 12, spaced from the first rod by bushings 13 on the screws. This second rod constitutes bearings for hubs 14 for the thread-guide holders. These hubs are shown in the form of hollow cylindrical metallic pieces, each of which is cut out at one end, as at 15, so as to provide stops 16 at the ends of the cut out portion. These stops are adapted to engage the bushings 13 at the two limits of motion of the hub so as to fix the upper and lower position thereof. In this way the bushings constitute limiting stops. The bushings are also cut out at 17 to permit the hubs to be set up close to the screws so that the hubs may abut against each other at their ends and form a substantially continuous surface.

The hubs are designed to support the

thread-guide holders proper which comprises sheet metal plates 20 shown in the present instance as having integral flanges 21 screwed to the hub. These plates extend forward horizontally when the hub is in its lower extreme position. Each of these plates is provided with a surrounding downwardly projecting flange 22 to prevent the settling of lint thereunder. In this flange is a notch 23 at the front. Below each plate 20 is a second plate 24 having a flange by which it is screwed to the hub. This plate is provided at its end with an upward projection 25 and a downwardly extending loop 26, both integral with the plate. This second plate is so located as to bring the projection 25 substantially into contact with the bottom of the plate 20.

The pig-tail or thread-guide 27 is shown as of an ordinary construction at its outer end, but as having a reversely bent inner end 28. It is mounted in such position that the shank extends through the notch 23 and through the loop 26, and the reversely bent end extends around back of the projection 25. The natural resiliency of the plates will hold the thread-guide in position if desired, but it is preferred to pass a fastening means through the loop. This is shown in the form of a bolt or screw 29, fastened up so as to bring the outer leg of the loop firmly against the shank of the pig-tail so that the pig-tail is securely clamped to the lower plate. It will be seen that the pig-tail can be moved out and in and adjusted to any degree of fineness.

While I have illustrated and described a preferred embodiment of the invention, I am aware that many modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore I do not wish to be limited to all the details of construction shown and described, but

What I do claim is:—

1. In a thread-guide support for spinning machines, the combination of two parallel rods, transverse screws for securing said rods together, a thread-guide holder pivoted on one of said rods, and bushings mounted on said screws between the rods and having a portion cut out to receive the thread-guide holder.

2. In a thread-guide support for spinning machines, the combination of a cylindrical

rod, a series of transverse screws for supporting the rod, means for supporting the screws, a hub rotatably mounted on said rod, and thread-guide holders projecting from said hub and adapted to engage said screws, whereby its rotation in both directions is limited.

3. In a device of the class described, the combination of a cylindrical bearing rod, a hub rotatably mounted thereon, a metallic thread-guide holder extending from the hub and having means for securing a pig-tail thereon, and means supported by the hub for clamping the pig-tail to the underside of said thread-guide holder.

4. As an article of manufacture, a thread-guide holder comprising a cylindrical hub, a metallic plate extending therefrom and having a downwardly extending flange all around provided with a notch in the forward end thereof, and a second plate extending from the hub under the first named plate and adapted to clamp a pig-tail to the first named plate in position to extend out through the notch.

5. As an article of manufacture, a thread-guide holder comprising a plate and a second plate projecting under the first named plate having an integral upward projection and a downwardly extending loop thereon,

whereby the curved end of a pig-tail can be passed through said loop and around said projection and held against the first named plate.

6. As an article of manufacture, a thread-guide holder comprising a plate, a second plate projecting under the first named plate and having a projection and loop thereon, a pig-tail having a curved end passed through said loop and around said projection, and means for clamping the two parts of the loop toward each other so as to grip the pig-tail.

7. In a device of the character described, the combination of two plates located one above the other, a pig-tail placed between said plates, the lower plate having an upward projection and a parallel downwardly extending loop, a pig-tail having a shank extending through said loop and a reversely turned end extending around back of the projection, and means on the lower plate for clamping the pig-tail thereto.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing witnesses.

WILLIAM FORGET.

Witnesses:

A. E. FAY,

C. FORREST WESSON.