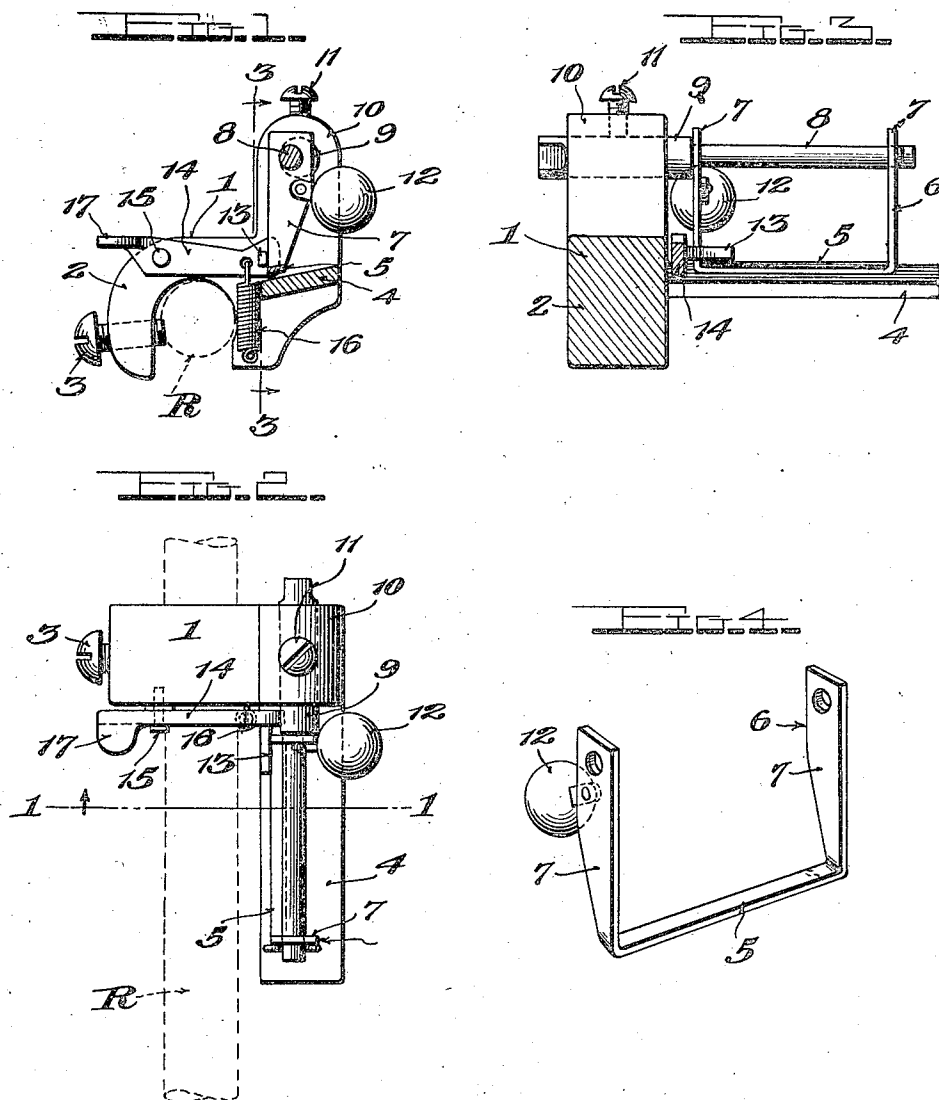


F. JARRY.
SLUB CATCHER.
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1,422,271.

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UNITED STATES PATENT OFFICE.

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SLUB CATCHER.

1,422,271.

Specification of Letters Patent.

Patented July 11, 1922.

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To all whom it may concern:

Be it known that I, FREDERICK JARRY, a citizen of the United States, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Slub Catchers, of which the following is a specification.

This invention relates to certain new and useful improvements in slub catchers and the primary object thereof is to provide a device of this character which is small and compact and capable of being easily and quickly applied to a spooling machine or the like and which has means of simple construction enabling easy and quick operation, for adjusting the device for use with threads of varying gage or diameter.

A further object of the invention is to provide a slub catcher which can be easily and quickly operated to allow the operator to release the slub so as to piece up the yarn.

The invention further aims to generally improve, simplify and lessen the cost of production of devices of this type and otherwise has objects which will be later set forth and manifested in the course of the following description.

In the drawings:

Figure 1 is a section taken on line 1—1 of Figure 2;

Figure 2 is a top plan view of the invention;

Figure 3 is a section taken on line 3—3 of Figure 1, and

Figure 4 is a detail perspective view of the swinging frame.

In proceeding in accordance with the present invention, a stationary frame 1 is employed having an inverted U-shaped attaching part 2 equipped with a screw 3, by means of which the device may be easily and quickly attached to a longitudinal rod R of a spooling or other machine. The frame is provided with a table 4 that has an inclined upper thread or yarn engaging face which cooperates with a correspondingly inclined bottom bar 5 of a U-frame 6, between which bar and the upper face of the table 4, the yarn or thread passes. The upper ends of the vertical arms 7 of the frame 6 are apertured to receive a shaft 8 so as to thereby afford a swinging or pivotal support for the frame 6. The shaft 8 is eccentric to an enlarged end 9 thereof, the latter end being

turnably received in a bearing provided therefor in the upright 10 of the stationary frame 1, being held in adjusted position by means of a screw 11. A weight 12 is attached to one of the vertical arms of the frame 6 so as to normally hold the arm in engagement with a stop 13 on a lever 14. The lever 14 is pivoted to the frame 1 at 15 and is tensioned by a coil spring 16 which normally causes the forward end of the lever to be held engaged with the upper face of the table 4. The rear end of the lever is provided with a finger engaging member 17.

From the foregoing it will be seen that the yarn passes between the table and the bottom bar of the swinging frame and if possessed of a slub the latter will be caught and held between the table and bar until removed by the operator. To adjust the device according to the size or gage of the yarn to be spooled, the screw 11 is turned so as to release the enlarged end 9 of the shaft 8, whereupon the shaft is turned, and due to its eccentric relation to the end 9, turning of the shaft will cause same to vary the space between the bottom bar of the frame 6 and the table 4 and following the desired adjustment of such space, the screw 11 is tightened to hold the shaft rigid. The inclination of the table is such so that the high side thereof engages and arrests outward movement of the swinging frame 6, inward movement thereof being limited by engagement of the frame with the stop 13 of lever 14. When the operator desires to release the yarn in removing a slub, he presses down on the finger piece 17, thereby raising stop 13 so as to permit increased swinging of the frame 6 and thereby easy and convenient removal of the slub.

What it claimed is:

1. In a slub catcher, a main frame formed for clamping onto a spooling machine and having a table provided with an inclined upper face, a shaft having an enlarged end eccentrically related to the said shaft and having said end rotatably received in a bearing provided therefor in the frame, a screw for holding said shaft end against turning, a weighted U-shaped frame swingingly mounted on the shaft and having its bottom bar arranged to cooperate with the table upper face and to engage the high side of the latter to limit swinging of the U-frame in one direction, and a spring ten-

sioned lever on the main frame having a stop to engage the U-frame to limit swinging of the latter in the opposite direction.

2. In a slub catcher, a frame having a face inclined to the horizontal, a swinging frame cooperating with said face to define a thread passage therebetween, and engageable with the high side of the inclined face to limit swinging of the frame in one direction, means to adjust the frame relative to the table, and a pivoted tensioned lever engaging the swinging frame to limit swinging in the opposite direction and being movable to allow the frame to be swung to release a caught slub.

3. In a slub catcher, a frame having a thread engaging face, a swinging member cooperating with said face to form a thread passage in conjunction therewith, said face and member having parts which engage to limit swinging of the member in one direction, and a pivoted vertically movable tensioned device having a part which engages said face of the frame to limit downward movement of the device and further having a part engaging the member to limit swinging of the member in the opposite direction, said latter part upon upward movement of the device relative to the frame face allowing the member to be moved to release a caught slub.

4. In a slub catcher, a member having a thread engaging part, a rod having an eccentric part, means to turnably support the rod above said part, a member pivoted on the rod and having a thread engaging part

which cooperates with the first named thread engaging part, means to limit swinging of the pivoted member away from the first named thread engaging part, and means to allow of instantaneous release of said limiting means.

5. In a slub catcher, a frame having a thread engaging part, a shaft having an eccentric part rotatable in the frame above the thread engaging part, means for holding the shaft in adjusted position, a substantially U-shaped frame swingingly mounted on the shaft and having its bottom formed with a thread engaging part, means to limit swinging of the frame in the direction of movement of the thread, and instantaneously releasable means to limit swinging of the U-shaped frame in the opposite direction.

6. In a slub catcher, a frame having a thread engaging part, a swinging member having a thread engaging part, said parts being formed to engage to limit swinging of the member in one direction, a substantially horizontal tensioned lever pivoted to the frame and having one end engaging the frame thread engaging part to limit downward movement of the lever, and means on the lever normally engaging the member to limit swinging thereof in the opposite direction and upon upward movement to allow of swinging of the member away from the frame thread engaging part to release a caught slub.

In testimony whereof I affix my signature.

FREDERICK JARRY.