No. 816,031. PATENTED MAR. 27, 1906.

R. OBERNESSER.

CURVED FLY REMOVER FOR SPINNING FRAMES.

APPLICATION FILED DEC. 30, 1903.

Fig. 1.

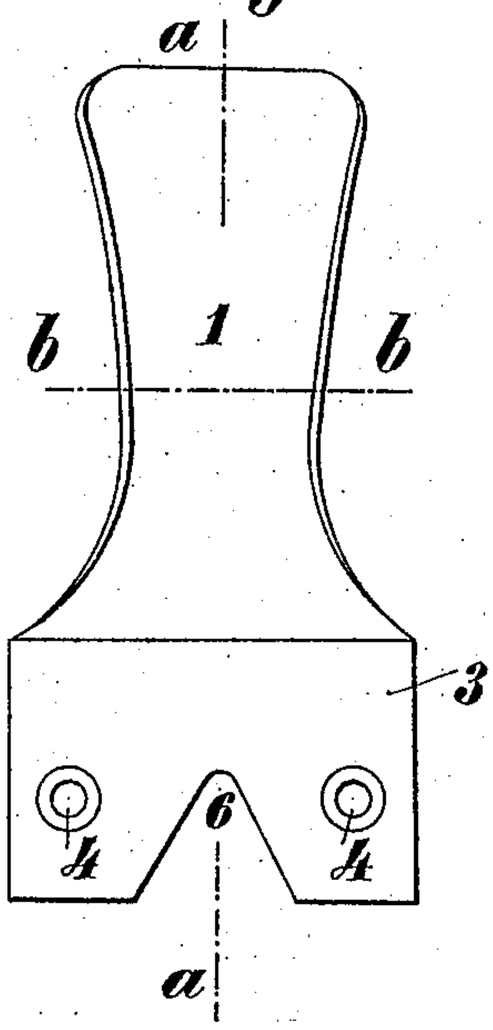
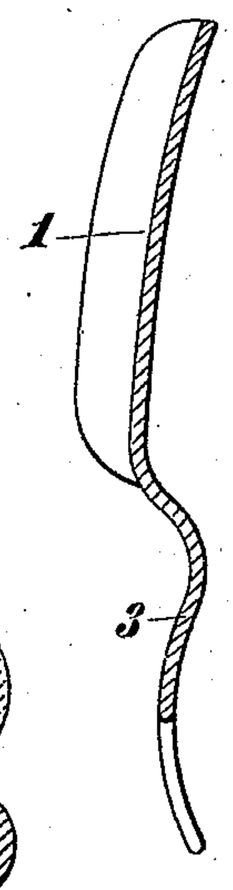


Fig. 2.



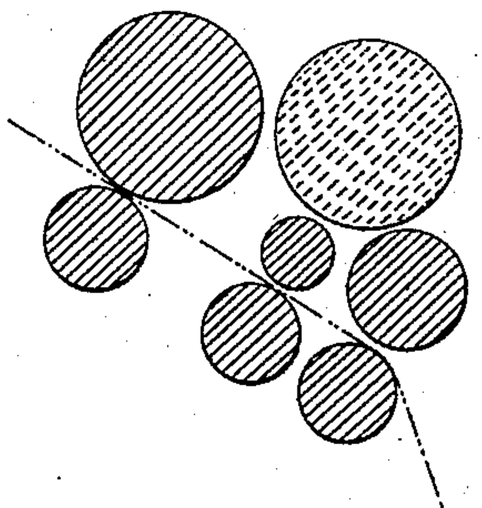


Fig. 4.

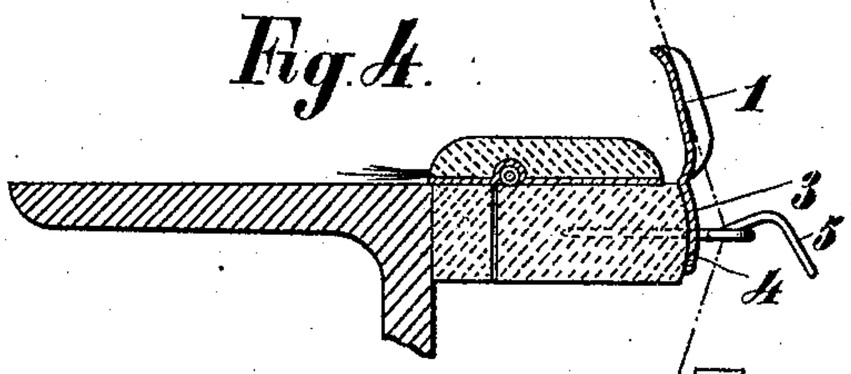
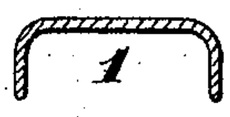
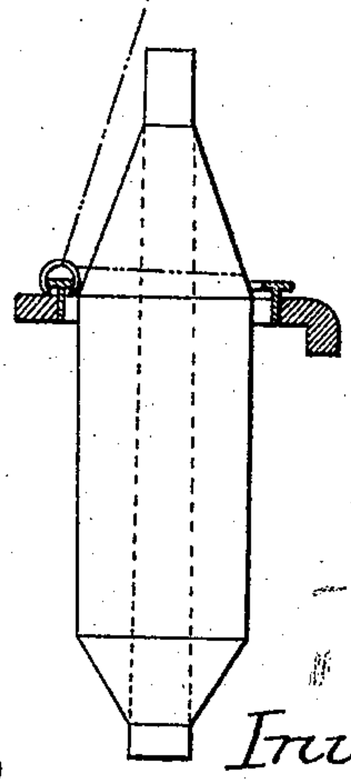


Fig. 3.





Witnesses:
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by Wm. G. Rosenbaum Atty.

UNITED STATES PATENT OFFICE.

ROBERT OBERNESSER, OF PARIS, FRANCE.

CURVED FLY-REMOVER FOR SPINNING-FRAMES.

No. 816,031. Specification of Letters Patent. Patented March 27, 1906.

Application filed December 30, 1903. Serial No. 187,224.

To all whom it may concern:

Be it known that I, ROBERT OBERNESSER, spinning-mill manager, a citizen of the French Republic, residing at Paris, in the Department of the Seine, France, have invented new and useful Improvements in Curved Fly-Removers for Spinning-Frames, of which the following is a specification.

This invention consists of a small apparatus made of iron or other wrought-metal plate, which is fixed on the thread-board of a spinning-frame to keep the thread in place and prevent interference on its way from the delivery-rolls to the cop or flier. It is shown in the accompanying drawings, in which—

Figure 1 is an elevation. Fig. 2 is a vertical section along the line *a a* of Fig. 1. Fig. 3 is a horizontal section following the line *b b*, Fig. 1. Fig. 4 is a representation of the complete apparatus fixed to the thread-board of a spinning-frame.

The apparatus or plate has a groove 1 at its upper part, as will be seen in Fig. 3, allowing the passage of the yarn 2. The lower part 3 has holes 4 formed in it for the purpose of attaching it to the board which supports the wire eye 5. A notch 6, in the form of an inverted **V**, is formed in the lower part of the apparatus in such a manner that the latter is supported on or engages with the stem of the wire eye 5 and is thus very rapidly and accurately put in the place it should occupy. The proper slope of the upper part is attained by a deep curve of the lower part, for it is necessary that the yarn should pass through the bottom of the groove throughout its length. The curvature gives a great firmness to all the apparatus. The anchoring end 3 of the device is in substantially the same plane as the upper guiding part, so that the device can be secured against the vertical edge of the board. In this way the top of the board is left unobstructed, so that it can be cleaned of the pieces of cotton or thread that usually collect upon it.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

In spinning-machines, a board and a wire thread-eye projecting from the vertical edge of said board, in combination with a thread-guide comprising a plate having an upper rectangularly-grooved portion, and a lower supporting portion, the latter portion having a **V**-shaped notch adapted to straddle the wire thread-eye, and perforations for screws adapted to secure it to the vertical edge of said board.

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

ROBERT OBERNESSER.

Witnesses:

H. C. COXE,

LUCIEN CRESPIN.