Feb. 8, 1927. 1,617,227

S. R. WIK

FLY CHASER

Filed June 5, 1925

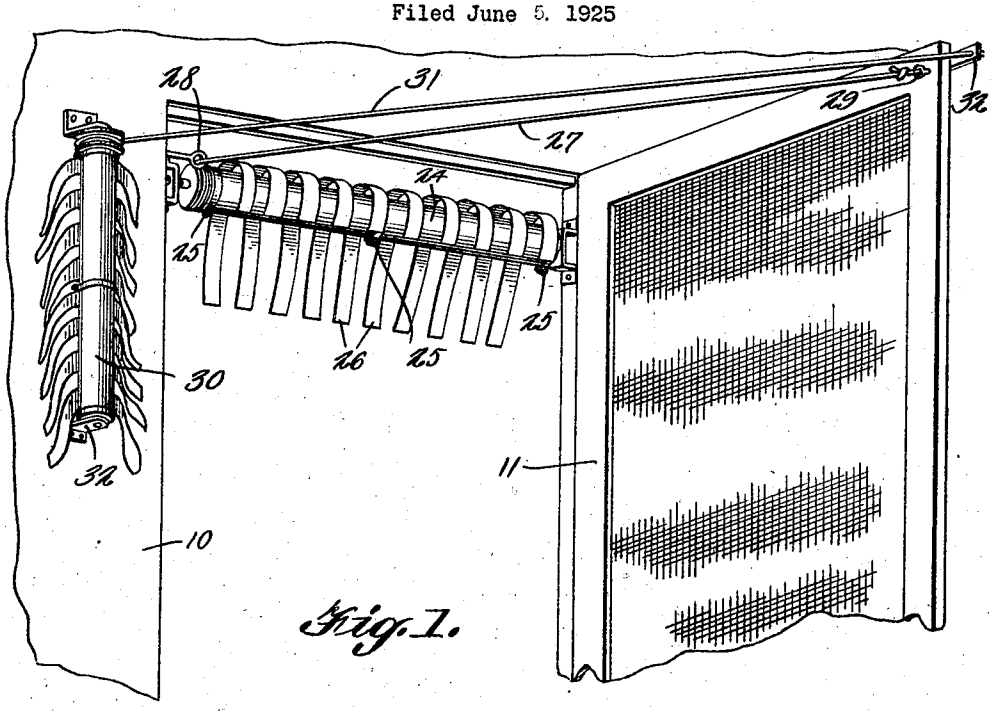


Fig. 1.

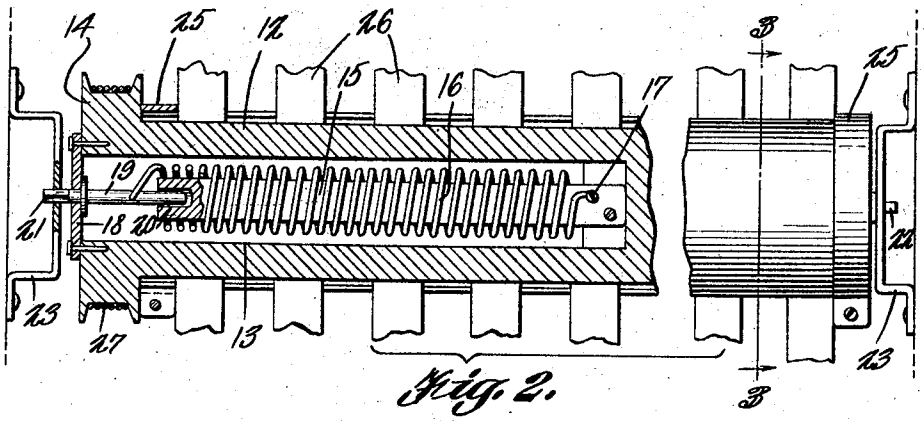


Fig. 2.

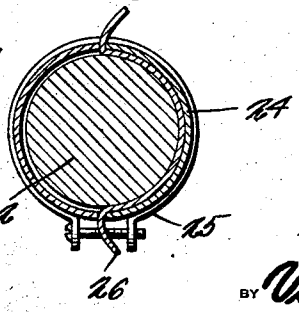


Fig. 3.

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WITNESS:

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Patented Feb. 8, 1927. 1,617,227

UNITED STATES PATENT OFFICE.

SEVER R. WIK, OF STETTLER, ALBERTA, CANADA.

FLY CHASER.

Application filed June 5, 1925. Serial No. 35,227.

This invention relates to improvements in fly chasers and contemplates the provision of a roller which is arranged between the upright of a door frame and which further includes a plurality of strips depending from diametrically opposite sides thereof and which when rotated will chase or frighten flies or other insects from the doorway when the door is open.

Another object of the invention is the provision of spring means included within the roller which will spring and cause the roller to rotate back to its normal position when the door is closed.

A further object of the invention is the provision of a pulley arranged upon one end of the roller and having a rope or the like wound thereon and having its opposite end secured to a portion of the door and which when opened will cause the rope to unwind itself upon the pulley in the process of rotating the roller and thrashing the resilient flaps arranged upon the roller which will frighten the flies or other insects from the doorway.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the appended claim.

In the drawings:—

Figure 1 is an elevation of a portion of a doorway and showing the manner in which the invention is applied thereto and the manner of operation thereof.

Figure 2 is a fragmentary longitudinal section of the roller means.

Figure 3 is a transverse section taken on line 3—3 of Figure 2.

Referring to the drawing in detail, wherein like characters of reference denote corresponding parts, the reference character 10 indicates a door frame and 11 the door. It it of course obvious as shown in this invention and owing to the purposes thereof that the door 11 is a screen door.

The invention residing in the provision of a roller 12 having a bore 13 extending an appreciable distance therein and which further includes a pulley wheel 14 upon one end thereof. Arranged in spaced relation within the bore 13 of the roller 12 is a rigid shaft 15 which has its inner end fixed to the lower portion of the roller 12. Encircling this rigid shaft 15 is a coiled spring 16 which has one end rigidly secured as at 17 to the inner end of the rigid shaft 15. A cover plate 18 is arranged or placed over end of the bore 13 and which has extending therethrough a shade roller trunnion 19 which has its inner end extending within a counter-sunk portion 20 provided in the outer end of the rigid shaft 15; this trunnion 19 includes a squared portion 21 upon the outer end thereof. Extending from the opposite ends of the roller 12 is a companion trunnion having a rounded end portion 22, these trunnions 19 and 22 are adapted to be received within the usual and ordinary type of shade bracket 23 which in this instance are secured to the inner sides of the door frame uprights as clearly illustrated in Figure 1 of the drawing. Arranged from end to end upon the roller 12 between the inner side of the pulley wheel 14 and the opposite end of the roller 12 is a pair of semicircular arcs 24 which have their adjacent edges arranged in spaced relation when so assembled upon the opposite sides of the roller 12. These arcs 24 are held upon the roller 12 by a pair of companion clamps 25. Lengths of pliable paper, oil cloth or the like as indicated at 26 are arranged upon one side of the roller 12 beneath the arcs 24 which have their ends extending between the meeting edges of the arcs 24 and extending therefrom an appreciable distance as clearly illustrated in Figure 1 of the drawings. Wrapped upon the pulley wheels 14 and having one end secured thereto is a length of cable or the like 27 which has its opposite end guided through a guide loop 28 secured to the inner side of the door frame 10 and thence has its end secured as at 29 to one side of the screen door 11 in order that the roller 12 will be operated through the opening of the door 11.

In case the roller 12 is not sufficient to frighten and so disturb the insects as may assemble around a doorway, I provide an auxiliary roller 30 which is arranged upon one side of the door frame 11 and which is arranged vertically therewith and which is of the usual and well known construction as in accordance with the roller 12 and has a cable 31 extending therefrom and secured as at 32 to a suitable portion of the door 11.

In the mode of operation of the present invention it is manifest that owing to the mountings and specific construction of these rollers 12 and 30 respectively that the same will be caused to simultaneously rotate upon

the opening and closing of the door 11, that is when the door 11 is open the cables 27 and 31 will be caused to unwind upon their respective pulley wheels and in so doing rotate the rollers 12 and 30 in one direction against the tension of the springs which are rigidly secured therein and upon releasing or shutting the door 11 it is noted and well appreciated that these rollers 12 and 30 will be caused to rotate to their own momentum through the unwindings of their fixed springs included within the respective rollers 12 and 30 and in so doing a similar operation is set forth when so closing the door 11.

The invention is susceptible of various changes in its form, proportions and minor details of construction, and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having thus described my invention what is claimed is:

In combination with a spring actuated roller, of a pair of semi-circular members carried by the roller, resilient strips extended between the meeting edges of the members from the roller, and clamping bands for the roller holding the members and strips against displacement.

In testimony whereof I affix my signature.

SEVER R. WIK.