

No. 658,278

Patented Sept. 18, 1900.

R. PEET.

FAN ATTACHMENT FOR DOORS.

(Application filed Dec. 21, 1899.)

(No Model.)

Fig 1

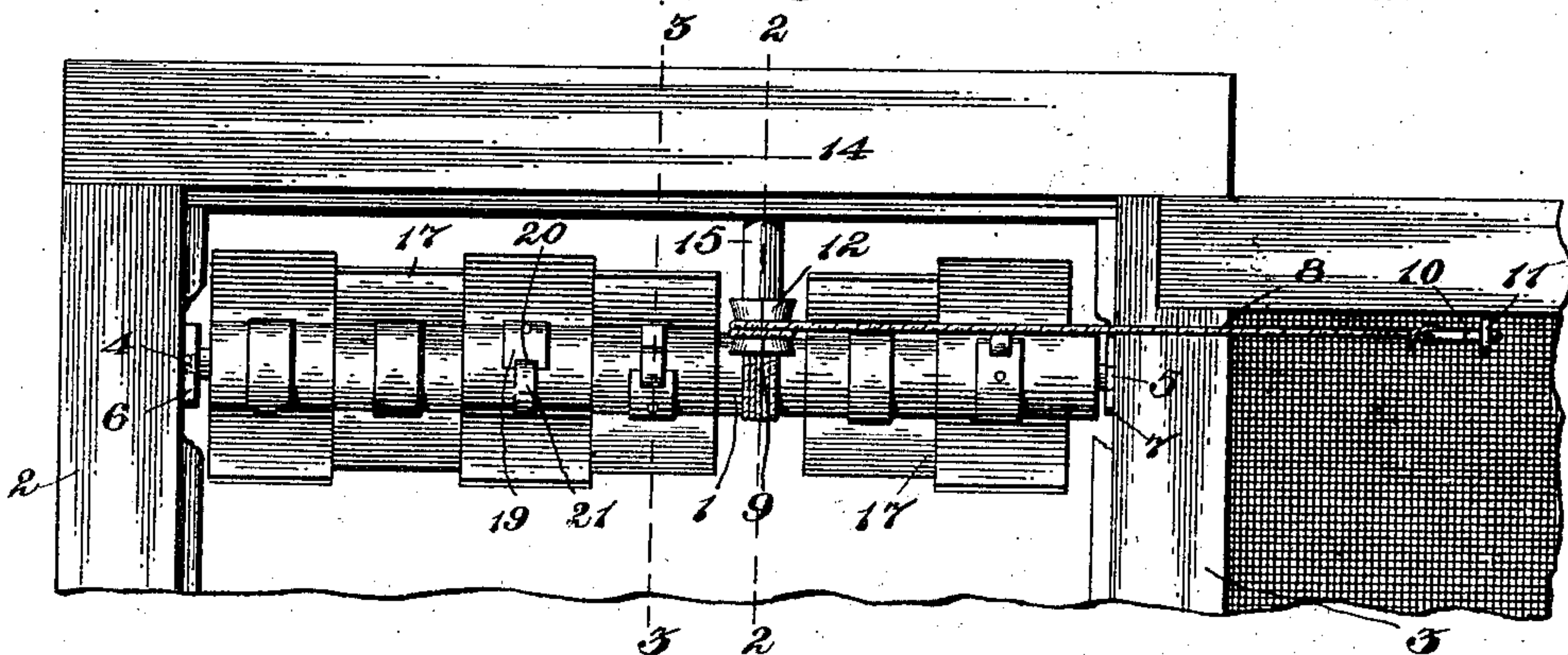


Fig 2

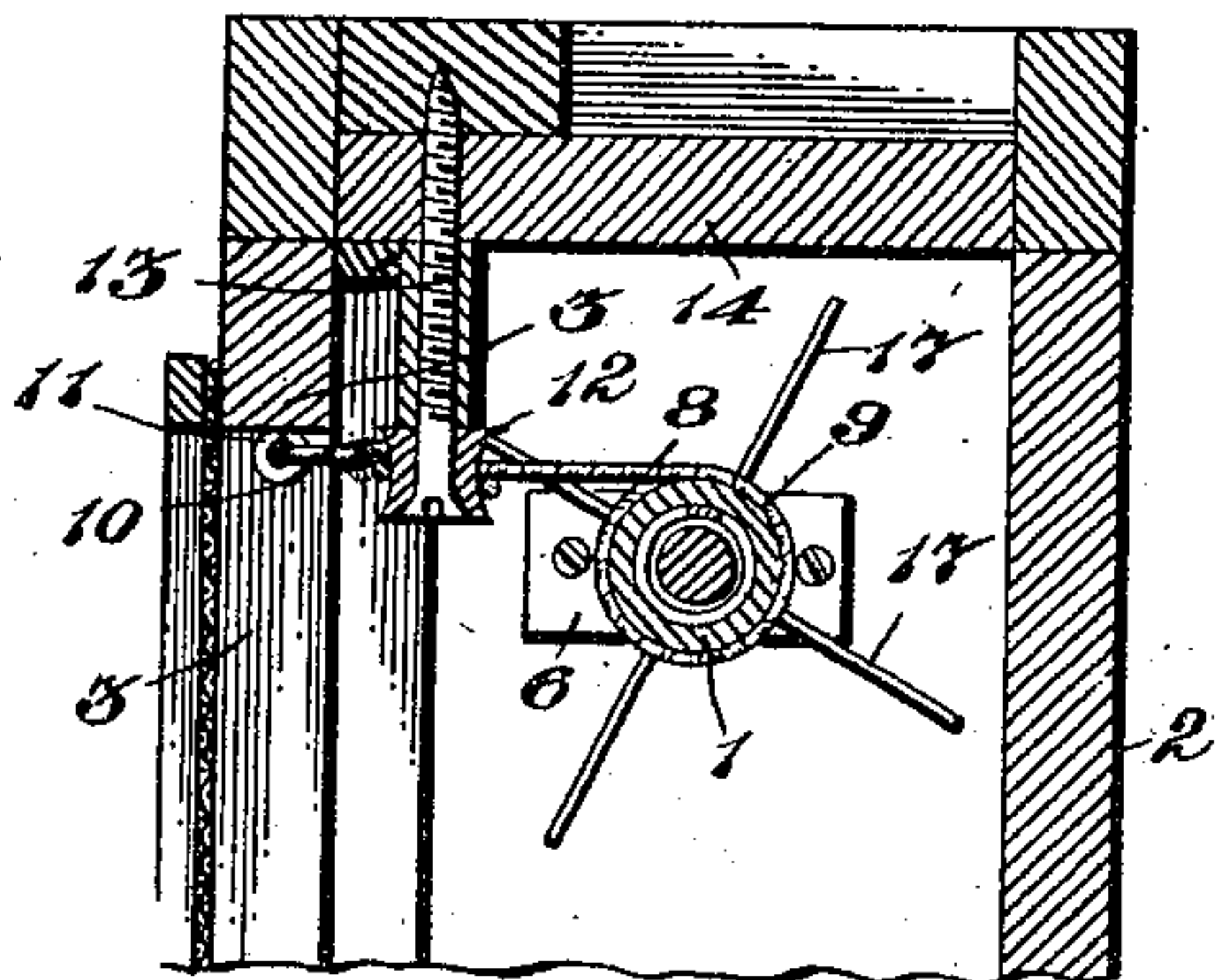


Fig 3

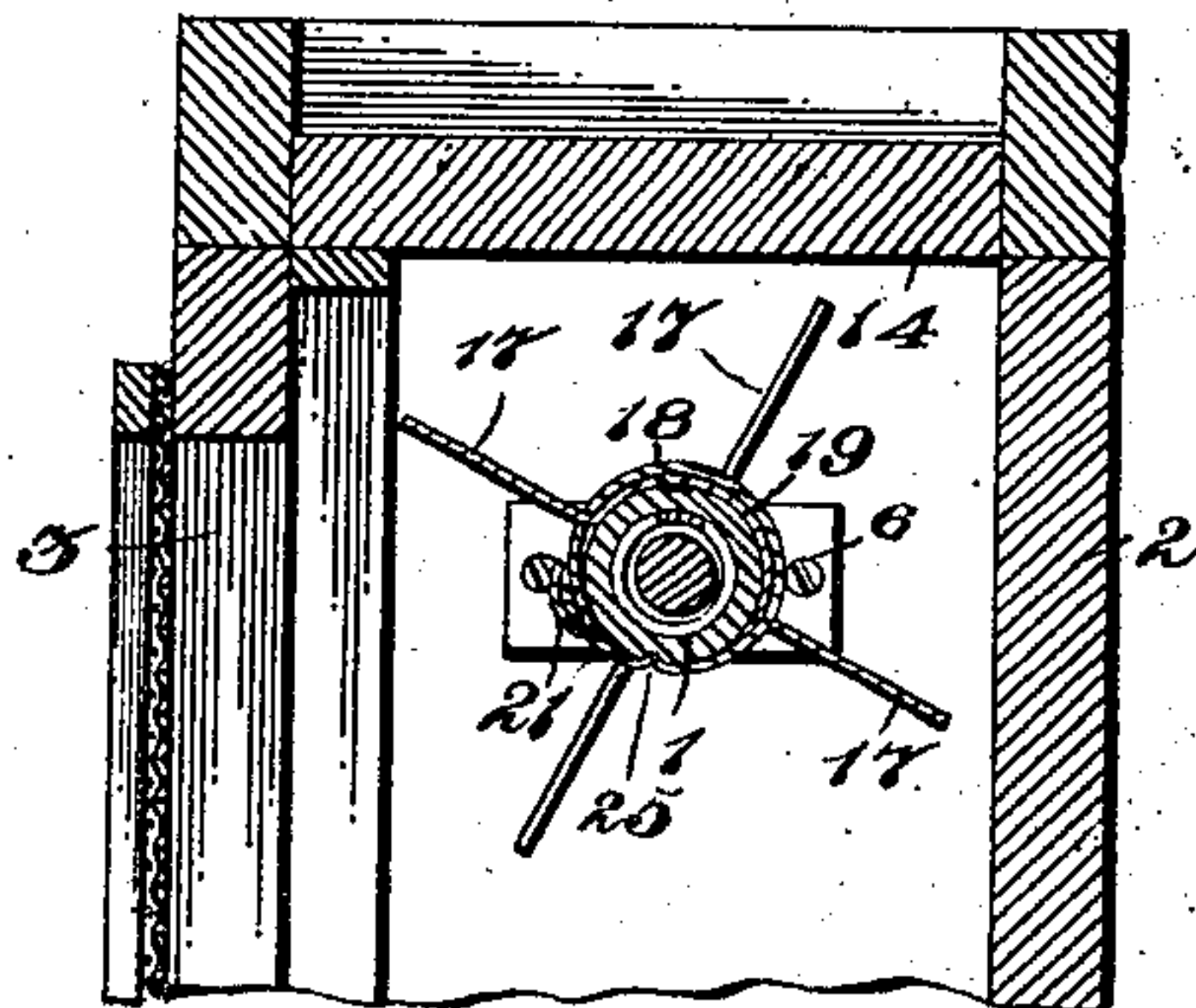


Fig 4

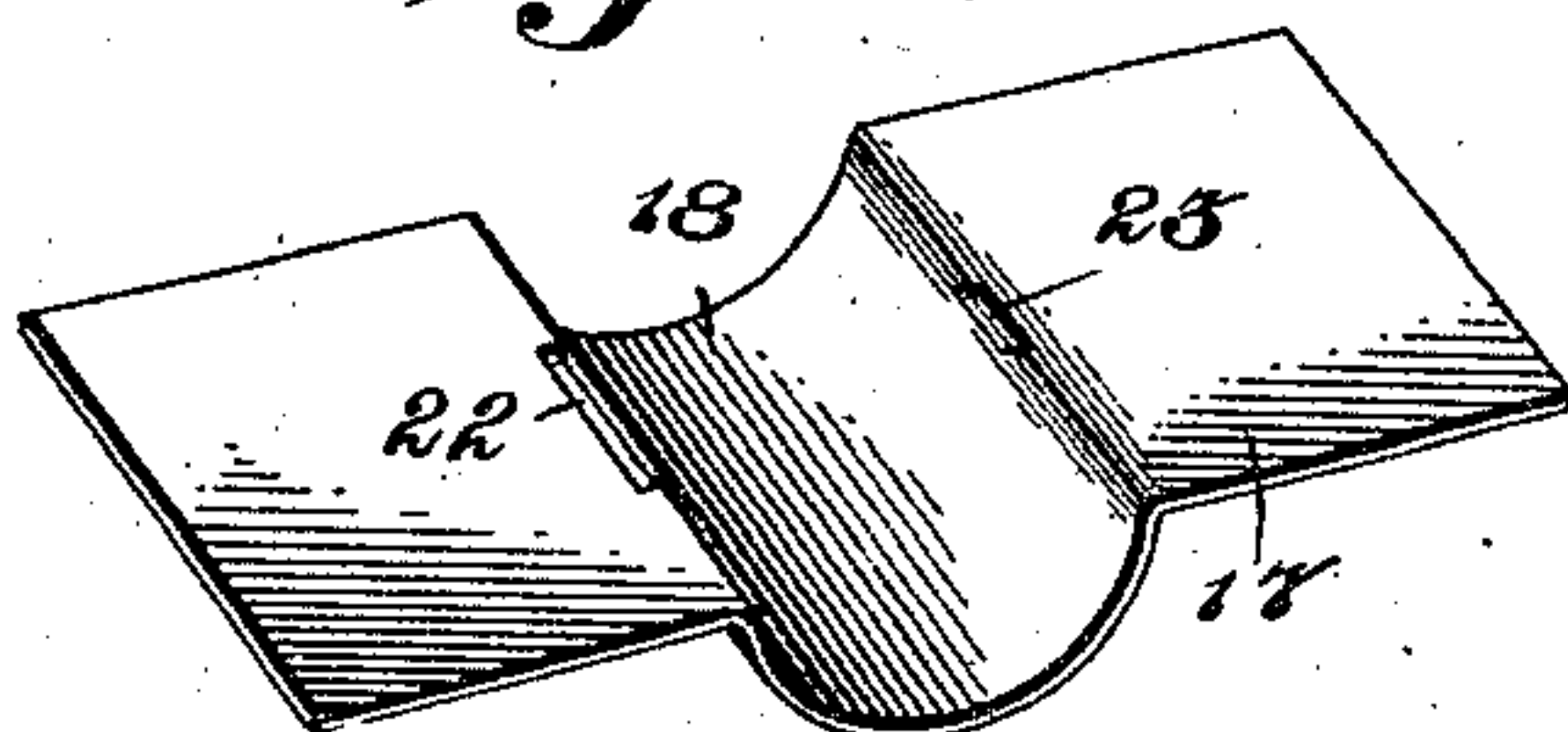
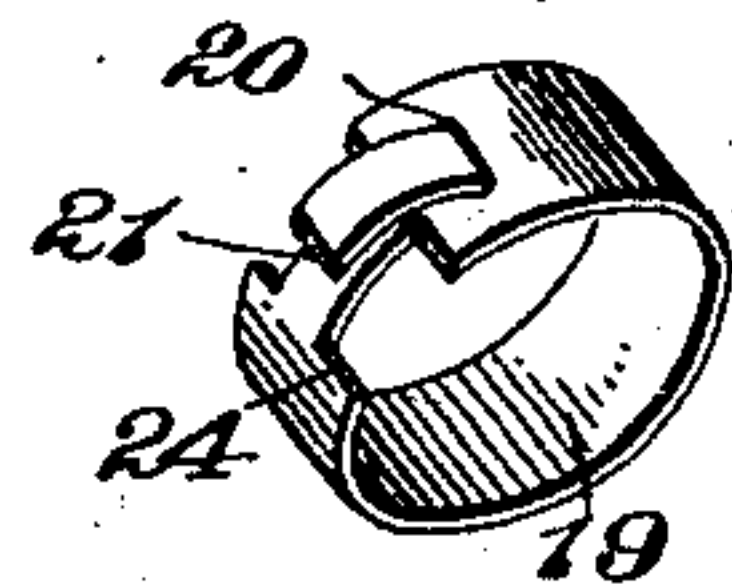


Fig 5



Witnesses

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# UNITED STATES PATENT OFFICE.

RUEY PEET, OF LA HARPE, KANSAS.

## FAN ATTACHMENT FOR DOORS.

SPECIFICATION forming part of Letters Patent No. 658,278, dated September 18, 1900.

Application filed December 21, 1898. Serial No. 741,117. (No model.)

*To all whom it may concern:*

Be it known that I, RUEY PEET, a citizen of the United States, residing at La Harpe, in the county of Allen and State of Kansas, have invented a new and useful Fan Attachment for Doors, of which the following is a specification.

The invention relates to improvements in fan attachments for doors.

One object of the present invention is to improve the construction of fan attachments for doors and to provide a simple, inexpensive, and efficient device designed to be arranged at the inner side of a screen-door and adapted to be operated by the opening of the same, whereby flies will be prevented from entering when the door is opened.

A further object of the invention is to improve the construction of the blades of the roller and to provide a simple, inexpensive, and efficient device whereby the said blades may be readily applied to and removed from the roller.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is an elevation of a portion of a door-frame and screen-door provided with a fan attachment constructed in accordance with this invention. Figs. 2 and 3 are vertical sectional views of the same on lines 2-2 and 3-3 of Fig. 1, the screen-door being closed. Fig. 4 is a detail perspective view showing one pair of the blades. Fig. 5 is a similar view of one of the clamping-bands.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a spring-actuated roller designed to be mounted within a door-frame at the top thereof between an ordinary door 2 and the screen-door 3 and constructed similar to an ordinary spring-actuated curtain-roller, being provided at its ends with journals 4 and 5, arranged in openings of plates 6 and 7 and connected, respectively, with the roller and with the spring, whereby when the roller is rotated in one direction by the means hereinafter described the spring will rotate

the said roller in the opposite direction. The opening of the plate 6 is designed to be rectangular, and the opening of the plate 7 is circular, similar to the ordinary curtain-brackets, and as this construction is well understood detailed description and illustration of the same are deemed unnecessary. The roller is rotated in one direction by a cord 8, having its inner end wound around the roller at 9, and its outer end is provided with a hook 10, which detachably engages an eye 11 of the screen-door. The intermediate portion of the cord or other flexible connection passes around a horizontal guide-pulley 12, mounted on a vertical spindle 13, which depends from the top of the door-frame 14, as clearly shown in Figs. 1 and 2 of the accompanying drawings, and which may consist of a screw or any other suitable device. The pulley is preferably grooved at its periphery to retain the cord in place, and it is spaced from the top of the door-frame by a sleeve 15, mounted on the spindle and interposed between the pulley and the top of the frame. It will be seen that when the screen-door is open the roller will be rotated in one direction by the cord, and the spring will rotate it in the opposite direction when the door closes. In the accompanying drawings the device is shown applied to a single door; but it will be readily apparent that it may be applied to double doors, in which case a roller will be arranged adjacent to each of the doors, the device being simply duplicated for double doors.

The spring-actuated roller carries a series of blades 17, arranged in pairs, the members of each pair being connected by an integral curved or semicylindrical portion 18; fitting the roller and secured detachably to the same by a clamping-band 19. The clamping-band 19, which embraces the roller and the exterior of the curved connecting portions of the blades, is provided at one end with a slot 20, and it has a tongue 21 extending from the other end and passing through the slot and adapted to be bent backward on itself, as illustrated in Fig. 5 of the accompanying drawings, whereby the blades are securely fastened to the spring-actuated roller. Each pair of blades is provided with opposite slots 22 and 23, located at their inner ends adjacent to the curved connecting portion 18 and



receiving the body portion of the clamping-band and the reduced tongue 21 thereof. The slot 22, which is wider than the slot 23, receives the main or body portion of the band, and the smaller slot 23 receives the tongue. The shoulders 24, formed by the reduction of the tongue, abut against the exterior of the adjacent blade and prevent the band from slipping through the slot 23, and the clamping-band is provided with an exterior indentation 25, which embeds the metal in the wood, as clearly shown in Fig. 3. This construction enables the blades to be readily mounted on an ordinary spring-actuated roller in various positions, so that they will extend radially therefrom at different points. When the spring-actuated roller is rotated by the opening of the screen-door, the blades create a current of air of sufficient strength to prevent the entrance of flies and other insects.

It will be seen that the fan attachment is exceedingly simple and inexpensive in construction, that it is adapted to be readily applied to a door, and that the spring-actuated roller and the blades will be rapidly rotated when the door is opened and closed. It will also be apparent that the blades, which are easily and cheaply constructed of a single piece of sheet metal, are adapted to be readily clamped on the roller in any desired position.

What is claimed is—

1. In a device of the class described, a roller provided with blades arranged in pairs, the members of each pair being connected by an intermediate portion arranged on the roller,

said blades being provided at the ends of the intermediate connecting portion with slots, combined with clamping-bands passing through the slots and arranged on the roller and on the exterior of the said intermediate portions, substantially as described.

2. In a device of the class described, a roller provided with blades arranged in pairs, the members of each pair being connected by an intermediate portion conforming to the configuration of the roller, said blades being provided at the ends of the connecting portions with slots, one of the slots being shorter than the other, combined with the clamping-bands passing around the roller and the exterior of the connecting portions of the blades, and provided with tongues passing through the smaller slots and interlocked with the main or body portion of the bands, substantially as described.

3. In a device of the class described, the combination of a pair of blades provided with an intermediate connecting portion and having slots of different lengths at their inner ends, and a clamping-band provided at one end with a reduced tongue and having a slot at its other end to receive the tongue, the tongue and the slotted end of the band being passed through the slots, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

RUEY PEET.

Witnesses:

W. J. HACKNEY,  
JOHN J. OHLFEST.