

No. 829,587.

PATENTED AUG. 28, 1906.

W. H. JONES.
TACK PUSHER.

APPLICATION FILED DEC. 3, 1904.

Fig. 1.

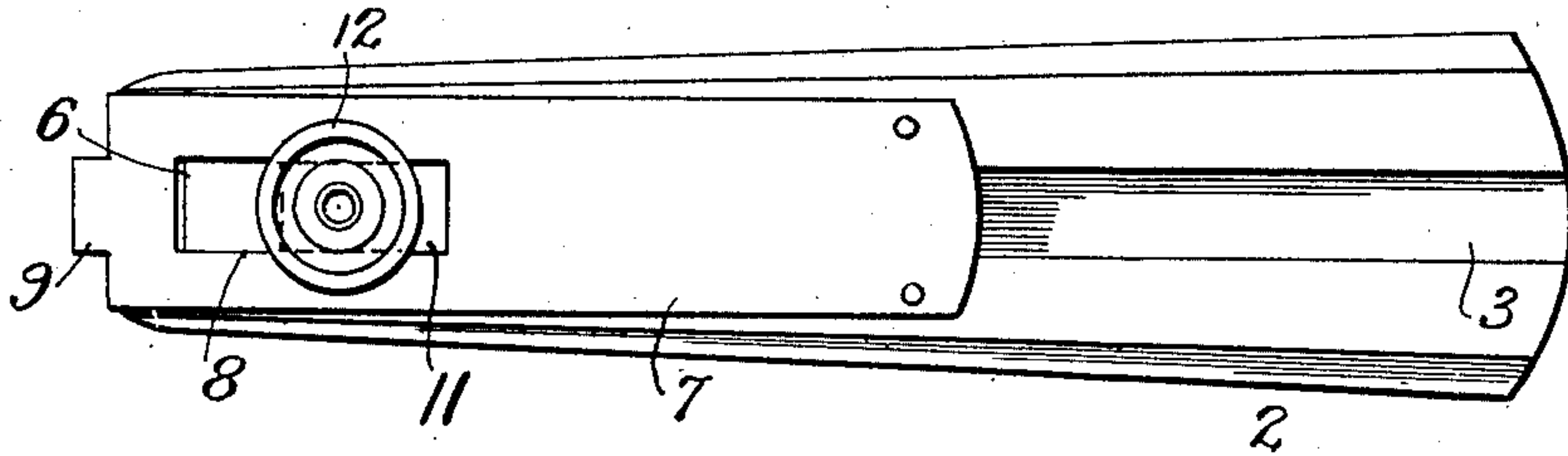


Fig. 2.

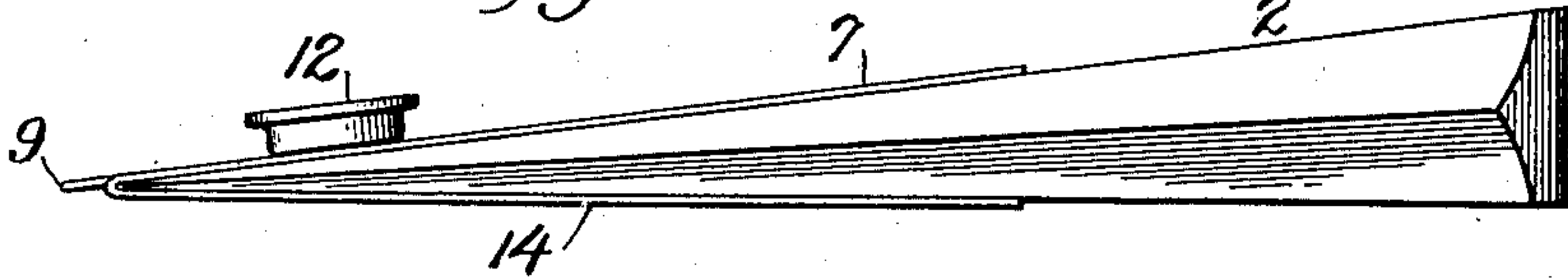


Fig. 3.

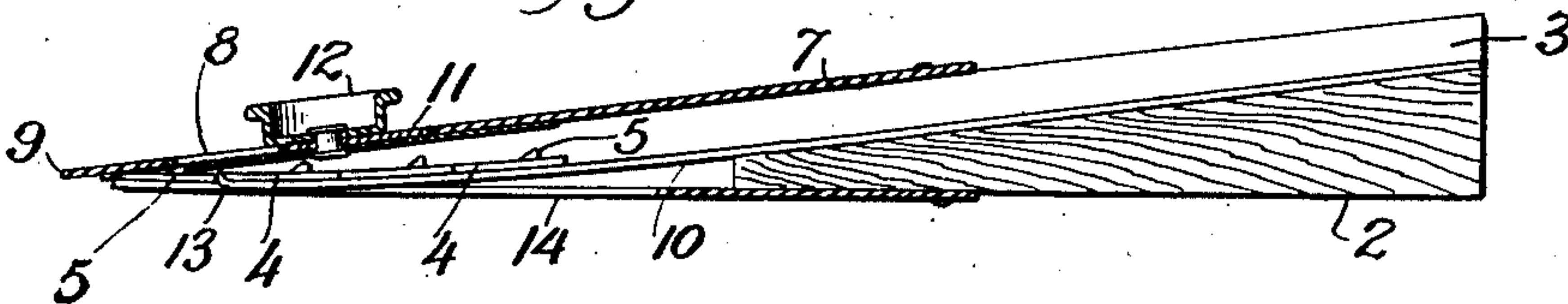
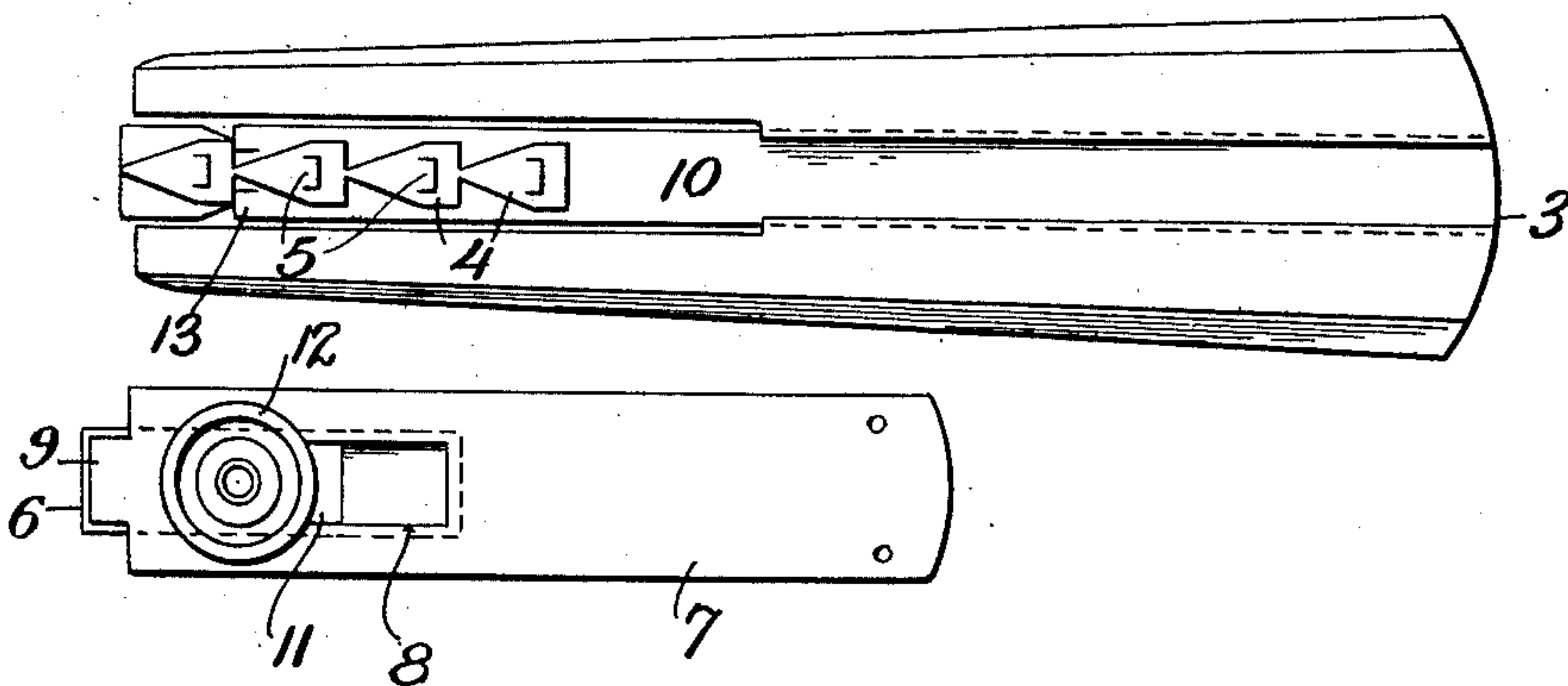


Fig. 4.



Witnesses:

James F. Duhamel
Person L. Wells

Walter H. Jones,
Inventor.

By his Attorney, Cha. H. Davids.

UNITED STATES PATENT OFFICE.

WALTER H. JONES, OF BROOKLYN, NEW YORK.

TACK-PUSHER.

No. 829,587.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed December 3, 1904. Serial No. 235,348.

To all whom it may concern:

Be it known that I, WALTER H. JONES, a citizen of the United States, and a resident of the borough of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Tack-Pushers, of which the following is a specification.

This invention is closely related to that disclosed in my pending application, Serial No. 178,733, filed October 27, 1903, and its subject-matter, like that of said application, pertains to an implement in the nature of a tack-pusher for feeding step by step a strip or series of connected glaziers' points or tacks to thereby bring the tacks in succession into a position in which the terminal tack may be readily inserted into place. In my pending application the implement is shown provided with a slot through which an inserted strip is fed such a distance at each step that the lug or projection on the terminal tack of the series is positioned opposite an abutment, whereupon such tack by the pressure of the hand on the implement may be forced into place. Afterward by bending or twisting the implement slightly the inserted tack may be broken loose from its fellow. A second feed movement then places the next tack in proper position. The feed movements of the feeder or placer (conveniently in the nature of a slide) are accomplished automatically in the implement of that application through the instrumentality of a spring which returns the slide (engaged with the lug on one of the tacks) after the same has been thrust backward by the pressure used in inserting the last tack. The feed movements in the present invention, however, involve the manipulation of the feeder in both directions by the thumb or finger of the hand grasping the implement—that is to say, in the present case the feeder is given a full reciprocation by hand in order to project the terminal tack into position for use.

Another feature of the present implement consists in a stop or preventer for precluding the backward movement of the tack-strip during the corresponding movement of the feeder.

In the drawings accompanying the present specification, Figure 1 is a front elevation of a tack-pusher embodying the present improvements. Fig. 2 is an edge elevation thereof. Fig. 3 is a longitudinal section of the pusher. Fig. 4 is a view illustrating the stock or body of the pusher and the metal

plate carrying the placer or feeder, the two being separated from each other.

Similar characters of reference designate corresponding parts in all figures.

The stock or body of the implement, conveniently of wood, is preferably tapering or wedge-shaped in form to facilitate the operation of inserting the projecting tack close to the side of the pane of glass, &c., and the same is in size and form made to be conveniently grasped by the hand.

In the drawings the stock or body is designated by 2 and is provided with a slot or way 3 for the strip of connected tacks or points. These latter are integrally connected with each other and may each be of substantially the ordinary form—that is, triangular in outline, the point of one tack being connected to the base of the tack in front. Each strip is thus made up of a number of tacks 4, and from each of the latter extends a lug or projection 5, struck up from the metal of the tack.

A feeder or placer for feeding the strip lengthwise through the slot in the stock or body may conveniently be in the form of a slide 6 reciprocatory longitudinally of the slot. The feeder is here mounted on a plate 7, secured to the body of the implement in a position such that when drawn backward toward the rear of the elongated opening 8 in the plate the end of the feed-slide may engage with a lug on one of the tacks of the strip. Likewise when the slide is then moved forward toward the front end of the opening 8 the terminal tack of the strip will be so positioned that its lug is adapted to engage with an abutment 9, projecting from the plate. In order to insure the engagement of the lug of this tack with the abutment, a strip-finger 10, one of whose ends is secured to the body of the implement, is adapted to bear at its free end against the rear side of the terminal tack, thus urging the latter laterally and placing it with its lug across the abutment. The terminal tack is now ready to be pushed into place, whereupon by twisting or bending the implement the inserted tack may be freed or readily broken away from the strip. The limit of travel of the feed-slide is here determined by the length of a guide-piece 11, slidably mounted between the walls of the elongated opening 8 in the plate. From this guide-piece projects an overhanging finger or thumb piece, such as 12.

For the purpose of precluding the back-

ward movement of the strip, which might occur by reason of the friction of the backwardly-moving feed-slide, I have provided an automatically-operative stop or preventer, 5 in this instance in the nature of a spring-finger 13, which engages with the lug on one of the tacks of the strip when the latter has been fed forward by the reciprocation of the feed-slide.

10 In order to give a finish to the implement, the feed-slide-carrying plate may be bent around at the end of the stock or body and flattened down upon the latter and there secured. (See 14.) Such a device provides, it 15 is evident, an implement particularly designed to readily facilitate the rapid insertion of glaziers' points or tacks supplied to it in strip or connected form, it being possible to utilize and insert the last tack or point of the 20 strip with as much facility as any of the others comprised therein.

Having described my invention, I claim—

1. The combination of a slotted stock or body, a plate secured thereto adjacent to the 25 end of the stock, a manually-operatable feed-slide mounted on said plate and adapted to

engage with a tack in the slot of the body, an abutment on said plate, a spring for insuring the engagement of the terminal tack with the abutment, and a stop for precluding the 30 backward movement of the tacks in the slot of the body.

2. The combination of a slotted stock or body having a tapering or wedge-shaped cross-section, a plate bent over the thinner 35 end of the body and secured on opposite sides of the latter, a manually-operatable feed-slide mounted on said plate and adapted to engage with a tack in the slot of the body, an abutment on said plate, a spring for insuring 40 the engagement of the terminal tack with the abutment, and a stop for precluding the backward movement of the tacks in the slot of the body.

In testimony whereof I have signed my 45 name to this application in the presence of two subscribing witnesses.

WALTER H. JONES.

Witnesses:

LILLIAN PERRY,
CHAS. H. DAVIDS.