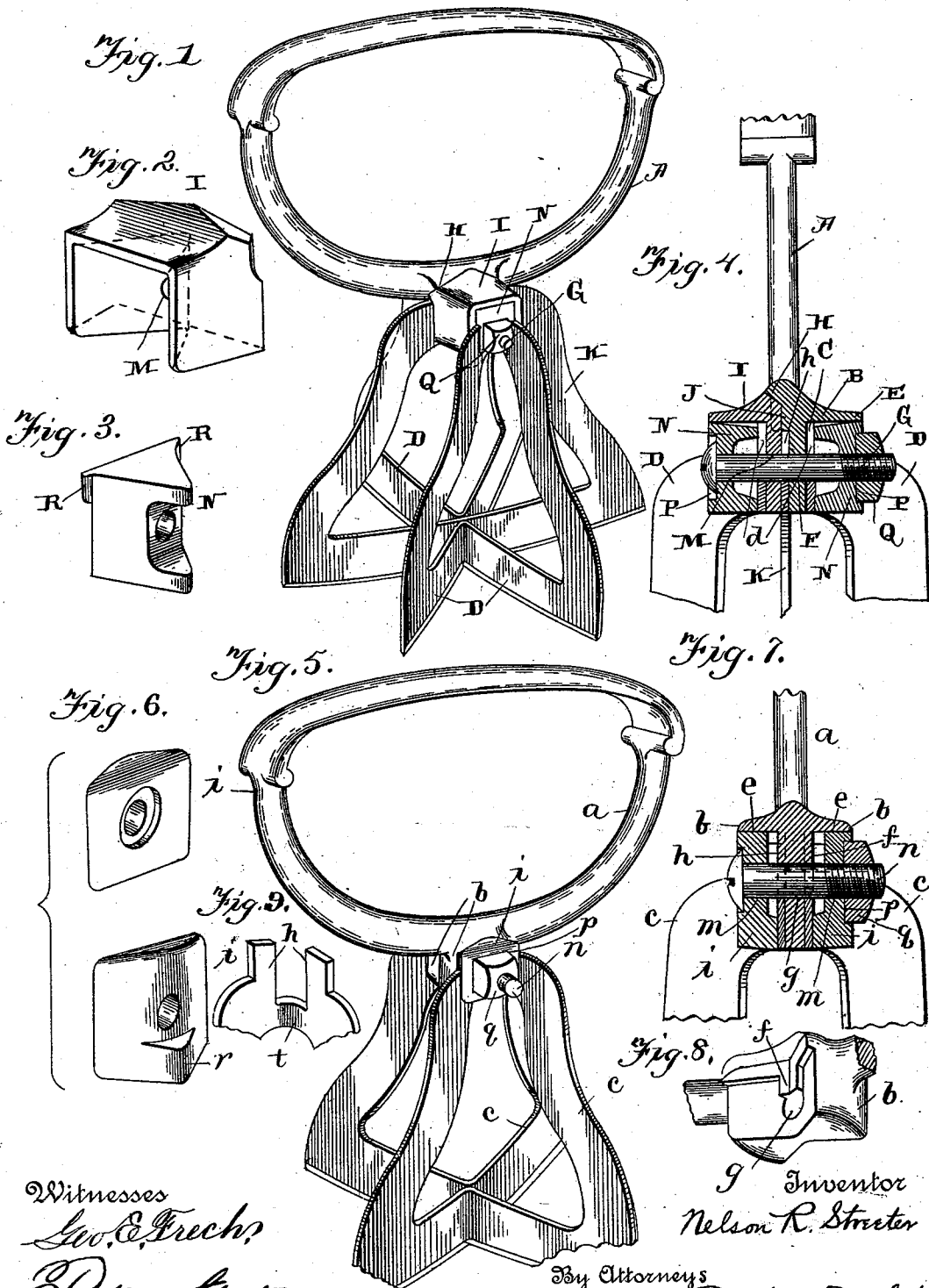


(No Model.)

N. R. STREETER.
MINCING KNIFE.

No. 534,728.

Patented Feb. 26, 1895.



Witnesses
Geo. E. Trech
Peter Gutmann

g Inventor
Nelson R. Streeter

By Attorneys
Pattison & Mead

UNITED STATES PATENT OFFICE.

NELSON R. STREETER, OF GROTON, NEW YORK.

MINCING-KNIFE.

SPECIFICATION forming part of Letters Patent No. 534,728, dated February 26, 1895.

Application filed December 7, 1893. Serial No. 493,000. (No model.)

To all whom it may concern:

Be it known that I, NELSON R. STREETER, of Groton, in the county of Tompkins and State of New York, have invented certain new and useful Improvements in Mincing-Knives; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in mincing knives, and it consists in the particular construction fully described hereinafter and particularly referred to in the claims.

The object of my invention is to provide a handle having at its lower end angular recesses to receive the angular upper ends of the bent blades which have openings for the passage of a clamping bolt, which passes transversely through the handle also, for securing the blades in position.

In the accompanying drawings:—Figure 1 is a perspective view of a mincing knife embodying my invention. Figs. 2 and 3 are detached views of the clamping blocks used in connection therewith. Fig. 4 is a sectional view of the clamping portion of Fig. 1, taken longitudinally of the clamping bolt. Fig. 5 is a perspective view of a modification. Fig. 6 is a detached view of the clamping blocks used in Fig. 5. Fig. 7 is a sectional view of the clamping portion of Fig. 5, taken longitudinally of the clamping bolt. Fig. 8 is a detached view of the extension *b*, Figs. 5 and 7. Fig. 9 is a detail partial view of one of the bent blades.

A indicates the handle which is provided at its lower end with a laterally extending portion or projection B, which is provided at its outer side with an angular cavity C, corresponding in shape to the angular upper ends of the two bent blades D. This cavity preferably has an upper wall or ledge E, and a vertical integral web which is provided with a transverse opening F, for the passage of a clamping bolt G. The opposite side of this extension B, is provided at its upper edge with an angular outwardly projecting extension H, to receive the upper end of block I, and below the extension H, the web is preferably made flat. The block I fits against this flat portion of the web and also against

the under side of the extension H and the upper end of this block is made angular to correspond with the angular upper extension H to prevent the displacement of the parts when in use.

Immediately below the extension H, there is a slightly raised portion J, on the vertical web about equal to the thickness of the straight blade K, which is placed between the block I and the flat side of the vertical web on the extension B, and this straight blade extends entirely across the cutter to form together with the two bent blades a six bladed cutter, as clearly shown in Fig. 1.

The outer side of the block I is provided with an angular cavity corresponding with the cavity formed in the outer side of the projection B, and this cavity receives the upper end of one of the bent blades D, corresponding with the bent blade at the opposite side of the extension B. This block I is provided with a horizontal opening M, corresponding and registering with the opening F, in the portion B.

Each of the blades is provided with a vertical opening through which the clamping screw or bolt G, passes, and resting against the outer sides of the upper ends of the bent blades within the cavities C formed in the portion B and the block I, are the angular blocks N, having also transverse openings for the passage of the clamping bolt. These blocks have at their outer sides countersinks P, to receive the nut Q of the clamping bolt, so that the bolt may be inserted from either side of the handle, and the nut held against rotation while the bolt is clamping the parts together. These angular blocks N are provided at their upper corners with the small projections R, which fit over the top of the shoulders S at the upper ends of the bent blades.

From the above description it will be seen that I have produced a very simple, cheap and effective means for detachably connecting the blades to the handle.

Referring now to Figs. 5 to 8 inclusive, *a*, is the handle. *b*, is the extension at the lower side thereof which is provided with angular cavities at each side thereof for the reception of the upper ends of the bent blades *c*, which are provided at their upper ends

with the openings *d*. In this modification the central straight blade shown in Fig. 1 is omitted, and only two bent blades used, thus producing a four bladed instead of a six bladed cutter. The cavities in the extension of the handle are provided with ceilings *e*, similar to the cavities in Fig. 1, and in addition to this the vertical walls of these cavities are provided with a central stud *f*, just over the horizontal bolt opening *g*, which studs rest between the projecting ends *h*, of the bent blades. Angular blocks *i*, rest within the angular cavities of the handle extension against the outer sides of the upper ends of the bent blades, and are provided with horizontal bolt openings *m*, for the passage of the clamping bolt *n*. One of these angular blocks is provided with a cavity *p*, in its outer side for the reception of the nut *q*, of the clamping bolt for holding the nut against turning when the bolt is being turned for clamping the parts together. Each of the angular blocks is also provided at its inner lower side with a slight projection *r*, which engages the bend *t* in the blade, whereby the lower portion of the block rests firmly and evenly against the outer side of the blade.

From the above description it will be seen that the modification differs from the construction in Fig. 1 very slightly, the greatest difference being the omission of the straight central blade, and the additional intermediate block I for clamping the same to the extension B of the handle. In each case the handle has an extension provided with angular cavities for the reception of the upper ends of the angularly bent blades, and angular blocks, combined with the clamping bolt and its opening. I do not desire however to limit myself to the use of the outer angular blocks, though I prefer to use them.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A cutter comprising a handle having a depending vertical web having a transverse opening, horizontal lateral oppositely extending ledges at the upper end of said web, depending vertical walls beneath said ledges, blades having upper ends fitting between the said walls and provided with transverse bolt holes, removable blocks fitting against the outer walls of said blades and provided with bolt holes, and a bolt passing through said blocks, blades and web.

2. A cutter comprising a handle having a depending vertical web provided with a transverse opening, horizontal lateral oppositely extending ledges at the upper end of said web, depending vertical walls beneath said ledge, blades having reduced upper ends fitting between said depending walls and forming lateral shoulders, said upper ends having transverse bolt holes, removable blocks fitting against the outer sides of said blades and provided with bolt holes, and a bolt passing through said blocks, blades and web.

3. A cutter comprising a handle having an extension with an angular cavity in its outer side, and a transverse bolt opening extending thereinto, an angular blade having its upper end fitting within the cavity and a straight blade resting against the opposite side thereof, a block resting against the outer side of the said straight blade and provided with a bolt opening and an angular cavity in its outer side, an angular blade placed within the angular cavity of the block, the blades having openings registering with the said bolt openings, and a clamping bolt substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

NELSON R. STREETER.

Witnesses:

CHAS. O. RHODES,
M. F. STEVENS.