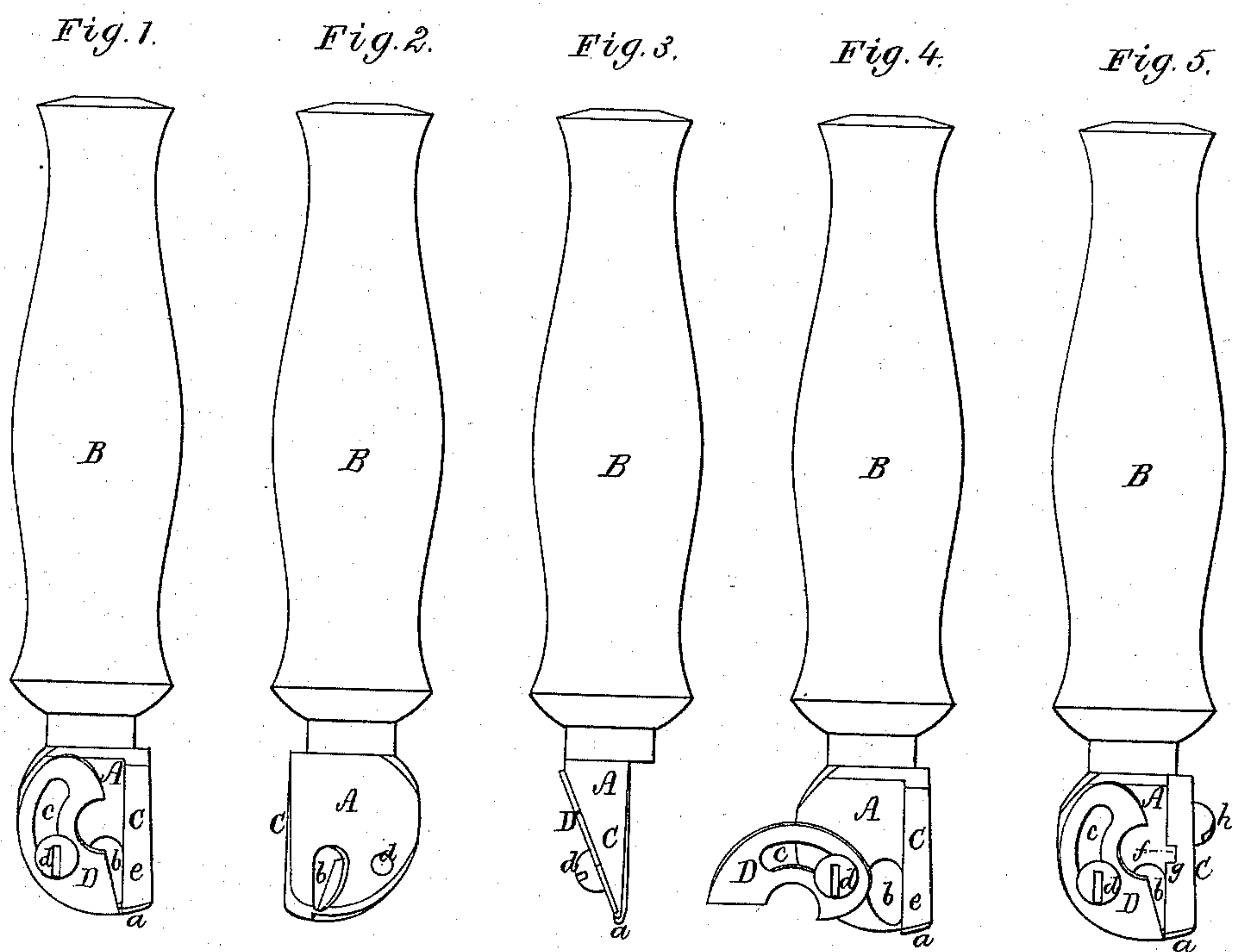


I. A. DUNHAM.
Welt-Trimmers.

No. 157,678.

Patented Dec. 15, 1874.



Witnesses.
Geo Gray.
A. C. Halse.

Isaac A. Dunham.
by his attorney.
A. P. Halse

UNITED STATES PATENT OFFICE.

ISAAC A. DUNHAM, OF BROCKTON, MASSACHUSETTS.

IMPROVEMENT IN WELT-TRIMMERS.

Specification forming part of Letters Patent No. 157,678, dated December 15, 1874; application filed September 24, 1874.

To all whom it may concern:

Be it known that I, ISAAC A. DUNHAM, of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Welt-Trimmers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

In the said drawing, Figures 1 and 2 are side elevations, and Fig. 3 an end elevation, of my improved implement. Fig. 4 shows the knife turned back into a position for being ground.

My present invention is an improvement upon that patented by me on September 22, 1857, subsequently reissued and extended; and consists in a novel construction and arrangement of the parts, whereby the knife is not only rendered capable of having a compound adjustment, viz., both longitudinally and toward and away from the guard, but is capable of being turned back into a convenient position for being ground without removal from the stock, while the guard is so formed that, as the nipple on its extreme end becomes worn, the same may be bent over and a new nipple swaged or formed thereon, the peculiar construction of the knife and its compound movement enabling the knife to be readily adjusted to conform to the reconstructed nipple.

In the drawing, A denotes the stock, which is a wedge-shaped block of metal affixed to a handle, B. C is a guard attached to or forming part of the stock, the same having a small curved projection or nipple, *a*, formed thereon, the same being like that shown in my said patent. The stock is formed with a throat or chip-passage, *b*, through it, the same being shown in Figs. 1, 2, and 3. D is the knife or cutter, which is a thin plate of steel of a segmental or curved shape, having its back corresponding in curvature with that portion of the stock to which it is applied. This knife has a curved slot, *e*, formed through it, its curvature being coincident with that of the back of the knife. *d* is a set-screw, which passes through the slot and into the stock A,

the head of the screw overlapping the edges of the slot and serving to confine the knife firmly in position. By forming the guard C with a long shank *e*, as shown, should the nipple become worn out, the end of the guard may be bent over and a new nipple swaged or formed thereon, and the knife, by the arrangement of its curved slot, may be moved downward to correspond with the depression or shortening of the guard, and so as to maintain its true and relative position with respect to the guard and stock, while the same also allows the knife to be turned backward and held in the position to be ground, all of which cannot be effected in my patented implement, as the cutter was so formed and applied to the stock as to be capable of but a single adjustment, viz., either toward or away from its guard, so that when the nipple becomes so worn as to be unfit for use the whole implement becomes worthless.

By my peculiar construction of the parts of the new implement, a great saving of time and labor is effected in comparison to that involved in the manufacture or production of my said patented one.

I would remark that the guard may be made in a separate piece from that of the stock and united thereto by a tongue, *f*, on the guard, and a corresponding groove, *g*, in the stock, or vice versa, and have a set-screw, *h*, by which the guard may be moved laterally, so as to gage or adjust the knife to cut any desired thickness of shaving, the same being as shown in Fig. 5; but in ordinary cases the stationary guard is all that is requisite.

I do not claim, broadly, combining a knife with its stock and guard in such manner that the knife may be adjusted both vertically and toward and away from the guard, as I am aware that such has heretofore been effected by the employment of a separate mechanism for each adjustment. By my peculiar construction and arrangement a single mechanism or device effects not only both of such adjustments, but also the additional one of adjusting or holding the cutter in a convenient position for being ground or sharpened.

Having described my invention, what I claim is—

1. In a welt-trimmer, substantially as de-

scribed, the combination, with the stock A and guard C, of the segmental knife or cutter D, when provided with the concentric slot *c* and set-screw *d*, arranged as specified, whereby, by simply turning the latter, the cutter may not only be adjusted vertically and laterally with respect to the guard, but also adjusted and held in a convenient position for being sharpened, as shown and described.

2. A welt-trimmer consisting of the stock A, the curved segmental knife or cutter D, provided with the concentric slot *c* and set-

screw *d*, and the lipped guard C, projecting over the point of the cutter, and adjustable at right angles to the plane of its cutting-edge, the whole being arranged and combined together in manner as shown and described.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

ISAAC A. DUNHAM.

Witnesses:

F. P. HALE,

F. C. HALE.