(No Model.)

S. DEACON & W. MILLER.

Welt Trimmer.

No. 235,854. Patented Dec. 28, 1880.

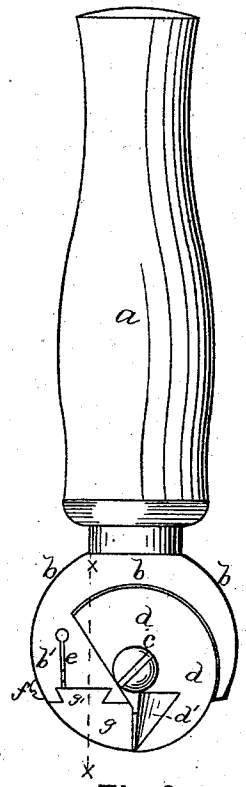


Fig. 1.

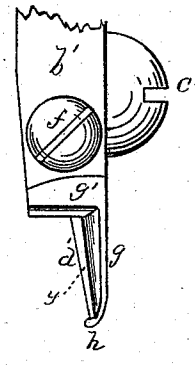
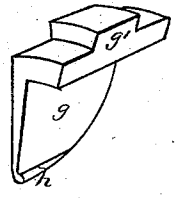


Fig. 2.



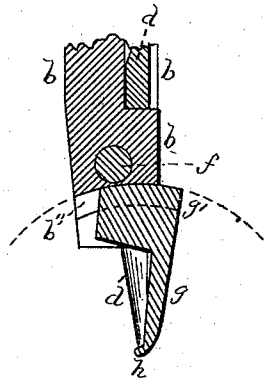


Fig. 3.

Fig. 4

WITNESSES

D. W. Williams

A. H. Bridge.

Samuel Deacon,
Walter Miller
INVENTORS

By their Att'y.

Henry W. Williams

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL DEACON AND WALTER MILLER, OF LAWRENCE, MASSACHUSETTS.

WELT-TRIMMER.

SPECIFICATION forming part of Letters Patent No. 235,854, dated December 28, 1880.

Application filed October 16, 1880. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL DEACON and WALTER MILLER, both of Lawrence, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Welt-Trimmers, of which the following is a specification.

The object of this improvement is to provide a practical welt-trimmer, which can be adjusted to cut shavings of different degrees of thickness from the welt without injury to the boot or shoe. In order to accomplish this result the guard has its inner thick end provided with a dovetail cut upon a circle whose center is the lip, said dovetail being adjustably secured in a circular groove in the frame, constructed as below set forth.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a front view of our improved welt-trimmer. Fig. 2 is an enlarged side elevation of a portion of the same. Fig. 3 is an enlarged vertical section upon line *x*, Fig. 1. Fig. 4 is an enlarged view of the guard detached.

a is the handle, and *b* the metallic frame or supporting-plate, to which the knife *d*, provided with the blade or edge *d'*, is adjustably secured by the screw *c*. This construction and mode of securing to the frame are common and allow of the knife being set forward as fast as the blade is worn.

A dovetail groove, *b''*, Fig. 3, is cut in the frame *b*, and a slot, *e*, extends from the groove upward, as shown in Fig. 1, thus causing the portion *b'* of the frame to be a spring operated by the screw *f*, which extends through *b'* into the main portion *b* of the frame. The dovetail groove *b''* is cut on a circle, as seen in Fig. 3.

g is the guard which prevents the knife from cutting the upper, as is well known. *h* is the lip, constructed as usual. This guard has its upper end thick and provided with a dovetail cut on a circle fitting into the groove *b''*, such circle having for its center the lip *h*.

The operation is as follows: The guard having been placed in position, it is secured there by the pressure of the spring or clamp *b'*, produced by the action of the screw *f*. The shaving removed by the knife-blade *d'* passes through the space, *y*, (see Fig. 2,) which lies between said blade *d'* and the guard *g*. To make this space larger or smaller, and consequently the shaving thicker or thinner, at will, the screw *f* is loosened and the guard *g g'* moved in the circular groove *b''*, as shown in Fig. 3; but as the center of the circle upon which the dovetail *g'* and the groove *b''* are cut is the lip *h*, it is evident that however much the guard is moved and however thick a shaving is cut, the lip still remains in place to protect the shoe from the knife.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination, with the frame *b*, provided with the slot *e*, screw *f*, and circular dovetail groove *b''*, and supporting the knife *d d'*, of the guard *g*, provided with the lip *h*, said guard having its upper end provided with a dovetail, *g'*, cut upon a circle whose center is the said lip and fitting the said dovetail groove, substantially as and for the purpose set forth.

2. In a welt-trimmer, the guard *g*, provided with the lip *h*, and having its upper edge cut upon a circle of which the lip is the center, and adapted to slide in the frame *b*, substantially as and for the purpose specified.

SAMUEL DEACON.
WALTER MILLER.

Witnesses:
WILLIAM F. JEFFERY,
FRANK SANDERSON.