

H. Eichler

Chilling Leather.

No. 87,481.

Patented Mar. 2. 1869.

Fig. 1.

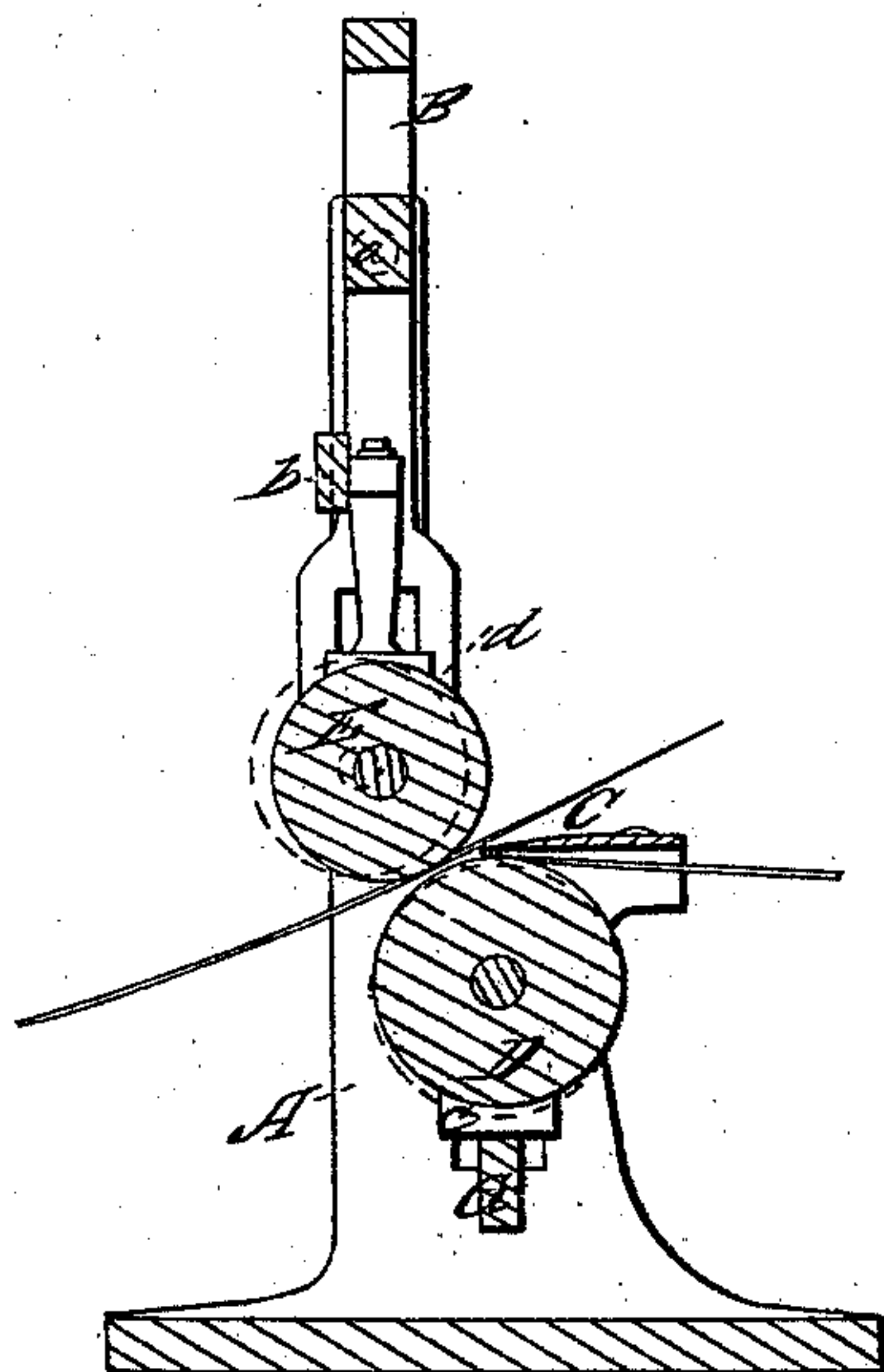
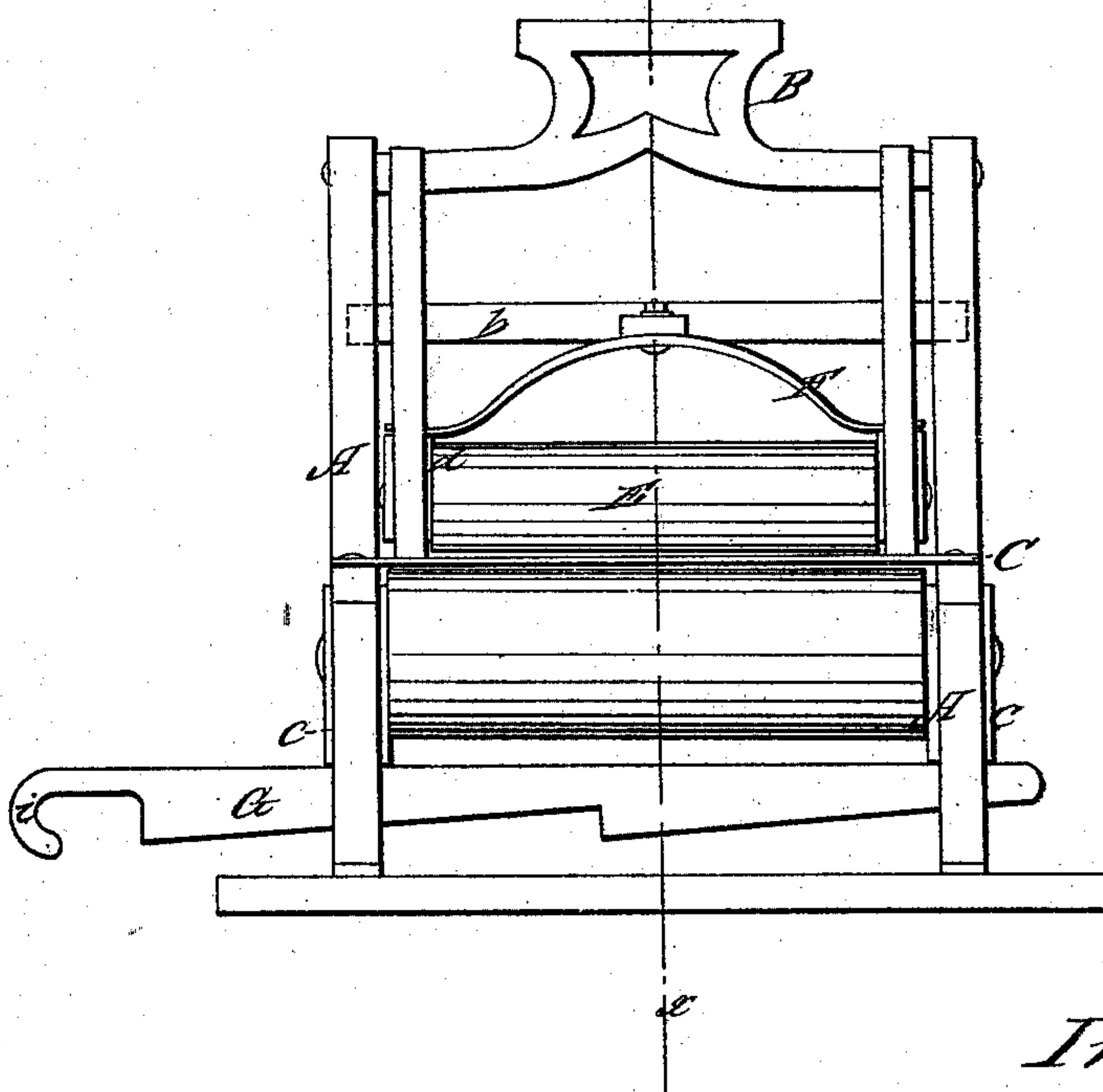


Fig. 2.



Witnesses:

*W. T. Dodge
L. H. Ailer*

Inventor:

*H. Eichler
By Dodge & Munroe
his attys*

United States Patent Office.

HEMON EICHLER, OF NEW LISBON, WISCONSIN.

Letters Patent No. 87,481, dated March 2, 1869.

IMPROVED LEATHER-CUTTING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HEMON EICHLER, of New Lisbon, in the county of Juneau, and State of Wisconsin, have invented certain new and useful Improvements in Leather-Cutting Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

This invention relates to machines for shaving or splitting leather, and consists in a novel arrangement of devices, whereby a machine is produced that will shave or split leather to any required thickness, quickly, and without waste.

Figure 1 is a vertical cross-section through my machine, on the line *xx* of fig. 2.

Figure 2 a front elevation of the machine.

The machine consists of an upright frame, A, having secured to it the stationary knife C, and provided with the rollers D and E, the former being located across the machine, directly under the edge of the aforesaid knife C, and the latter mounted in the lower end of a swinging frame, B, above the knife C.

The leather to be operated upon is passed between the two rollers, and against the edge of the knife, as shown by the red lines in fig. 1, the body of the leather or valuable portion passing through, under the knife, between it and the roller D, while the surplus portion taken off, will pass above.

To compensate for the inequalities in the thickness of the leather, I mount the upper roller E in boxes *d* sliding up and down in slots in the lower end of the frame B, and secure to said frame a spring, F, above the said roller, and having one end bearing upon top of each of the boxes *d*, thus, while always holding the roller down firmly upon the leather, allowing it to yield and rise when the leather is very thick at any point.

When leather is to be presented to the action of the knife, the frame B may be swung out, so as to throw its roller E back, as shown in red lines in fig. 1,

thus permitting the leather to be adjusted against the knife as desired, after which the frame is brought down, and being pivoted, as aforesaid, presses the roller E down upon the leather with great force; and the more the strain brought upon the leather to draw it through, the greater the pressure down upon it. Thus the leather is cut to a uniform thickness throughout.

To provide for cutting leather to any requisite thickness, I mount the lower roller D in adjustable boxes *c*, playing in vertical slots in the main frame A, and provide a bar, G, in shape similar to two wedges, connected end to end, and facing in the same direction, and locate this bar across in the main frame, under the boxes *c*, in such a manner that by moving the said bar in one direction or the other, the roller will be raised or lowered, both ends alike, all as clearly shown in figs. 1 and 2.

One end of this bar extends out a considerable distance on one side of the machine, and has fashioned upon it a handle, *i*, for convenience in operating it.

To prevent the frame B from swinging through, or the roller E from coming in contact with the edge of the knife, I place, across the frame B, a bar, *b*, with its ends projecting beyond the sides of said frame, as shown by the dotted lines in fig. 2, and which, when the frame B has reached a perpendicular position, strikes against the main frame A, and prevents its further movement.

By this means I am enabled to make a machine specially adapted to the wants of harness-makers, and similar workers in leather, that is simple, cheap, and efficient.

Having thus described my invention,

What I claim, is—

1. A leather-shaving machine, consisting of the stationary knife C, the adjustable roller D, and the roller E, mounted in a swinging frame, substantially as herein described.

2. In combination with the adjustable roller D, the wedge G, arranged to operate substantially as set forth.

HEMON EICHLER.

Witnesses:

N. M. HESS,

JOHN WIEDERMANN.