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JACOB H. MUDGETT.

Skiving Machines.

No. 121,887. Patented Dec. 12, 1871.

Fig. 2

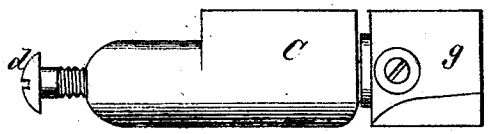


Fig. 3

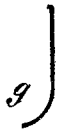
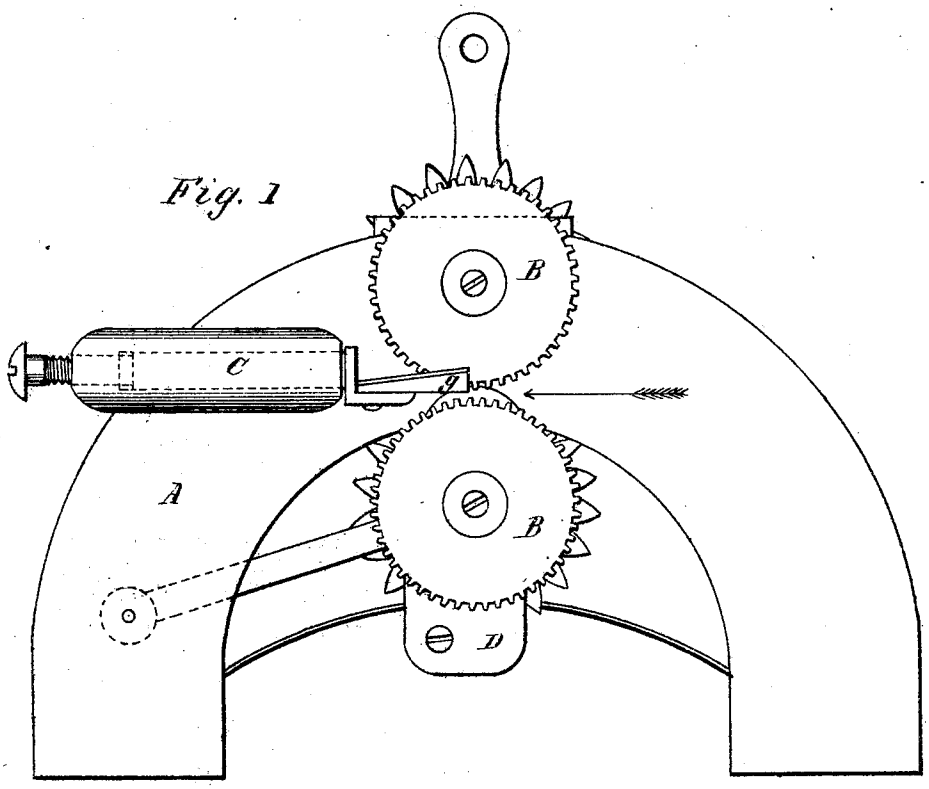


Fig. 4

Fig. 1



Witnesses
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UNITED STATES PATENT OFFICE.

JACOB H. MUDGETT, OF LYNN, MASSACHUSETTS.

IMPROVEMENT IN SKIVING-MACHINES.

Specification forming part of Letters Patent No. 121,887, dated December 12, 1871.

To all whom it may concern:

Be it known that I, JACOB H. MUDGETT, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Skiving-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 represents an end elevation of an ordinary skiving-machine having my improvement applied thereto. Fig. 2 represents a plan or top view of the skiving-knife or cutter, peculiar in my invention, and the connected socket which carries the cutter. Fig. 3 represents an edge or cutting end of the knife or cutter taken in the direction of the arrow in Fig. 1, which clearly defines its shape or form. Fig. 4 represents an end elevation of the knife and socket attached, being an end view of Fig. 2.

This invention relates to the machines which are used for skiving heel-stiffenings or counters and welts; and has for its object the uniform and certain performance of the skiving process without splitting or injuring the stock or stiffening being skived. This invention consists of a curved skiving-knife or cutter, *g*, which has its outer edge turned upward, which produces a curved cutting end or edge of about that form shown in Fig. 1.

In the said drawing, I have shown an ordinary skiving-machine, which consists of two parallel geared shafts arranged upon a suitable framework, A, both shafts arranged to rotate in opposite directions, and provided at their operating ends each with a serrated or burr-wheel, B, for feeding the leather to the cutter, the lower shaft having a yielding action at its operating end to allow stock of unequal thicknesses to pass between the burr-wheels; said machine is also provided with the usual knife-holding socket C and a set-screw, *d*, to move the cutter forward as it becomes worn by grinding or otherwise. In the ordinary skiving-machine the knife or cutter has a straight cutting-edge, being simply a flat piece of steel with its forward end reduced sufficient to form a cutter, and the stock to be operated upon consists in nearly all cases of thin pieces of leather pasted together, several layers being required to form a counter or stiffening of sufficient thickness. When skiving these pasted up shoe-stiffenings the straight-edged cutter frequently runs between two of the thin layers of which the stiffening is formed, separating and dividing, and often tearing the stock and spoiling the stiffening or the piece being skived.

By the use of my improved skiving-knife or cutter the splitting or other injury to the stiffenings is fully obviated; and each and every shoe-stiffening skived with my said cutter will be well and perfectly done.

In most of the skiving-machines there is an inside plate, D, which extends upward, and is notched onto the inner corner of the cutter, and when the stock is passing between the burr-wheels and the lower wheel is moved away from the upper one the connected plate *d* has an effect to rock the cutter or to move its outer edge upward, evidently for the purpose of preventing the cutter running between the layers of the pasted-up stiffening; but this operation proves ineffectual.

My improved curved-edge cutter also overcomes this difficulty; or, in other words, its effect is such that the notched rocking plate may be dispensed with, thus removing one essential element in the ordinary skiving-machine; and also removing and substituting a more perfect cutter or a more certain and uniform operating cutter for that in common use.

I claim as my invention—

The curved-edged cutter *g*, constructed as described, in combination with the socket C and the burr-wheels B of an ordinary skiving-machine, operating in the manner and for the purpose set forth.

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