(No Model.)

2 Sheets—Sheet 1.

G. BEDDOW.

LEATHER SKIVING MACHINE.

No. 275,458. Patented Apr. 10, 1883.

Fig. 1.

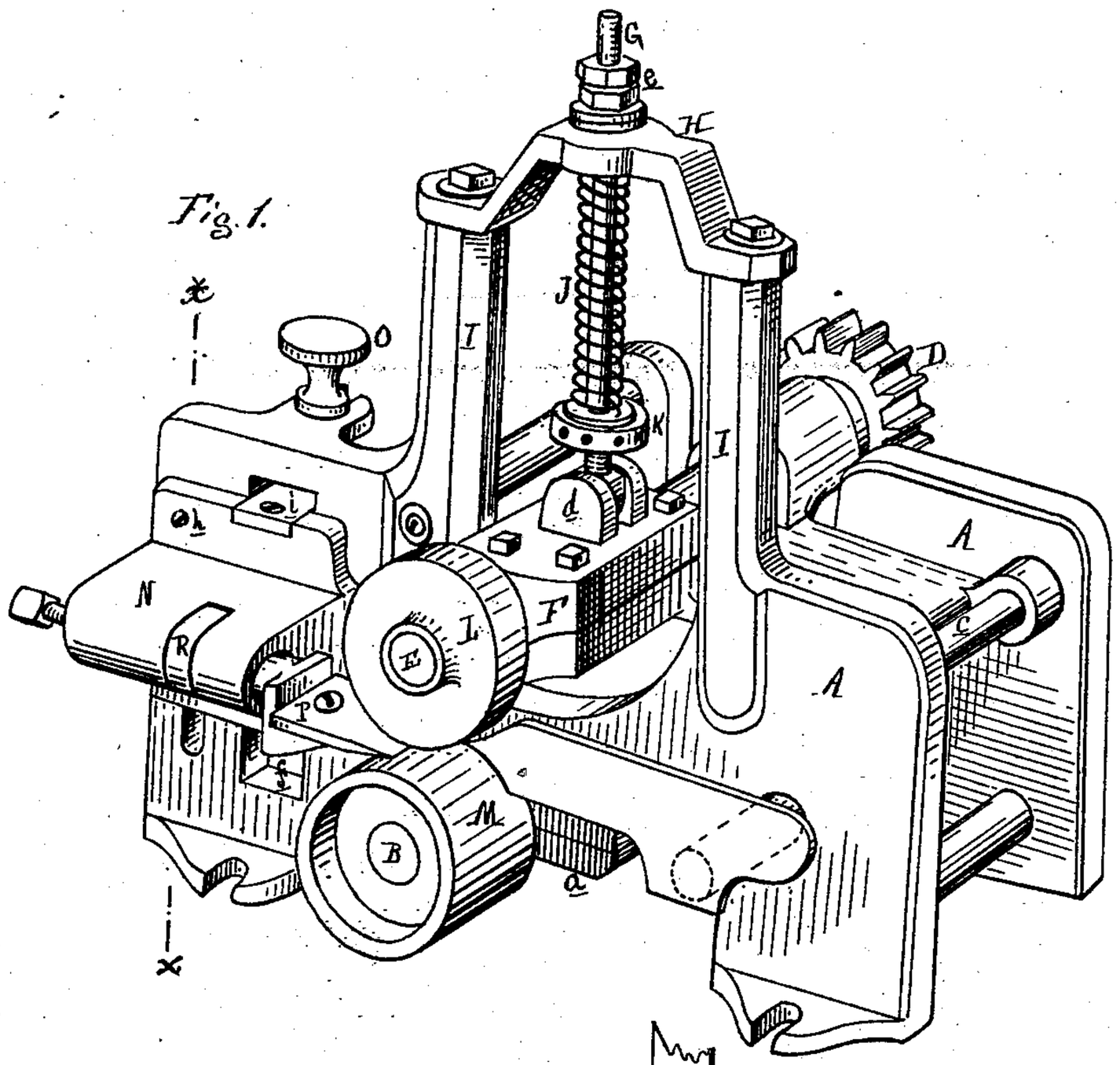
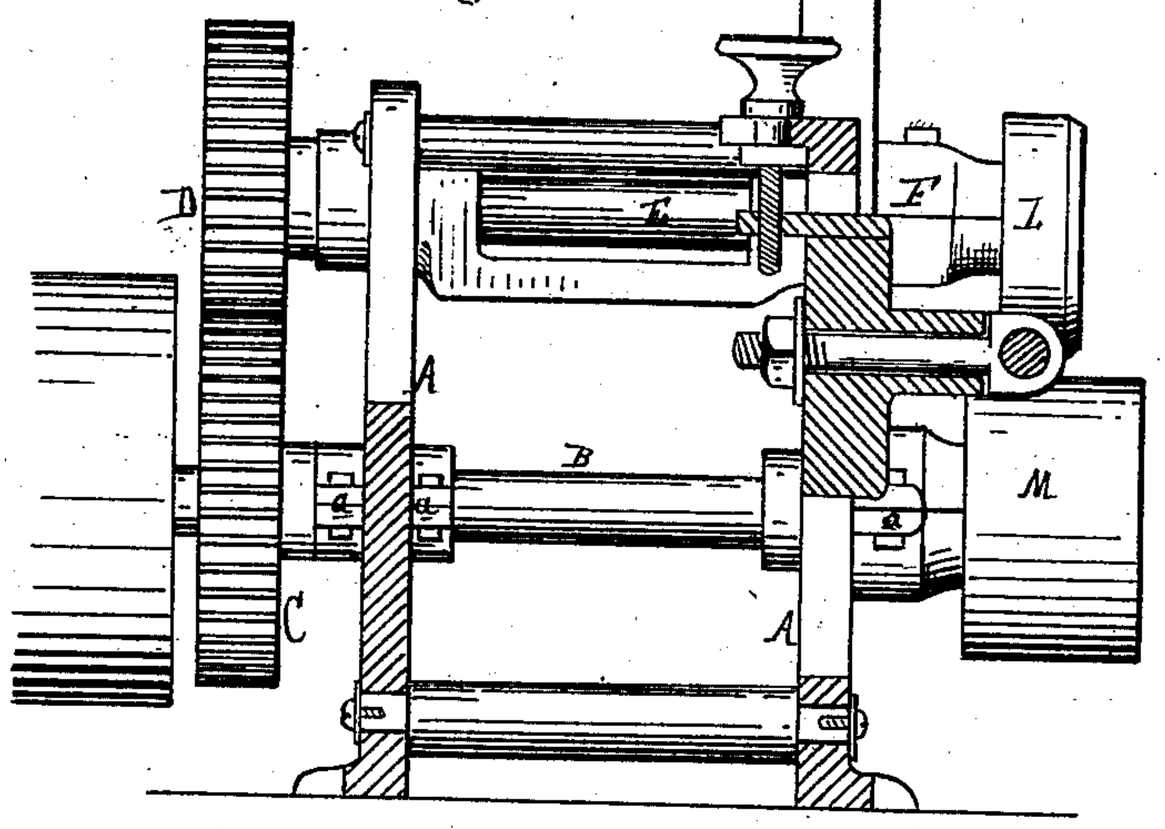


Fig. 2.



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(No Model.)

2 Sheets—Sheet 2.

G. BEDDOW.

LEATHER SKIVING MACHINE.

No. 275,458. Patented Apr. 10, 1883.

Fig. 3.

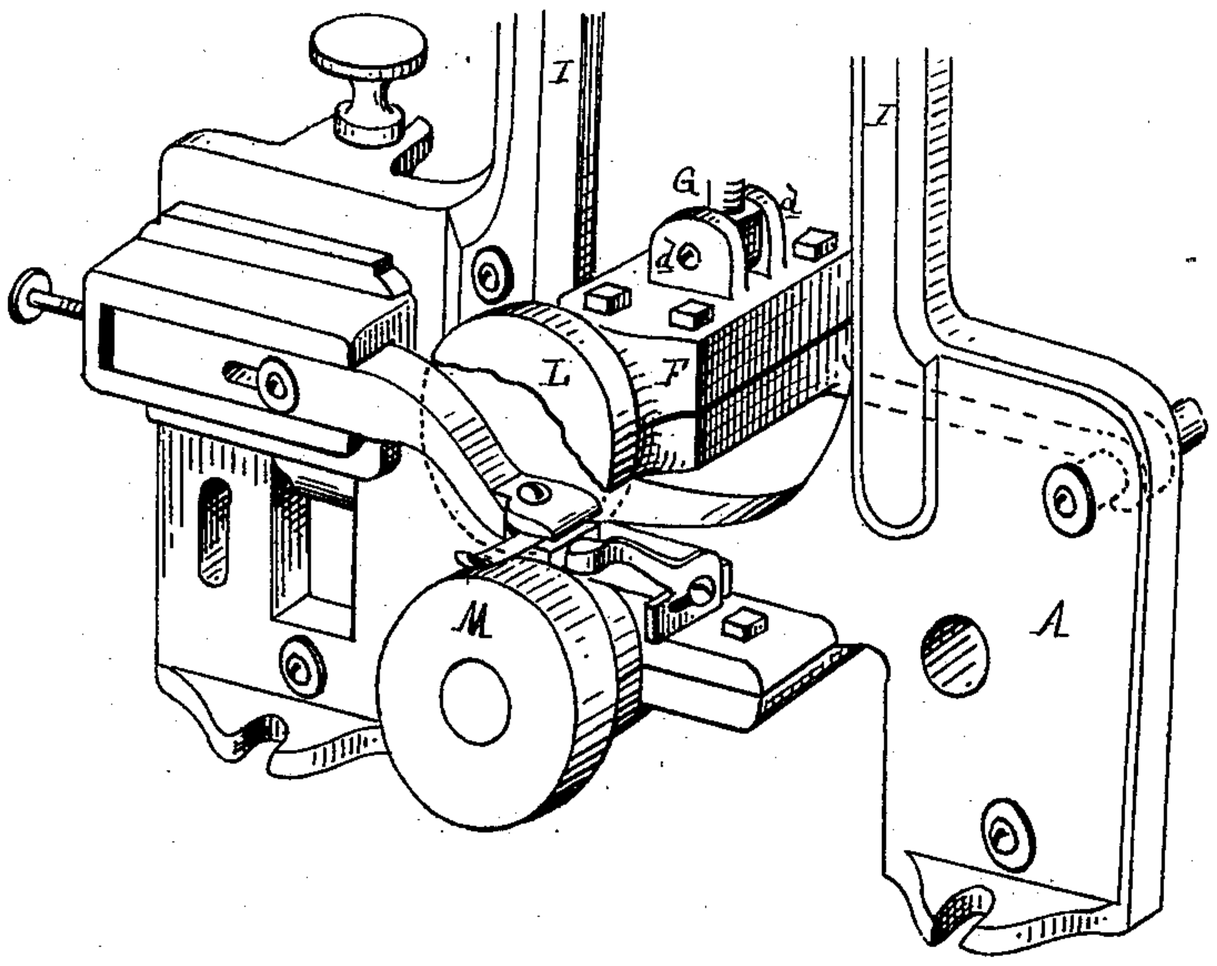
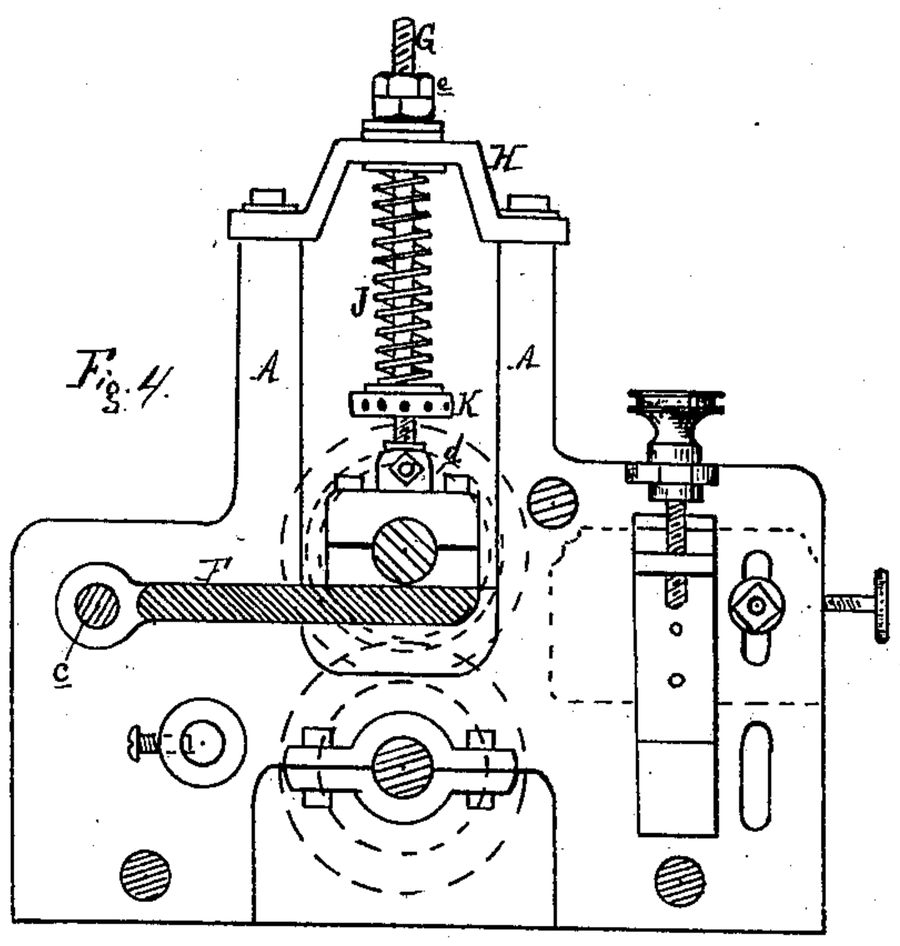


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE BEDDOW, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO JOSEPH P. ROSE, OF SAME PLACE.

LEATHER-SKIVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 275,458, dated April 10, 1883.

Application filed October 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BEDDOW, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Leather-Skiving Machines; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction of that class of machines employed for feather-edging or skiving soles, stiffeners, counters, &c., in boot and shoe manufacturing.

The invention consists in the peculiar construction and arrangement of parts whereby the knife is adjusted and held to its adjusted position with relation to the stationary feed-roller; in the peculiar construction and arrangement of devices employed in connection with the yielding feed-roll whereby a greater or lesser compression is afforded said roller, and in the peculiar construction, arrangement, and various combinations of the parts, all as more fully hereinafter set forth.

Figure 1 is a perspective view of my improved skiving-machine. Fig. 2 is a vertical cross-section on the line X X. Fig. 3 is a partial perspective, showing the adaptation of a feather-edging knife; and Fig. 4 is a vertical longitudinal section looking toward the front.

In the accompanying drawings, A represents a suitable frame-work, which carries the operating parts of my machine.

B is a shaft journaled in proper bearings, *a*, laterally across the frame A, and in the lower portion thereof, as shown. The rear projecting end of this shaft B carries a gear-wheel, C, which meshes with a similar gear-wheel, D, upon the rear projecting end of the shaft E. This shaft E is journaled in proper bearings in the free end of the vibrating frame F, the opposite end of which is pivotally secured to the girt *c* of the frame A.

d are two lugs rising from the free end of the vibrating frame F, between which is pivotally secured the lower end of the threaded rod G, the upper end of which passes through the girt H, which connects the upper ends of the posts I, rising from the frame A and forming a portion thereof. Around this bolt G is placed a coil-spring, J, the outer end of which finds resistance against the under face of the girt or strut H, while the lower end rests upon a nut, K, which is screwed upon the bolt, while the upper or projecting end of such bolt is properly threaded to receive the nuts *e*. By this construction and arrangement of parts it can readily be seen that the vibrating frame can be adjusted so as to exert a greater or lesser pressure of the feed-roll L on the end of the shaft E, upon the feed-roller M on the shaft B, and to compress the work which is fed to the knife between such rollers, while at the same time the upper roller, L, by means of this arrangement, yields to the various inequalities occuring in the thickness of the leather.

At one end of the machine is arranged the sliding frame N, which is provided with an inwardly-projecting lug, *i*, which fits into a slot, *f*, in the side of the frame A, and this frame N is adjusted vertically to the desired position by means of the thumb nut and screw O, and is secured to such adjusted position by means of suitable bolts, *h*. Through the outer end of this frame or bracket N is formed the longitudinal recess for receiving the shank of the knife P, said knife being securely locked to its adjusted position by means of the clamp R. This clamp consists of a suitable bolt, through the head of which is formed an eye, through which the shank of the knife projects, while the opposite end of the bolt passes rearward through the bracket or frame N and receives upon its end a nut, by means of which the bolt is drawn inwardly, securely clamping the knife within the bracket or frame. By this arrangement of parts it can readily be seen that the knife P can be adjusted to its proper position with relation to the rigid feed-roller M, and thus secure a uniformity in the work performed by the machine over those constructions wherein the knife adjusts itself to and with the vibrating roller, and wherein the knife is held between certain guides, which often in the working of the machine bind and break out the cutting-edge of the knife, all of which is avoided in this machine. To advance the knife, a suitable bolt is tapped in the end of the cross-

head of the bracket, as shown in Fig. 1, the end of which comes in contact with the end of the shank of the knife, and by means of which the knife can be advanced and adjusted, as desired.

It can readily be seen that, by the use of a machine constructed as herein described, counters can be easily and readily skived to any desired width of scarf within the width of the knife employed, for extra wide work it only being necessary to insert a knife of the desired width and to employ the corresponding width of feed-rollers.

It will also be seen that, the device can be advantageously employed for splitting stiffeners, counters, &c.

By substituting a knife similar to that shown in Fig. 3 the machine can be very advantageously employed for feather-edging insoles and fleshing outsoles, while a rand may be produced from any thickness of leather upon the same machine.

What I claim as my invention is—

1. In a leather-skiving machine in which the leather passes between two rolls, the knife P, held in the bracket N by the clamp-bolt R, combined with the means O for giving the knife P any desired vertical adjustment independent of either or both rolls, as set forth.

2. In a leather-skiving machine, and in combination with the vibrating frame F thereof, the threaded bolt G, coiled spring J, and nuts K and *e*, substantially as and for the purposes specified.

3. In a leather-skiving machine, and in combination with the feed-rollers L M thereof, constructed and arranged substantially as described, the bracket N, clamp-bolt R, for holding the knife adjustable within the frame of the machine, substantially as and for the purposes described.

GEORGE BEDDOW.

Witnesses:
H. S. SPRAGUE,
CHARLES J. HUNT.