

(No Model.)

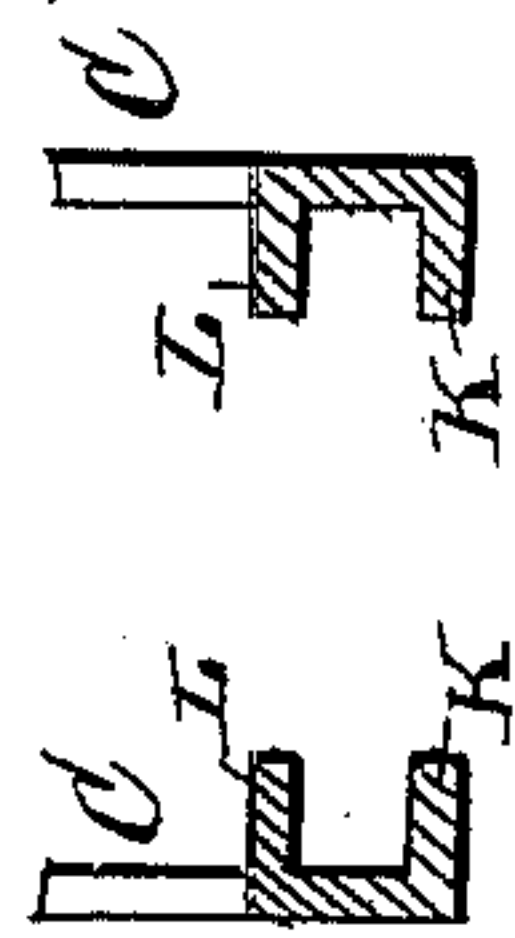
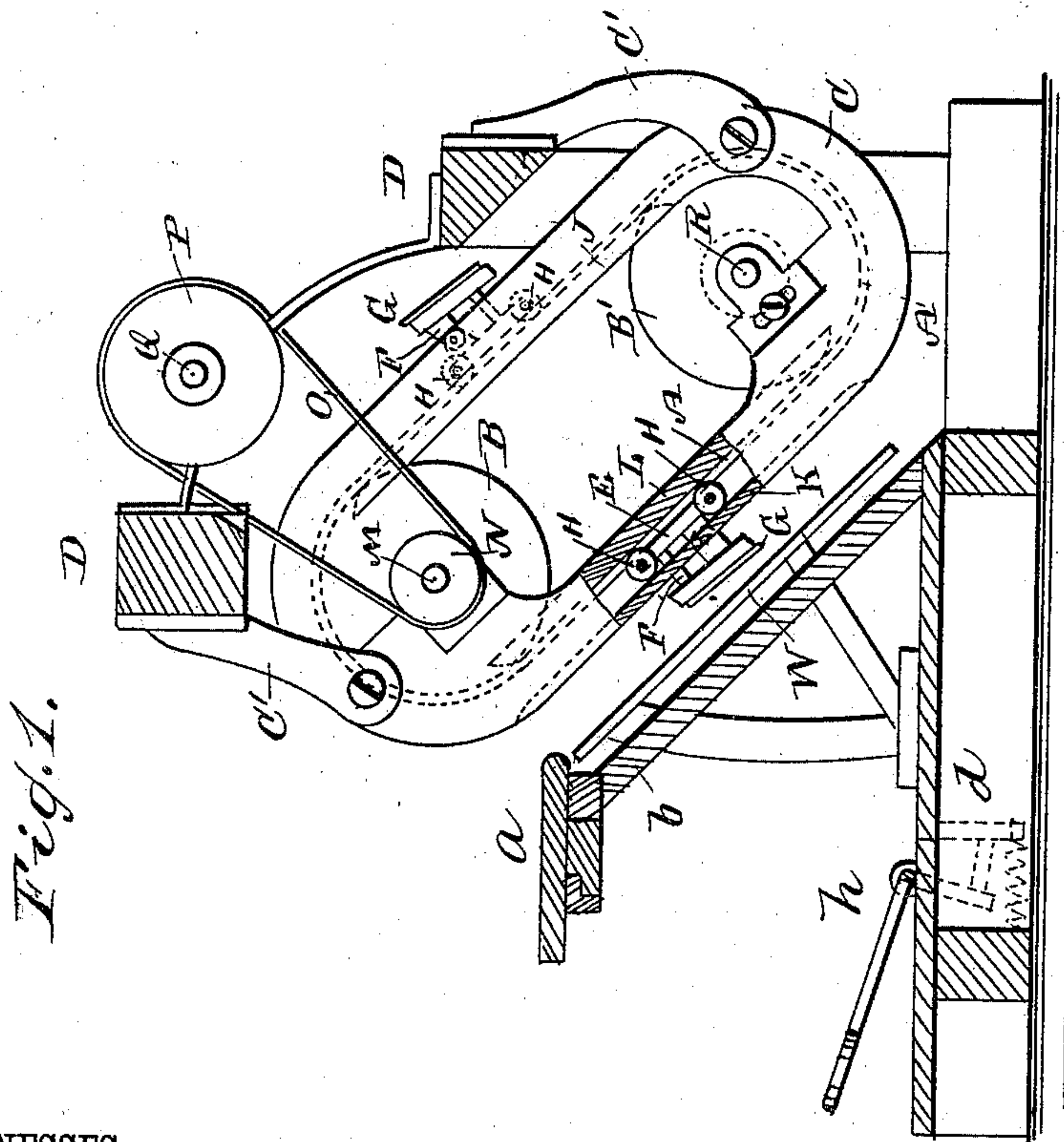
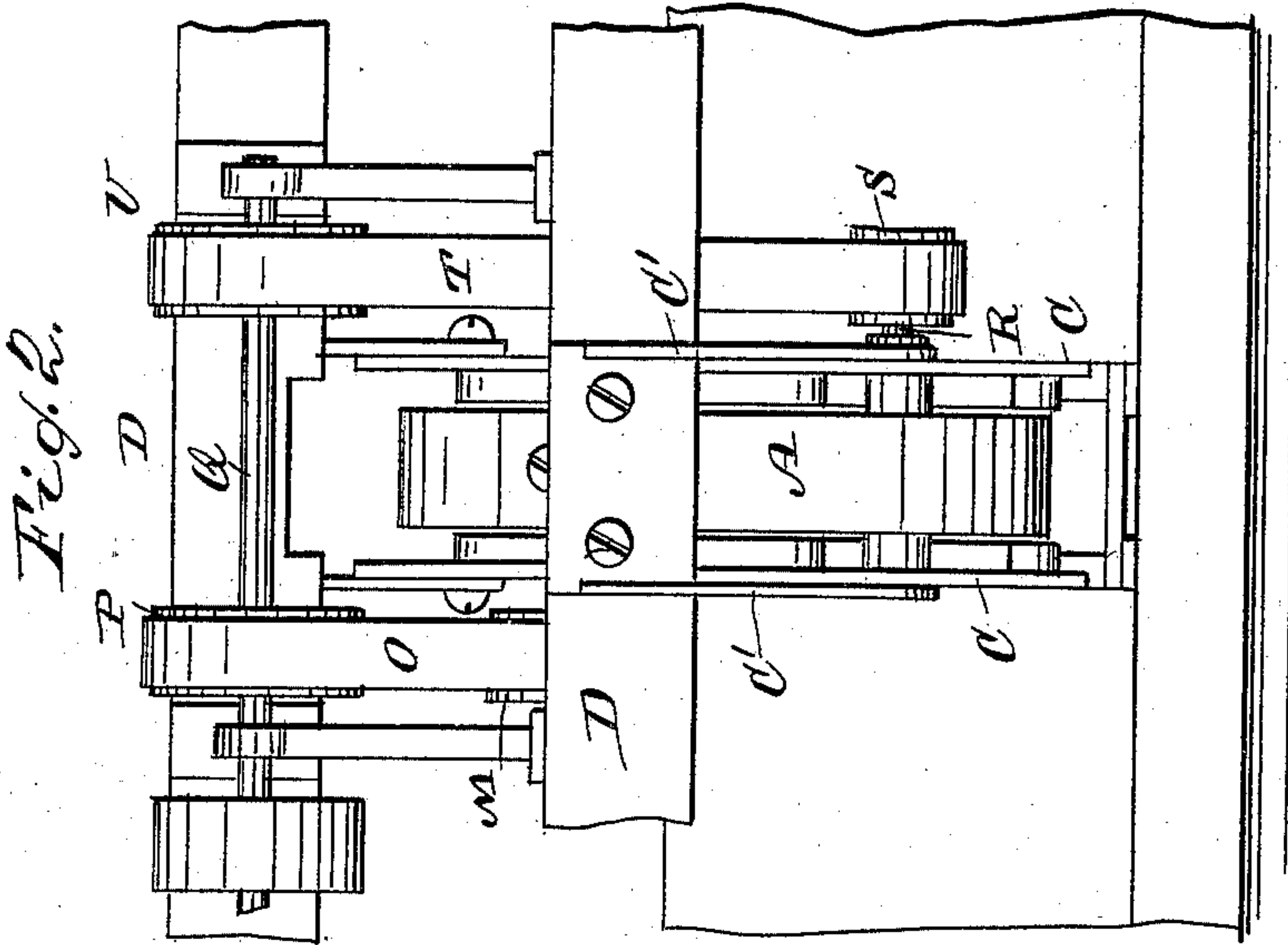
2 Sheets—Sheet 1.

A. W. REID.

HIDE FLESHING MACHINE.

No. 331,085.

Patented Nov. 24, 1885.



WITNESSES:

Geo. H. Foster
C. Sedgwick

INVENTOR:

A. W. Reid
BY *Munn & Co.*
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 4.

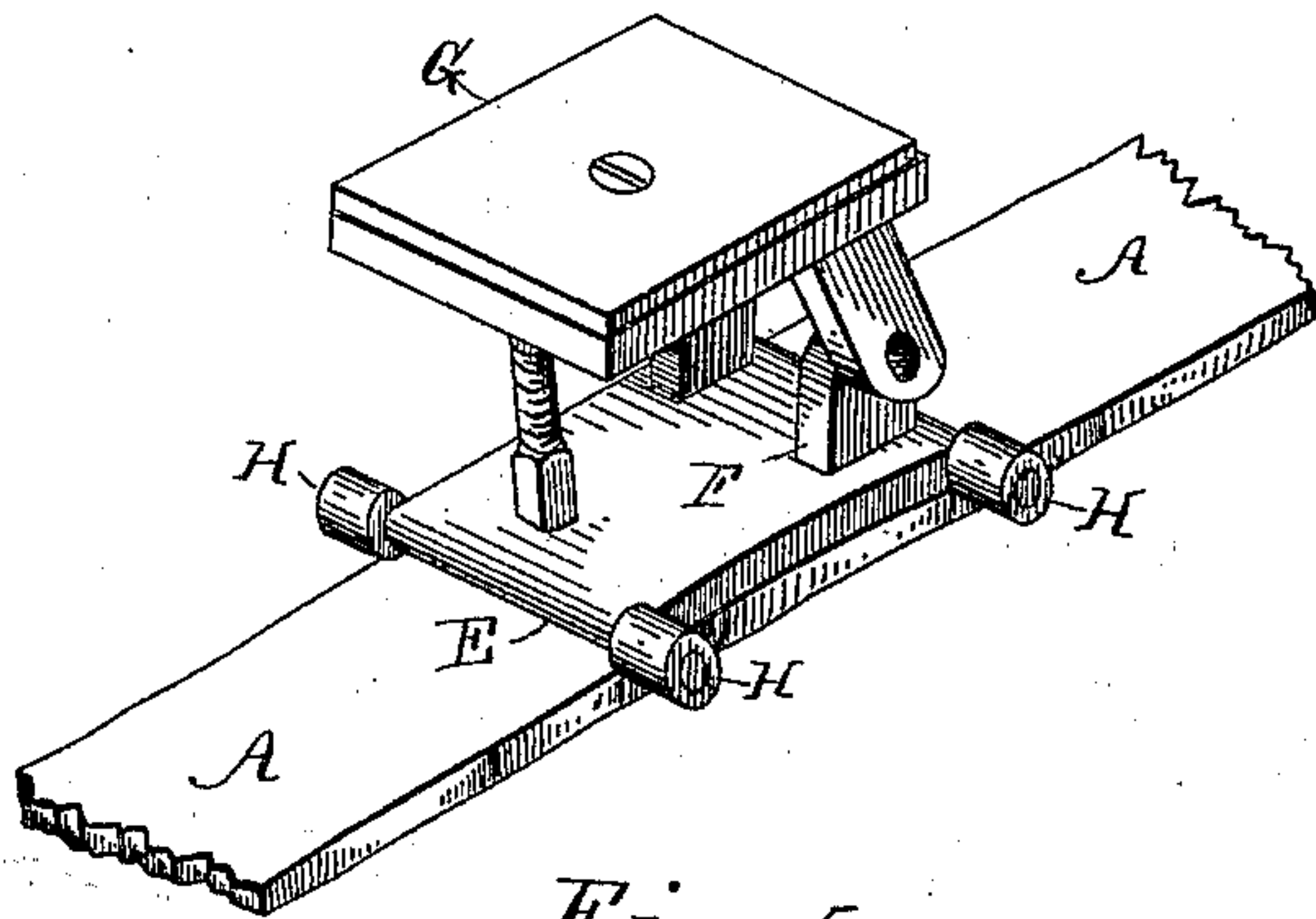
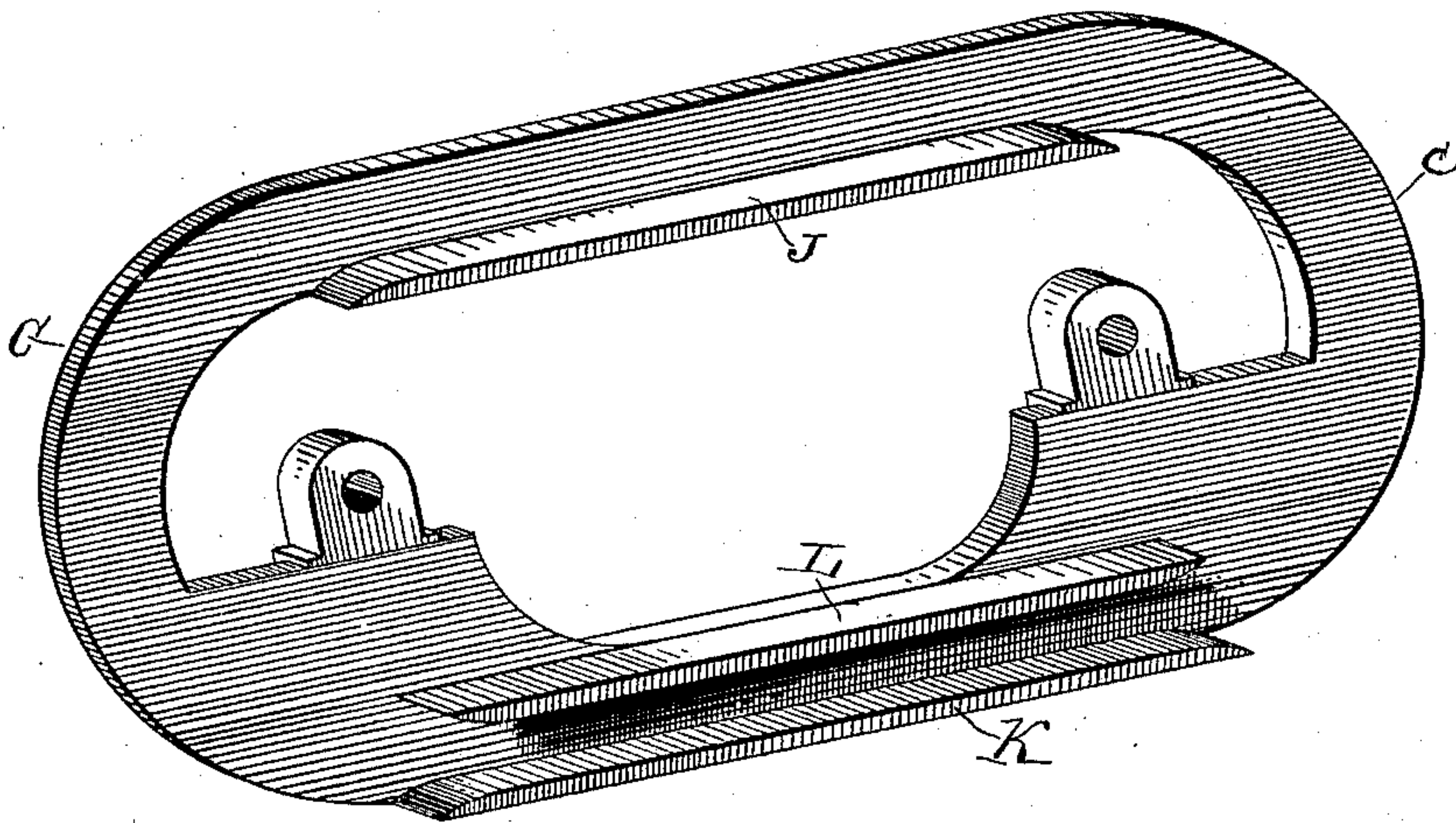


Fig. 5.



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UNITED STATES PATENT OFFICE.

ARCHIBALD W. REID, OF BALLSTON SPA, NEW YORK.

HIDE-FLESHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 331,085, dated November 24, 1885.

Application filed July 16, 1885. Serial No. 171,826. (No model.)

To all whom it may concern:

Be it known that I, ARCHIBALD W. REID, of Ballston Spa, in the county of Saratoga and State of New York, have invented a new and Improved Hide-Fleshing Machine, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved machine for removing the flesh, particles of fat, &c., from the inner sides of hides and skins before tanning them.

The invention consists in the construction and arrangement of parts, as will be herein-after fully described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal sectional view of my improved hide-fleshing machine. Fig. 2 is a front view of parts of the same, parts being broken out. Fig. 3 is a detail cross-sectional view of part of the same. Fig. 4 is a perspective view of one of the track-plates, and Fig. 5 is a perspective of one of the knife-carriages with the knife and adjusting-screw.

The endless belt A is passed over the two rollers or pulleys B and B', which are so placed that the top and bottom parts of the belt will be inclined downward at an angle of about forty-five degrees. Side plates, C, are placed at the sides of the pulleys and belt, and are held by arms C' from the frame-work D of the machine. On the outer surface of the belt A a series of plates, E, are secured, and on the same small frames F are secured permanently or hinged, which frames carry the beveled blades G, having beveled cutting-edges. Small rollers H are pivoted to the plates E. From the inner sides of the side plates, C, tracks J project short distances from the top edges, and on said tracks the rollers H can run, the said tracks forming a support for the belt, and thus preventing the upper upwardly-projecting parts of the belt from sagging. Tracks K project from the inner sides of the plates C along the bottom edges and track-bars L project from the plates C short distances above the tracks K, so that the rollers H can run between the said tracks K and the track-bars L, thus causing the lower part

of the belt and the knives or blades thereon to move parallel with the bottom edges of the side plates. On the shaft M, on which the upper pulley, B, is mounted, is also mounted a pulley, N, over which a belt, O, passes, also passed over a pulley, P, on a driving-shaft, Q. On the shaft R of the lower pulley, B', a belt-pulley, S, is mounted, over which is passed the belt T, also passed over a pulley, U, on the shaft Q.

The hides are placed on a carriage or slide, a, at the top of an inclined board or platform, b, parallel with the inclined parts of the belt, and on the said inclined board b an inclined plate, W, is held, which can be moved toward or from the lower part of the belt A by means of an angle treadle or foot-lever, h. The inclined board W is pressed in the direction from the lower part of the belt A by a spring, d.

The operation is as follows: The top of the hide rests upon the slide a, the fleshy side of the hide facing the bottom part of the belt A. The hide is then shifted over the inclined plate W, and by pressing down the lever h the inclined plate W and the hide on the same are moved toward the bottom part of the belt A to such an extent that the cutting-edges of the blades G can shave the flesh off the skin or hide. The skin is held against the knives until a strip the width of which is equal to the width of the knives has been thoroughly scraped and cleaned. Then the hide is shifted and another strip cleaned, and so on.

A greater or less number of knives or scrapers may be secured on the belt. The knives can easily be cleaned or sharpened.

In place of knives or scrapers, stones may be used, so as to adapt the machine for use as a scouring-machine. By changing the cutters or tools the machine may be used for different purposes, the main elements always remaining the same.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

In a hide-fleshing machine, the combination, with two pulleys, of an endless belt passed over them, plates on the belt, rollers on the side edges of the plates, knives on the plates, the side plates, C, the tracks J on the inner edges of the plates C, on the top edges of which

tracks J the rollers of the upwardly-moving plates run, and the tracks K and L on the inner sides of the side plates, C, at the lower edge, between which tracks K and L the rollers
5 of the downwardly-projecting plates run, whereby the edges of the knives are held the same distance from the platform on which the hide has passed during the entire downward movement of the knives, and whereby the

plates carrying the knives are supported during their upward movement and the strain is removed from the belt, substantially as herein shown and described.

ARCHIBALD W. REID.

Witnesses:

FREDERICK H. BEACH,
BYRON STILLMAN.