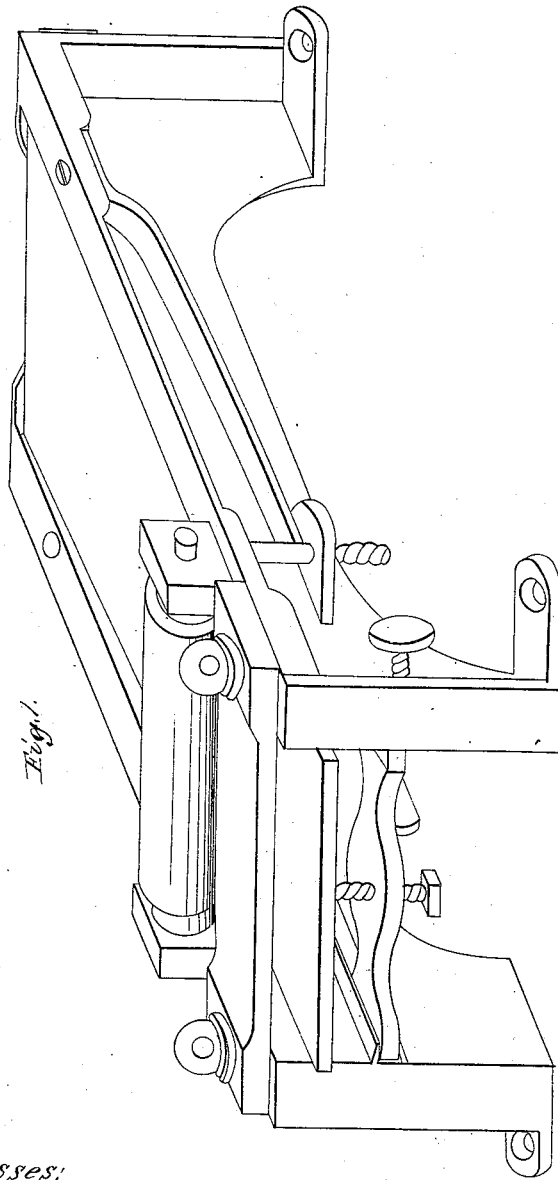


2 Sheets - Sheet 1.

*W. S. Marsh,
Splitting Leather*

N^o 48,964.

Patented July 25, 1865.



*Witnesses:
Thomas G. L.
Jm. L. Smith*

*Inventor:
W^m S. Marsh*

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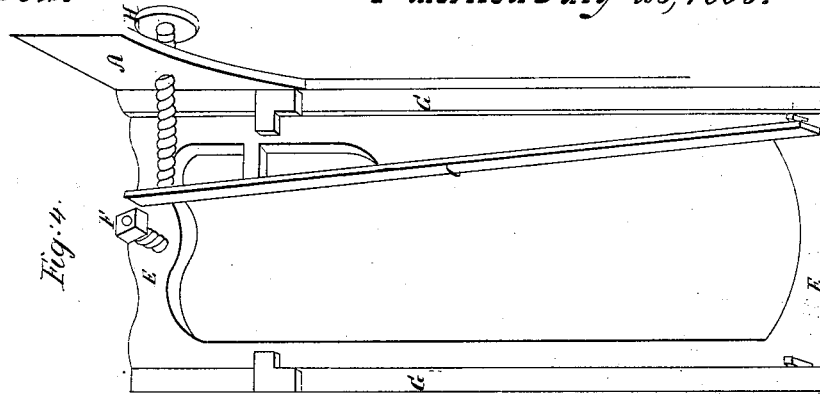


Fig. 2.

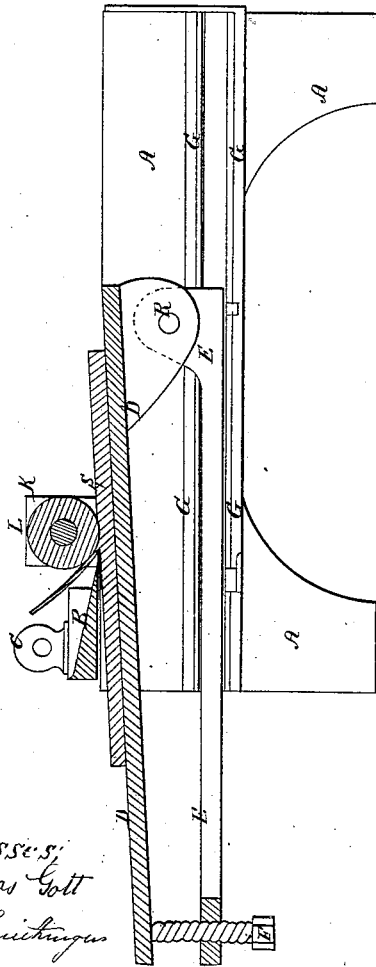
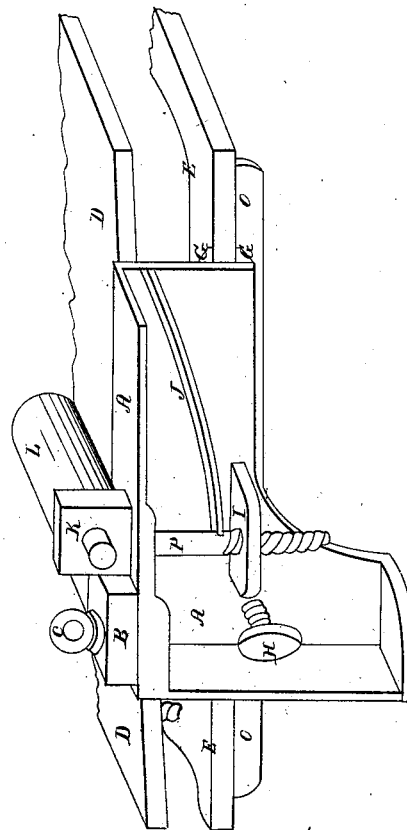


Fig. 3.



Witnesses:
Thomas Cott
M. L. Smith

Inventor:
Wm S Marsh

UNITED STATES PATENT OFFICE.

WM. S. MARSH, OF INDIANAPOLIS, INDIANA.

IMPROVED SKIVING AND SPLITTING MACHINE.

Specification forming part of Letters Patent No. **48,964**, dated July 25, 1865.

To all whom it may concern:

Be it known that I, WM. S. MARSH, of Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Machine for Skiving and Splitting Leather Straps, called "Eureka Skiving and Splitting Knife;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view, and Figs. 2, 3, and 4 sections, in which—

A A A A, &c., is the frame; B, the knife; C C, the thumb-screws; D, the sliding plate; E, the movable carriage, which slides in the slides G G; H, the set-screw; J, the spring; K, the nut of the rod P; L, the roller; N N, the feet; O, the check-rib; R, the pivot-pin, and S the leather strap.

The nature of my invention consists in constructing a frame-work, A A A A, &c., supplied with feet N N N N, by which the frame is to be screwed to the bench. I attach slides G G to the inside of this frame and place my carriage in them. Connected with this carriage, and fastened to it in the rear, and by means of a pivot-pin, R, is the slide-plate D, which is inclined, as shown on drawings. In front of the carriage is the set-screw F, which passes through the carriage E to the under side of the inclined sliding plate D. I place my knife B on top of the frame A, &c., and fasten it down by means of the thumb-screws C C. Then I place my roller L immediately before and right over the edge of the knife B, and fasten it down by means of iron rods P P working through nuts K K. I then place my springs J J on the outside of the frame in such a manner as to hold the rods on the place, while they still give them some play, so as to permit the roller L to adjust itself to the thickness of the strap on the sliding plate D. I attach the check-rib O to the under side of the carriage E diagonally, as shown in Fig. 4, and place my set-screw H in such a way as to work upon that check-rib O. Thereby I construct a machine which will skive and split leather straps of any desired size, thickness, or taper.

Operation: By means of the set-screw F, which passes through the carriage E to the under side of the slide-plate D, I can so set the slide-plate D as to skive a strap with either a long and slim or short and thick taper. If a feather-edge is desired, one end of the strap is placed to the farther end of the slide-plate D, (opposite the knife,) and if a thicker edge is wanted the strap must be dropped back toward the knife to correspond with the space between the frame-top and slide-plate D. By raising the set-screw F, I get a long and gradual taper; by lowering the same a short and thick one. The strap must be held firmly down upon the slide-plate D and, together with it, drawn through the adjustable roller L and knife B. For splitting straps I move the slide-plate D so far out of the frame in front as to get the space between the knife B and slide-plate D equal to the desired thickness of the leather strap. I then set the set-screw H so as to bear against the check-rib O, thereby preventing the slide-plate D from passing farther out of the frame than desired, shoving the slide-plate back again, and placing the strap upon the slide-plate D and bringing it back to its place. I can split a strap at the thickness desired by drawing it through the roller L and knife B. In this manner, keeping the set-screw H at its place, I can split any number of straps of precisely the same thickness.

I do not claim the knife B nor the roller L; but

What I do claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. The inclined slide-plate D, the adjustable roller L, (placed over the knife,) with its boxes K K and rods P P, the springs J J, all in connection with the knife B.

2. The check-rib O and set-screw H, all arranged and operating substantially as and for the purpose set forth.

WM. S. MARSH.

Witnesses:

THOMAS GOTT,
JNO. L. SMITHMYER.