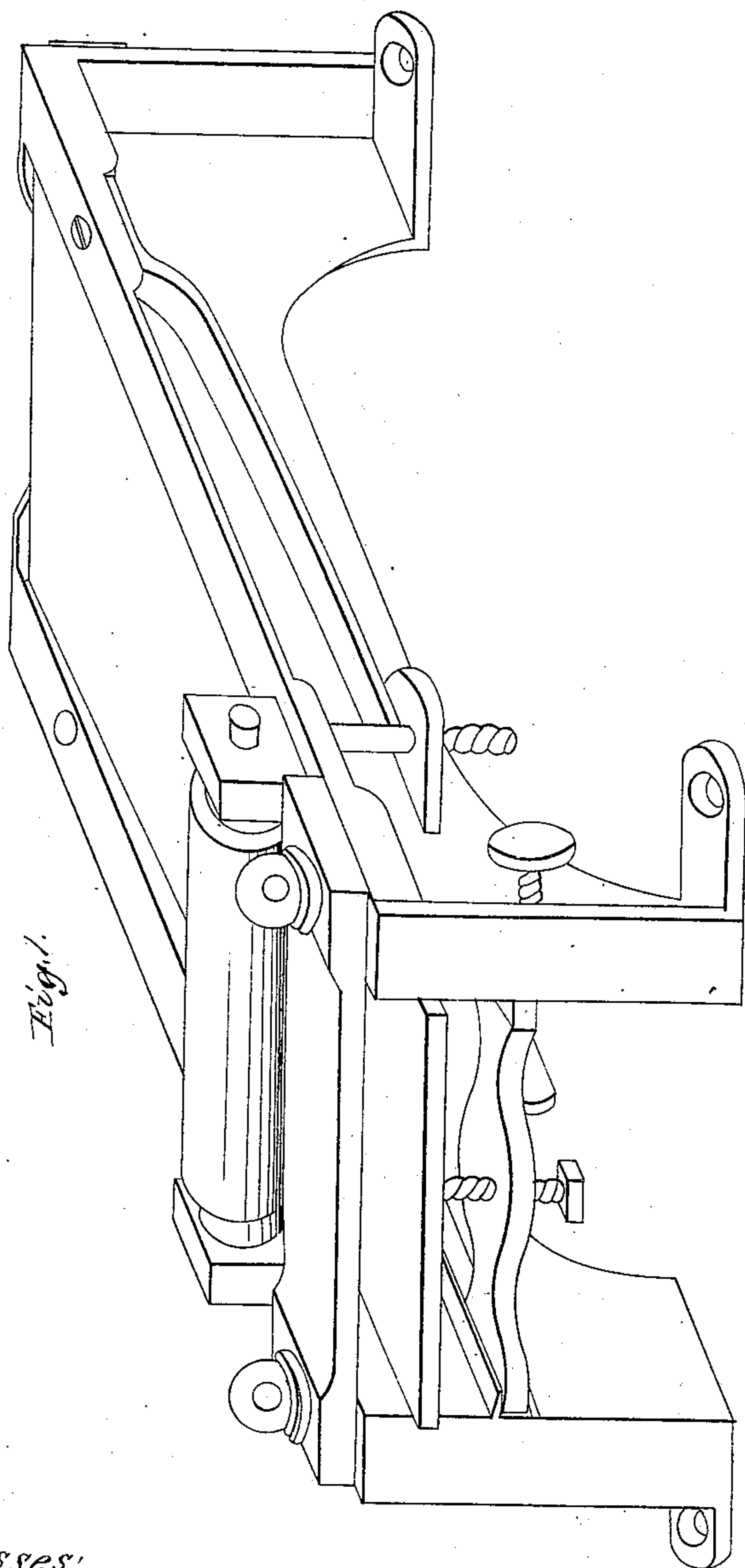


2, Sheets - Sheet 1

*W. S. Marsh,
Splitting Leather*

N^o 48,964.

Patented July 25, 1865.



*Witnesses;
Thomas C. Gitt.
Jm. L. Smithmeyer*

*Inventor;
W^m S Marsh*

W. S. Marsh

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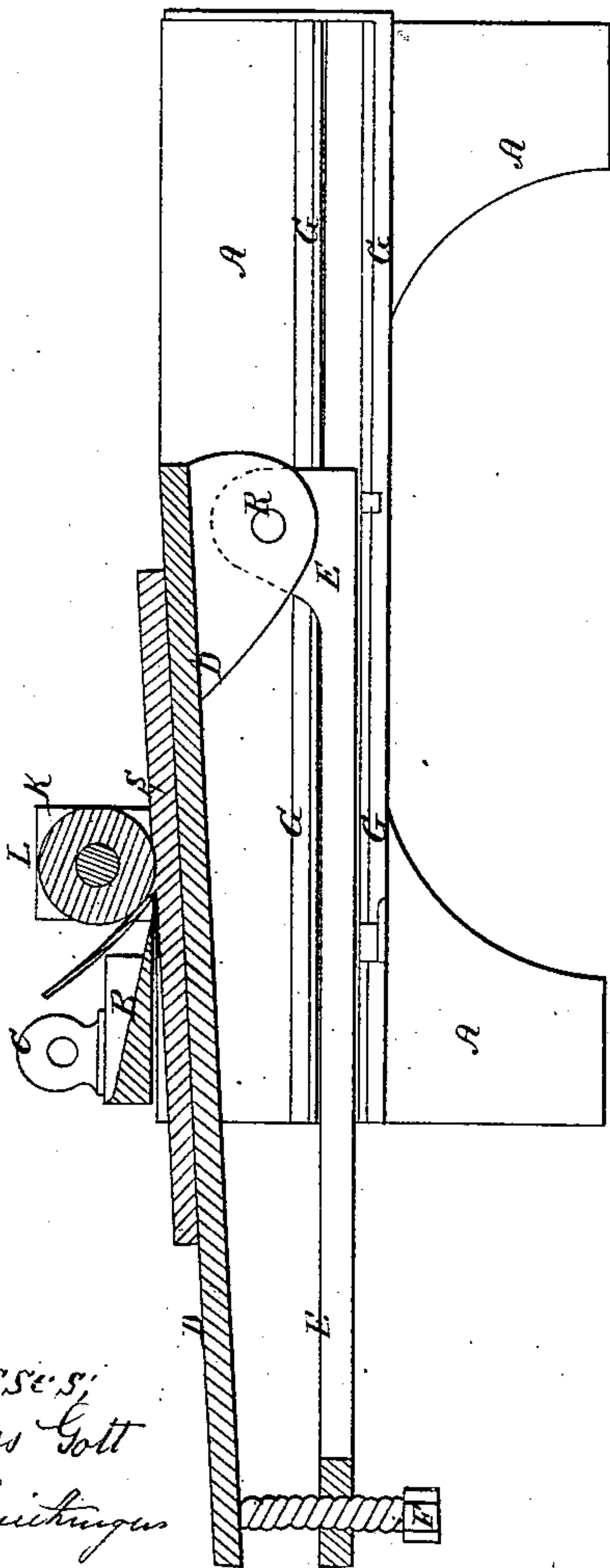
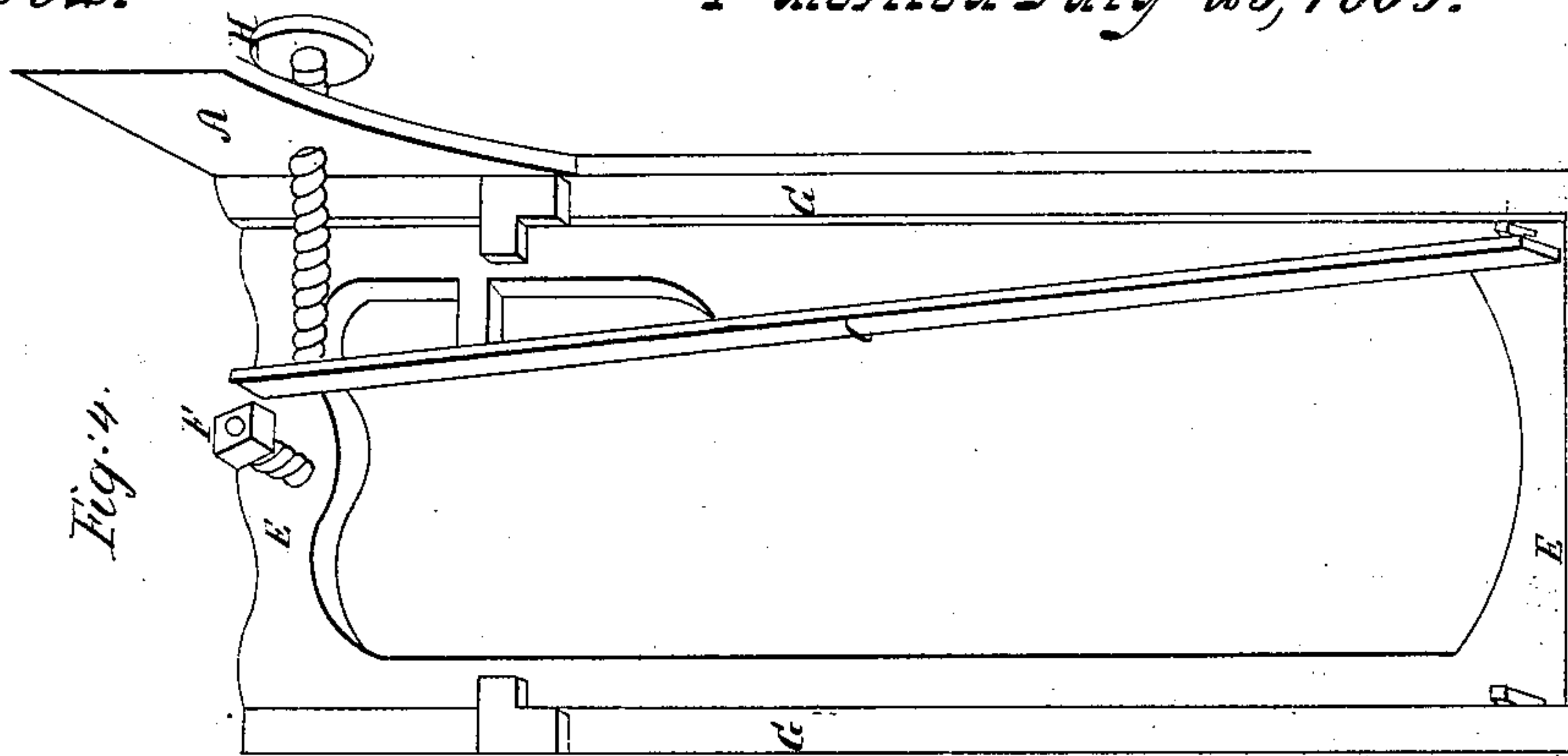
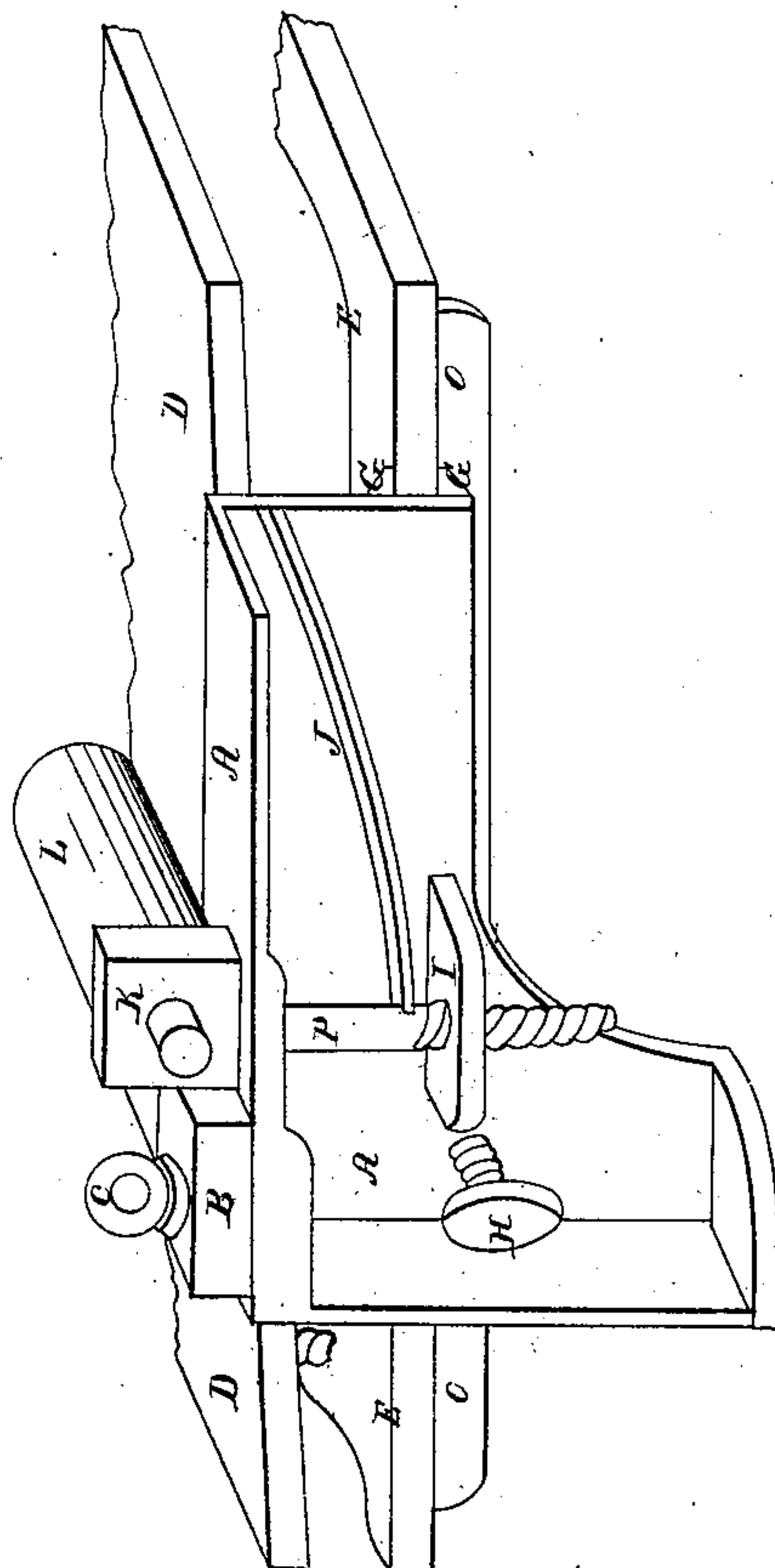


Fig. 3.



Witnesses:
Thomas Gott
Mo. L. Swickard

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.