(No Model.)

W. S. SEYMOUR.

CUTTING DEVICE.

No. 284,496. Patented Sept. 4, 1883.

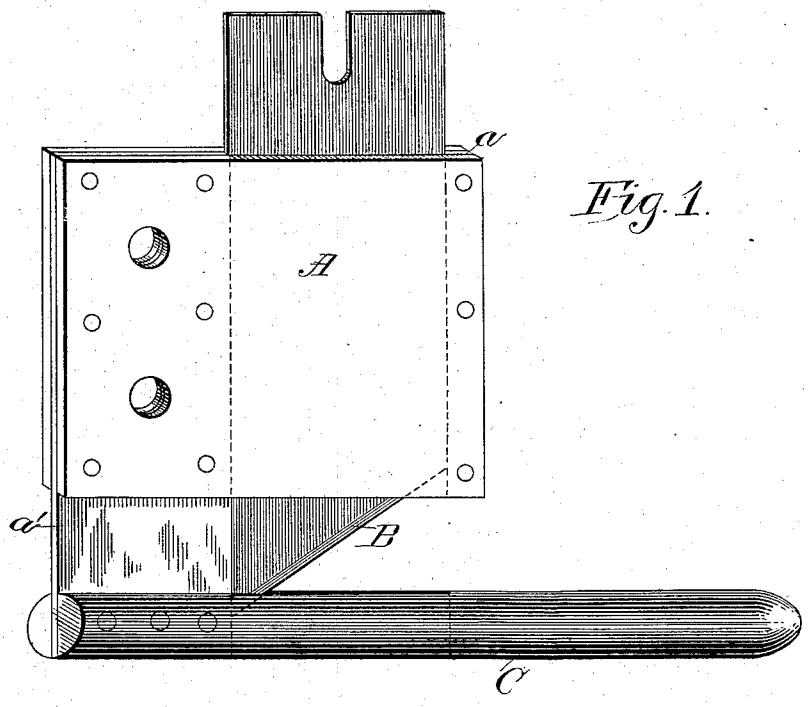


Fig. 1.

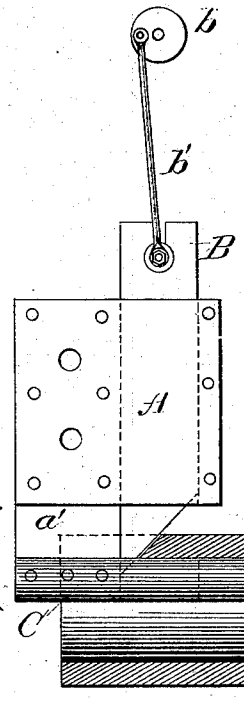


Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

WILL S. SEYMOUR, OF CHICAGO, ILLINOIS, ASSIGNOR TO HENRY C. BRADLEY, OF SAME PLACE.

CUTTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 284,496, dated September 4, 1883.

Application filed March 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILL S. SEYMOUR, of Chicago, in the county of Cook, and in the State of Illinois, have invented certain new and useful Improvements in Cutting Devices; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to instruments for cutting cloth, paper, &c., and will be fully described hereinafter.

In the drawings, Figure 1 is a perspective view of my device, and Fig. 2 is a side view of the same.

A is the frame, in which the knife B is reciprocated vertically by a crank, *b*, and pitman *b'*, or by any other suitable means.

The frame A is preferably composed of two metal plates, separated at one edge by a vertical boss, *a*, and at the other by a strap, *a'*, that depends down from between the plates to enter the end of a slot in a mandrel, C, in which it is secured by suitable rivets. This slot is in length equal to the combined width of the knife B and strap *a'*, so that there is room between the strap and inner termination of the slot for the cutting-edge of the knife to play in.

By regulating the length of the pitman *b'* or by providing the knife with a suitable stop, I limit the play of the knife in such a manner that its point may never be entirely withdrawn from the slot in the mandrel nor its heel project from between the plates, to the ends, first, that the point may not be liable to strike the mandrel on its outside should the knife become loose in its guides or bent, and, second, that the heel may not become bruised or upset so as to clog.

I may give any angle to the cutting-edge of the knife that may be desired, but I prefer that shown in the drawings, as, in my opinion, an edge made on that angle is less easily dulled than another.

I have shown my device in such a position that the cut of the knife will be downward upon the material; but I may reverse its position, so that the knife will act from below, or I may arrange it to cut horizontally without departing from the spirit of my invention, and instead of a straight mandrel I may use one that is bent at any desired angle, according to the work to be done.

When my device is to be used for cutting cylinders open—as, for instance, steam-pipe covering—I use a mandrel which is round in cross-section; but when it is to be used for cutting sheets or blocks I may vary the shape of the mandrel accordingly.

Instead of slotting the mandrel, I may make it of wood or other soft substance that the knife may cut into after passing through the material.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a cutting device, a frame carrying a reciprocating knife, and a mandrel for holding the material up to the knife, as set forth.

2. The frame A, in combination with strap *a'*, slotted mandrel, and reciprocating knife, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, on this 13th day of January, 1883, in the presence of two witnesses.

WILL S. SEYMOUR.

Witnesses:
H. C. BRADLEY,
ED. J. WOODWARD.