

(No Model.)

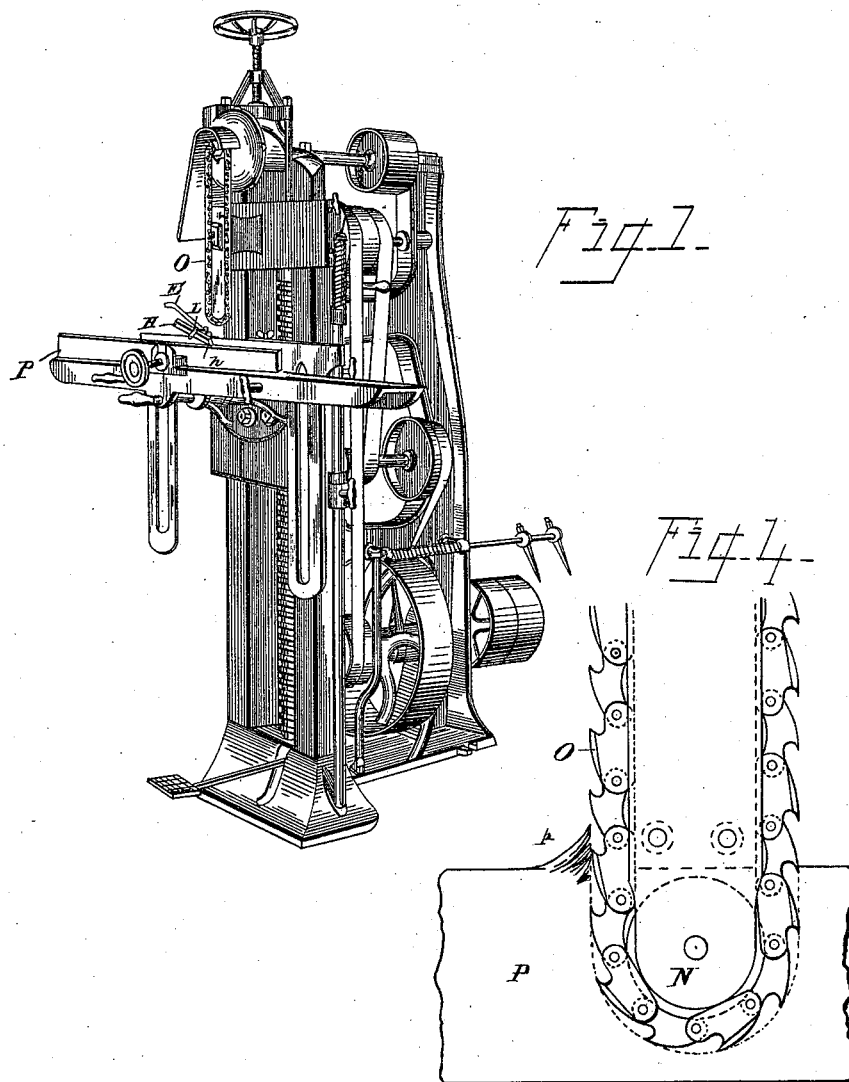
2 Sheets—Sheet 1.

C. S. MOSELEY.

PROTECTOR FOR ENDLESS CHAIN CUTTER MORTISING MACHINES.

No. 524,045.

Patented Aug. 7, 1894.



Attest:
Arthur A. Ort.
J. W. Weaver.

Inventor:
Charles S. Moseley By
M. M. Cady his atty.

(No Model.)

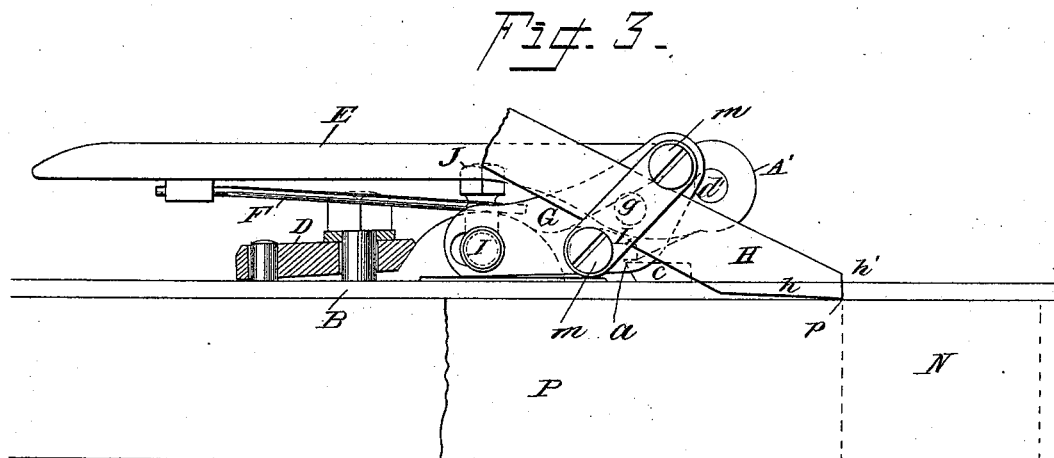
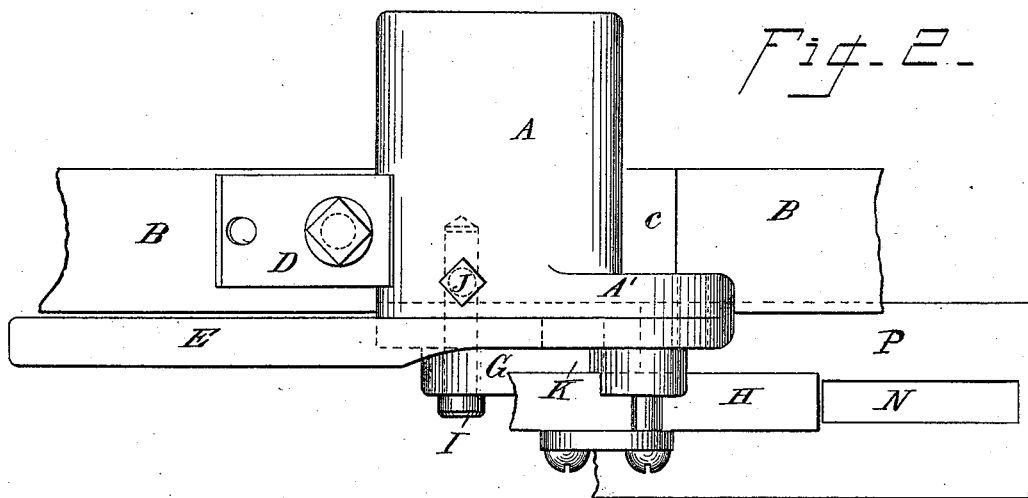
2 Sheets—Sheet 2.

C. S. MOSELEY.

PROTECTOR FOR ENDLESS CHAIN CUTTER MORTISING MACHINES.

No. 524,045.

Patented Aug. 7, 1894.



Attest:

Arthur H. Oak.
Jeweler.

Inventor:

Charles S. Moseley by
M. M. Cady his atty

UNITED STATES PATENT OFFICE.

CHARLES S. MOSELEY, OF DUBUQUE, IOWA, ASSIGNOR TO THE DUBUQUE
SPECIALTY MACHINE WORKS, OF SAME PLACE.

PROTECTOR FOR ENDLESS-CHAIN-CUTTER MORTISING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 524,045, dated August 7, 1894.

Application filed February 24, 1893. Serial No. 463,599. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. MOSELEY, a citizen of the United States, residing at Dubuque, in the county of Dubuque and State of Iowa, have invented certain new and useful Improvements in Protectors for Endless-Chain-Cutter Mortising-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

In the use of endless chain cutter mortising machines there has been a serious drawback in their successful operation, from the fact that the endless chain cutters in their upward movement would tear and break the edge of one end of the mortise and render it imperfect. To prevent this and to leave the mortise with square edges is the object of my invention.

For the better comprehension of the manner in which I accomplish my object, attention is called to the following specification and drawings forming a part hereof, and in which—

Figure 1 shows a perspective of my device in position and the chain cutter about to enter the mortise; Fig. 2, a plan view; Fig. 3, an upright side view; Fig. 4, a portion of the chain in a section of the mortise and showing how the chain cutters injure the edge of the mortise.

A is the base of my device, which is flat upon the under side, with a groove, *a* running its entire length upon one side. This base A is adjustably secured to the top of the rear of the table B of the mortising machine by the clamp D. The object of adjustably securing the base to the table is to adapt the device to be used when mortising woods of different thicknesses. Integral with the base A is cast a fulcrumed arm A'. A lever E is pivoted at one end to the arm A' by the pivot *d'*, and is supplied upon its under side with a spring F, which engages with the base A.

The holder G in which the protector H is secured is loosely pivoted to the base A by the pivot I, which pivot is held in the base A by the set screw J. This holder G is also pivoted at its upper end to the lever E by the

pivot *g* a short space back and below the pivot *d'*. By pivoting the holder G at *g* a little below the pivot *d'* and also loosely pivoting it at I, it will be readily seen that when the lever E is released the protector H will be slightly drawn back and up from the edge of the mortise and out of the way of the endless chain cutters. The holder G is recessed at K so as to hold more firmly the protector H.

The protector H is preferably of wood and somewhat wider than the mortise to be cut. It is also beveled off at *h* and *h'* in order that when in use and pressed down upon the material to be mortised, it will form a straight line with the end of the mortise. The protector H is fastened into the recess K by a strap L secured to the holder G by the screws *m. m.*

The manner of operating my device is as follows: The base A is placed on the top of the table B with its groove *a* under the clamp *c*, then moved out or in till the end *h'* of the protector H is in line with the chain cutter O, when the base A is firmly secured to table B by screwing down the clamp D. The operator then grasps the material P to be mortised, with his right hand a little to the right of the mortise and places his left hand upon the lever E. The pressing down upon the lever E, as shown in Fig. 3 will force the protector H down firmly upon the material P and firmly hold it at the edge of the mortise N so that the endless chain cutters on their upward movement cannot tear out or disturb the edge of the mortise N at *p*, whereas if there be nothing to protect the edge of the mortise the cutters will tear and split the material at the edge of the mortise, as shown in Fig. 4. When the left hand is removed from the lever E, the spring F will raise said lever and release the protector H, when the material P is removed or advanced for another mortise.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an endless chain cutter mortising machine a mortise protector, consisting of a base adjustably secured to a table of the mortise machine and a lever, in combination with a holder for the protector and said protector,

whereby pressure can be applied, at will, to the edge of the mortise to prevent its being torn by the upward movement of the chain cutters, as and for the purposes set forth.

- 5 2. In an endless chain cutter mortising machine a mortise protector having its holder pivoted to its lever below the pivot of said lever and also loosely pivoted to its base, and
10 backward and upward from the edge of the

mortise when the lever is released, as and for the purposes described.

In witness whereof I have hereunto affixed my hand, in presence of two witnesses, this 31st day of January, A. D. 1893.

CHARLES S. MOSELEY.

Witnesses:

MONROE M. CADY,
J. C. WEAVER.