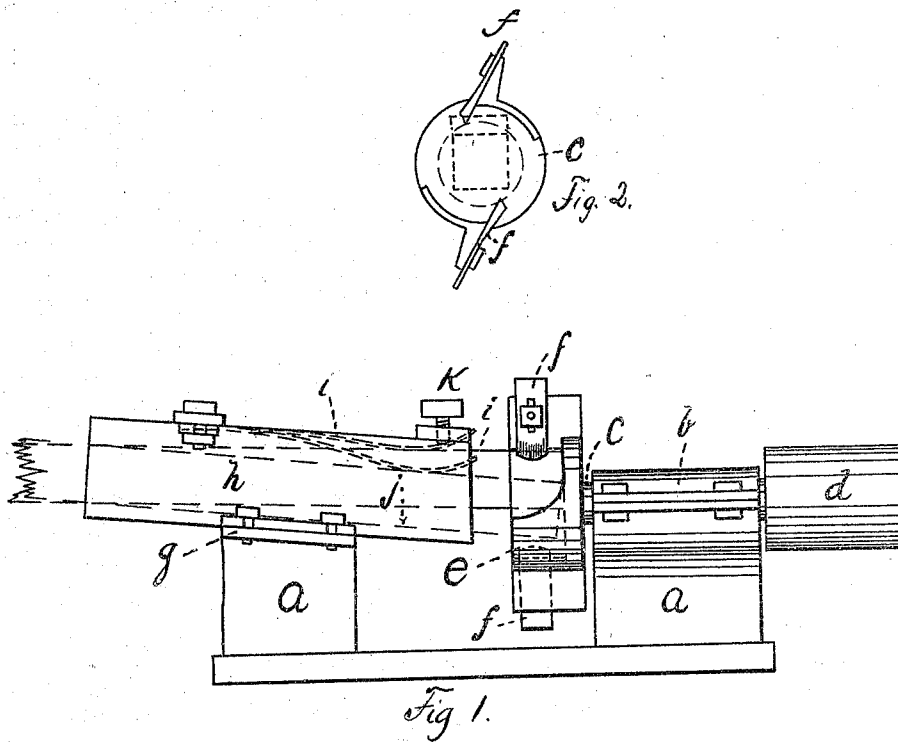


C. E. MCGREGORY

Machines for Notching Shingle-Bands.

No. 142,033.

Patented August 19, 1873.



Witness
J. A. Seary
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Inventor
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UNITED STATES PATENT OFFICE.

CHARLES E. MCGREGORY, OF EAST CORINTH, MAINE.

IMPROVEMENT IN MACHINES FOR NOTCHING SHINGLE-BANDS.

Specification forming part of Letters Patent No. **142,033**, dated August 19, 1873; application filed May 22, 1873.

To all whom it may concern:

Be it known that I, CHARLES E. MCGREGORY, of East Corinth, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Machines for Notching Shingle-Bands; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 shows a side view; Fig. 2, a front view of cutter-head.

Same letters show like parts.

My invention is intended for notching the ends of shingle-binders to prepare them to receive and hold the rope or withe which holds the bundle together. This is now done either wholly or partially by hand, but the operation is laborious and the work is imperfectly done.

My device performs its office in a rapid and perfect manner, making a smooth curved groove in the end of the binder of any depth required, so that the cord used for tying up the bundle is completely protected from wear.

My machine will be understood by reference to the drawing.

At *a* is the frame of the machine, having a bearing, *b*, in which is an arbor, *c*, revolved by means of a pulley, *d*, and carrying a cutter-head, *e*. This cutter-head is recessed, (see dotted lines, Fig. 2,) and is provided with knives *f f*, their cutting-edges formed to make a groove of the required shape. They are attached to the rim of the cutter-head, and are placed as far from the bottom of the recess as the notch is to be distant from the end of the

binder. To the frame *a* at *g* is attached a trough or guide, *h*, through which the binder is presented to the cutters. Its upper side consists of a spring, *i*, curved as shown in dotted lines, the lower point being below the cutting line of the knives. The bottom of the trough *j*, moreover, is above this cutting line, so that when the binder is inserted it may be pushed into the recess of the head without coming in contact with the knives, they revolving freely around it. In order that they may act the end held in the hand is pushed down, raising the opposite end and the spring *i*, and bringing the end which is in the recess within the cutting line of the knives. Removing the pressure, the spring *i* returns it to the center of the head free from the knives, and it can then be removed. The depth of the groove may be determined by a thumb-screw, *k*, regulating the upward motion of the spring within certain limits. The sides of the guide or trough may also be made adjustable to different sizes of binders. The groove is of course made in the upper side of the binder, as common.

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

A notching-machine in which the stick is presented to the cutters by being first inserted within a recessed cutter-head, and afterward presented vertically to the action of the knives or cutters, substantially in the manner herein set forth and specified.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of May, 1873.

CHARLES E. MCGREGORY.

Witnesses:

WM. FRANKLIN SEAVEY,
W. E. BROWN.