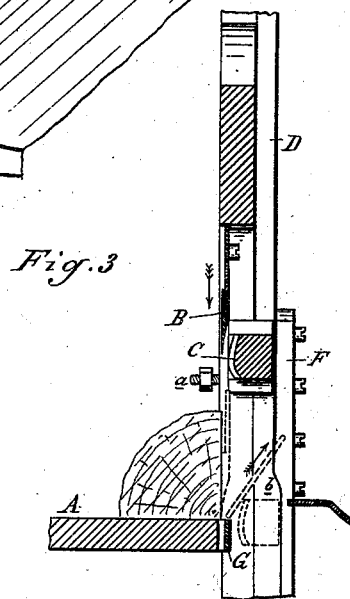
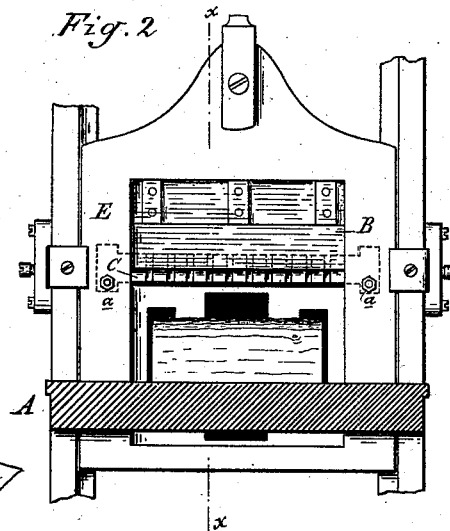
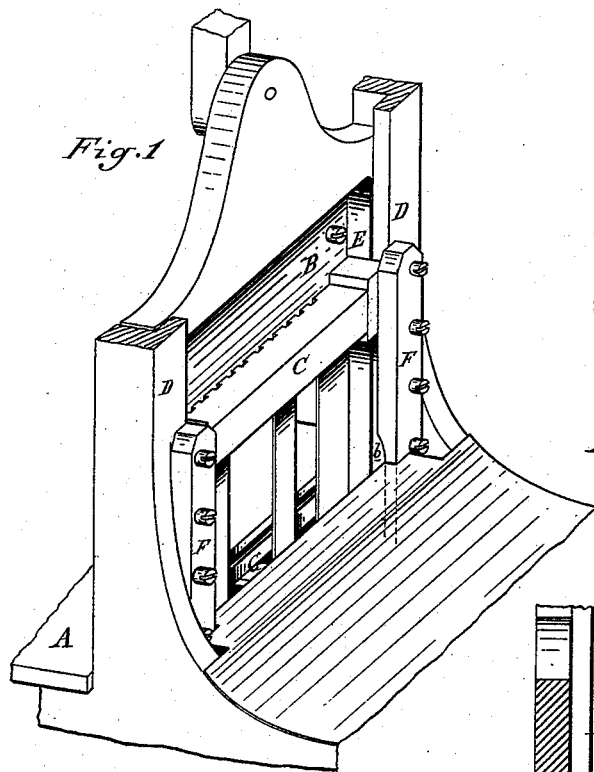


W. GOLDIE.
Shingle-Cutting Machine.

No. 219,086.

Patented Sept. 2, 1879.



Attest:
A. Barthel
Thos. S. Day

Inventor:
Wm Goldie
By Atty
Geo S. Sprague

UNITED STATES PATENT OFFICE.

WILLIAM GOLDIE, OF FENTON, MICHIGAN.

IMPROVEMENT IN SHINGLE-CUTTING MACHINES.

Specification forming part of Letters Patent No. **219,086**, dated September 2, 1879; application filed January 24, 1879.

To all whom it may concern:

Be it known that I, WILLIAM GOLDIE, of Fenton, in the county of Genesee and State of Michigan, have invented an Improvement in Shingle-Cutting Machines, of which the following is a specification.

The nature of my invention relates to new and useful improvements in that class of machines by means of which shingles and veneers are cut successively from the side of a bolt, while compression is being employed against the side of the bolt from which the cut is being taken, to prevent the shingle or veneer from checking under the operation of the knife.

The invention is more especially designed as an improvement upon a machine for a similar purpose for which I made application for Letters Patent by my petition dated October 15, 1878, in which a roller of peculiar construction is described and employed for such compression, and which is combined with certain other devices, by means of which, as soon as the cut is perfected, the shingle or veneer is relieved from the compression and discharged or ejected from the machine.

The present invention consists in substituting for said roller and its connections a bar in rear of the knife, and attached to the gate or frame in such manner as to partake of its reciprocating motion, and when the cut is completed the bar is so arranged that the shingle compressed between the front of said bar and the rear side of the knife, in expanding, will force the bar into recesses prepared in the cheeks or jambs of the machine, so that the shingle, being relieved of the pressure, will be thrown from the machine.

In the drawings, Figure 1 is a rear perspective view of my improved machine, showing the knife and bar at the commencement of the downward and cutting stroke. Fig. 2 is a front elevation of the knife, gate, and bar. Fig. 3 is a vertical cross-section on the line *xx* in Fig. 2, showing the relative positions of the knife, bar, and cutting resistance-bar.

In the accompanying drawings, which form a part of this specification, A represents the table upon which the bolts are placed and one face presented to the knife, with the upper edge of said bolt under the knife B, and resting against the front of the pressure-bar C. This bar is secured to the knife-gate, in rear of the knife, by means of the bolts and nuts *a*, and the bar projects below the edge of the knife, to compress the timber a little in advance of the cut.

Attached and secured to the ways or cheeks D, between which the knife-gate E reciprocates, are the bearing-plates F, provided at their lower ends with recesses *b*, so that when the knife has completed its cut the spring of the compressed shingle between the knife and bar will force the bar rearward into such recesses just as the cut is completed, when, the compression being relieved, the shingle is thrown out of the machine by impact of its edge against the upper edge of the cutting resistance-bar G in the rapid motion of the knife-gate. The plates F are secured by the bolts *b*, and by them the amount of compression may be regulated as required.

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

1. In a shingle or veneer cutting machine, the combination, with the cutting-knife, of a pressure-bar in rear of the same, having a movement away from the knife when the cut is completed, substantially as and for the purpose set forth.

2. In a shingle or veneer cutting machine, the combination, with the cutting-knife, of a pressure-bar in rear of the knife, and partly in advance of the edge of the same, and having a movement away from the knife when the cut is completed, and means for adjusting said pressure-bar, substantially as and for the purpose set forth.

WM. GOLDIE.

Witnesses:

H. S. SPRAGUE,
THEO. S. DAY.