2 Sheets—Sheet 1.

A. CUNNINGHAM.

Clapboard Machine.

No. 230,110. **Patented July 20, 1880.**

Fig. 1.

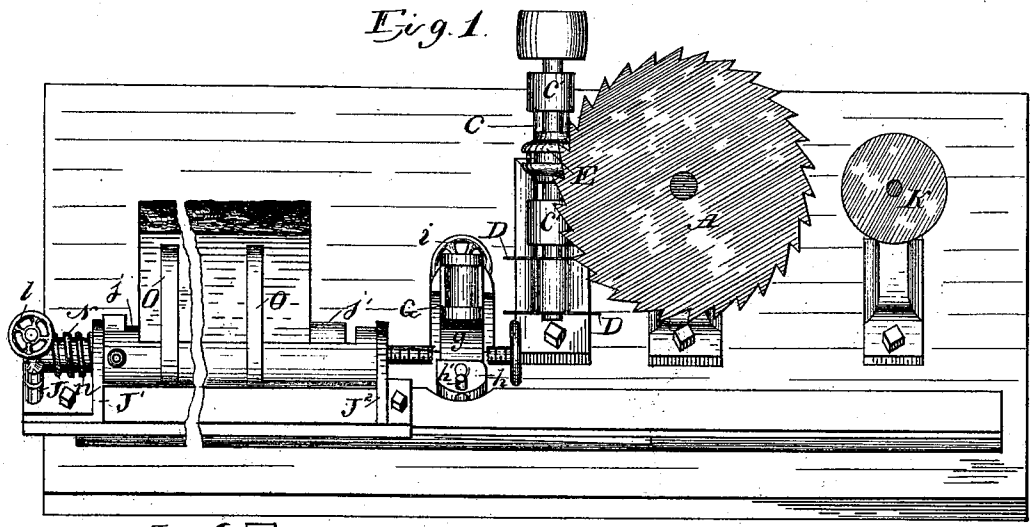


Fig 2.

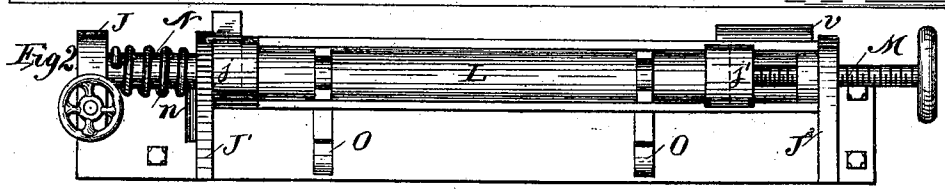
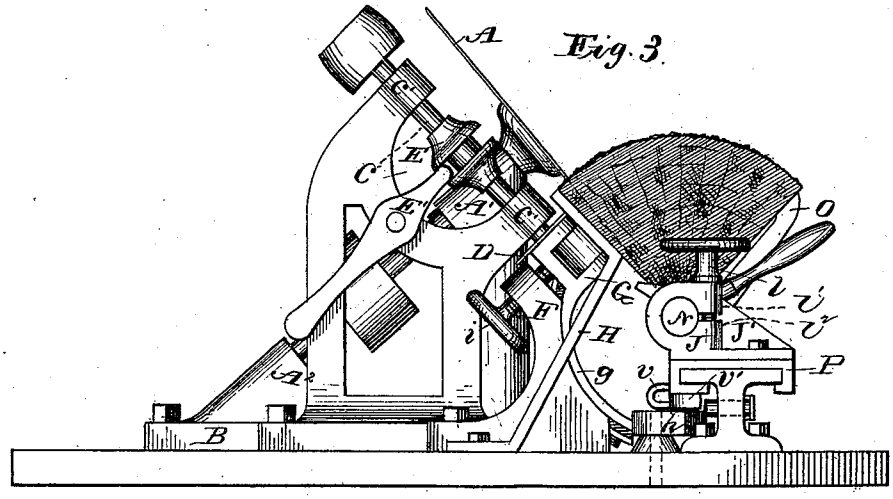


Fig. 3.



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2 Sheets—Sheet 2.

A. CUNNINGHAM.

Clapboard Machine.

No. 230,110. Patented July 20, 1880.

Fig. 4.

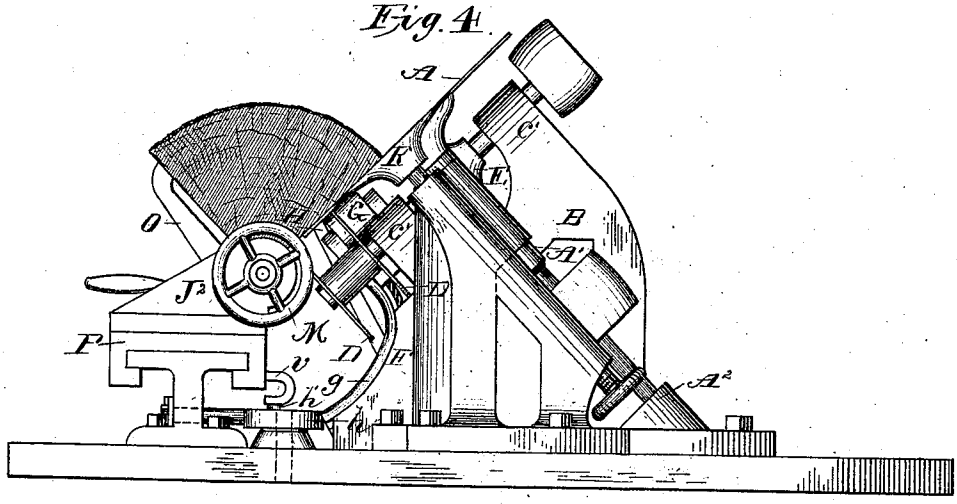


Fig. 5.

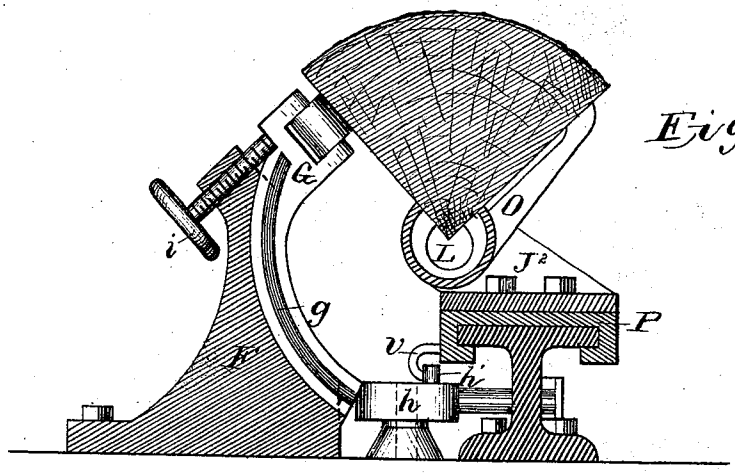
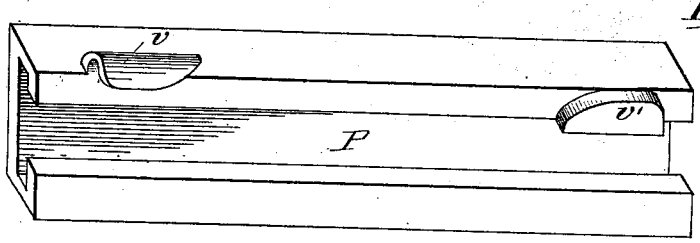


Fig. 6.



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UNITED STATES PATENT OFFICE.

ALBERT CUNNINGHAM, OF MILWAUKEE, WISCONSIN.

CLAPBOARD-MACHINE.

SPECIFICATION forming part of Letters Patent No. 230,110, dated July 20, 1880.

Application filed November 20, 1879.

To all whom it may concern:

Be it known that I, ALBERT CUNNINGHAM, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Clapboard or Siding Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to devices for dividing logs into sidings or clapboards, and will be hereinafter fully described.

In the drawings, Figure 1 is a plan; Fig. 2, a plan of the holder and carriage. Fig. 3 is a front, and Fig. 4 a rear end view. Fig. 5 is a cross-section of the holder and gage, and Fig. 6 a bottom view of the holder-carriage.

A is the main saw, the arbor of which revolves in bearings A' A^2 in a frame, B, and sustains it at an inclination of about forty-five degrees.

Just in front of the saw A, I arrange the arbor C of the edging-saws D D in bearings C' C' at right angles to those of the main saw. The arbor C slides loosely in its bearings, has the edging-saws D D secured to its lower end, a pulley at its opposite end, and between the bearings C' C' a grooved collar, E, into which one end of an adjusting-lever, E', fits loosely.

Just in advance of the edging-saws I place a bracket, F, having a groove in its face to accommodate the curved stem *g* of the gage G, which stem projects down beyond the base of the bracket and rests against a pivoted cam-stop, *h*, from which a stud, *h'*, projects. This cam is rounded on one side, and a spring-stud which projects through the track-base bears against it to prevent it from turning too easily.

A set-screw, *i*, which has a bearing in the upper end of the bracket and against the under side of the gage, serves as a means for adjusting it to determine the thickness of the siding desired.

An adjustable spreader, K, on the opposite side of the saw A, serves as a support to hold the cant out of contact and keep it from crowding the saw. I also provide a rest, H, for the cant before it reaches the saw.

The cant holder or carriage may be made to move on any suitable track or way, and its base is provided on its side next to the saws with inclines *v v'*, one at each end, for engagement with the stud *h'* of the stop *h*. It is also provided with brackets J J' J^2, which form the bearings for the journals of a slotted tube or holder, L, in which the heart-edge of a cant or quarter is clamped by the curved knife-edges *j j'*, one of which, *j*, is stationary, while the other slides in the tube L and is operated by a screw-shaft, M.

The tube L is revolved in the direction of the saws by means of a spring, *n*, which is coiled about its journal N between the brackets J J'. The upper part of the bearing in bracket J expands from the lower part, forming jaws l' l'', and is locked by a binding-screw, *l*, to clamp the journal and secure the cant-holder in any desired position.

In sawing timber from which the heart has been hollowed out, for the slotted tube I may substitute a solid cylinder or an entire tube, on which the cant might be placed so that its hollow would fit over it. In either case I would provide arms O O for the face of the cant opposite the saw to rest upon, and these may carry dogs for seizing it.

Operation: The cant having been secured in the holder and the jaws l' l'' unclamped, the cant will be carried by the holder over against the rest H and in front of the saws. An advance of the cant will now carry its front end upon the guide G, which has previously been set at the proper height with relation to the saw A to give the required thickness to the siding desired. The cant then passes onto the edging-saws D D, which groove it, and thence to the main saw A, each cut from which takes off a wedge-shaped strip in cross-section, since the edge of this saw points constantly to the center about which the cant revolves. After the cant has been carried beyond and off of the gage G the incline *v* on the base of the carriage strikes the stud *h'* and revolves the cam-stop *h*, which forces the gage up high enough to carry the cant clear of the saw A on its return until it is fully retracted, when an incline, *v'*, on the other end of the base throws the stud around and faces the thin side of the cam-stop to the stem *g*, which drops and allows the gage to fall into position for the next cut; and thus the cant will be sawed into sid-

ings, the machine automatically adjusting it for each cut.

By means of the clamp l' l'' the cant-holder may be controlled and the cant held in position for being trimmed, as is sometimes necessary before a perfect siding can be taken off.

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

1. In a siding-machine, the combination of a carriage, F, provided with mechanism for holding the cant and allowing it to be revolved about a center, and the gage G, constructed to support the cant in opposition to the force by which it is revolved for determining the thickness of the siding desired, the whole being arranged to permit the saw A to cut into the cant on a line or lines radiating from a point at or near its center of revolution, as and for the purpose described.

2. In a siding-machine, the combination of the gage G and the carriage and the described device on the carriage for raising the gage to carry the cant free of the saw on its return movement, and to drop it to allow the cant to assume the position proper for a fresh cut as the carriage is advanced, as described, and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of November, 1879.

ALBERT CUNNINGHAM.

Witnesses:

E. H. BOTTUM,

S. S. STOUT.