D. Bartholomew,

Clapboard Machine.

No. 3,165. Patented July 8, 1843.

Fig 2.

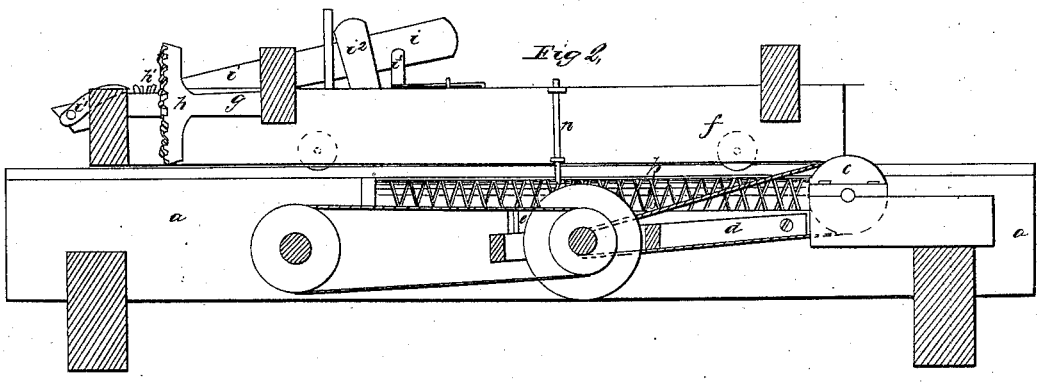


Fig 3.

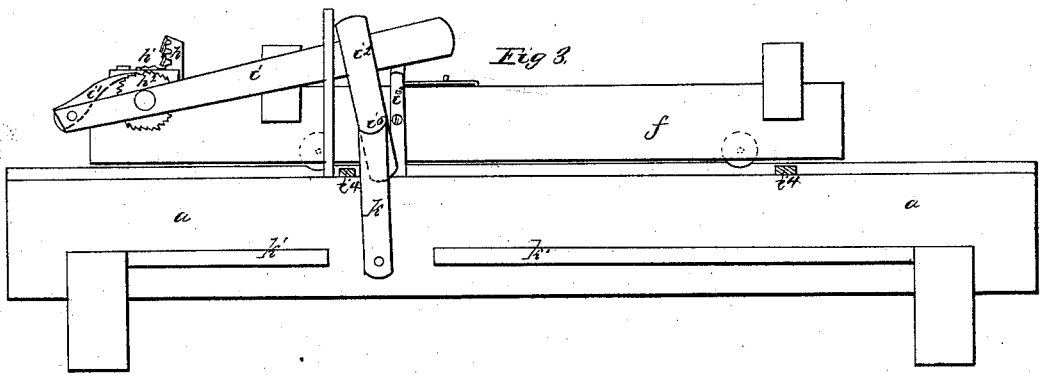
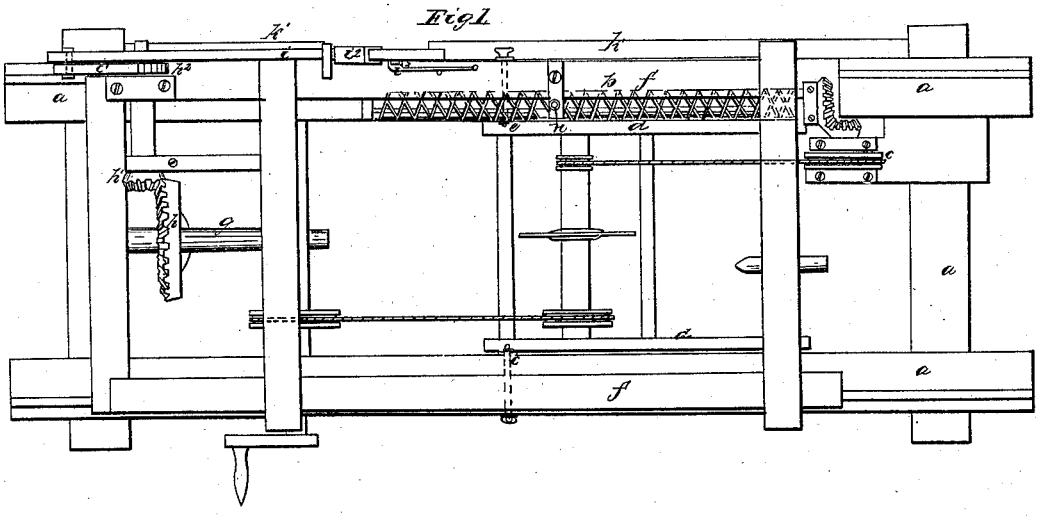


Fig 1.



UNITED STATES PATENT OFFICE.

DANIEL BARTHOLOMEW, OF WOLCOTT, VERMONT.

MACHINE FOR SAWING CLAPBOARDS.

Specification of Letters Patent No. 3,165, dated July 8, 1843.

To all whom it may concern:

Be it known that I, DANIEL BARTHOLOMEW, of Wolcott, in the county of Lamoille and State of Vermont, have invented a new and useful Improvement in the Clapboard-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which is a part of this specification, in which—

Figure 1 is a top plan; Fig. 2, a vertical section; Fig. 3, a side elevation.

The nature of my invention consists in the manner of feeding the saw, by means of a double reverse threaded screw; in setting the log; and in adjusting the saw to the size of the log; as hereinafter described.

An oblong frame (*a*) is formed, on which the ways that the carriage runs on are fixed; on one side of the frame a reverse threaded screw (*b*) is fixed parallel to the ways; on one end of said screw there is a bevel wheel that works into another bevel wheel standing at right angles to it, on the axle of which there is a pulley (*c*) from which a band passes to the shaft of the saw near the center, which is suspended on two arms (*d*) that are attached to the frame (*a*), near the pulley (*c*) above named, so as to be moved up and down; the extreme ends of said arms have curved irons attached to them at (*e*) in which there is a slot, through which, and the frame (*a*), a set screw passes, so as to fasten the saw at any elevation.

The carriage (*f*) is formed similar to many now in use, the log being centered in it, so as to revolve; on one of the mandrels (*g*) on which the log is suspended there is a bevel wheel (*h*) into which a pinion (*h'*) works, its shaft being at right angles to the mandrel and one end projecting beyond the outside of the carriage, on which a ratchet wheel (h^2) is fixed and outside of that is a lever (*i*); this lever has pawls (*i'*) attached to its short arm, which work into the ratchet wheel (h^2); and on its long arm there is an adjustable piece (i^2) extending downward that can be made longer or shorter so as to allow the lever a greater vibration, said piece (i^2) having a shoulder (i^5) on its outside, near its middle, of a semicircular form, which, as the carriage is moved along, strikes the concave end of a lever (*k*), the lower end of which is attached to the frame, so that the upper end can vibrate about the quarter of a circle; the lower end of piece (i^2) rests on a ledge on the frame marked (*k*) till the shoulder strikes the concave end of lever (*k*); this causes it to rise till (*k*) stands perpendicular when the lever (*i*) is held by a catch (i^3), that is forced forward by a spring; the lower end of this catch extends below the carriage, and when the saw has cut out of the log, the catch strikes a stud (i^4) on the frame and allows the lever (*i*) to fall, which, by means of the pawls, ratchet wheel, and gearing, turns the log the required distance; as the piece (i^2) is again brought into contact with lever (*k*), the same operation is repeated, of elevating the lever, which is again let fall by a stud on the frame at the other end. The saw is made to cut when the carriage is traveling in either direction. The carriage is moved by means of a follower (*n*) which is attached to it over the screw and which follows the threads from end to end; one of these threads is cut right handed from one end to the other, where it is connected with a left handed thread and run back in the opposite direction, crossing the first named thread at every revolution; by revolving this screw in one direction the follower travels back and forth, feeding the log up to the saw as required.

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

The method of raising the lever (*i*) for setting the saw, by means of the lever (*k*), constructed and arranged as herein set forth.

DANIEL BARTHOLOMEW.

Witnesses:

J. J. GREENOUGH,

JOHN HITE.