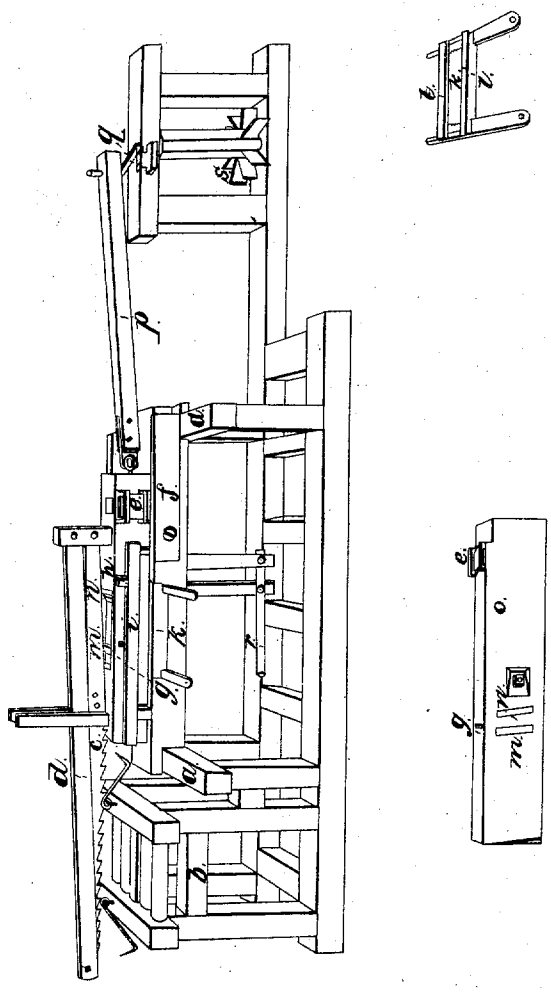
J. Bush,

7789X

Cutting Shingles.

Patented Nov. 19, 1833.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

7784X

May 19 1893

1495

John Bush Dayton Williamson

Letters Patent

The schedule referred to in the Letters Patent and making part of the same containing a description in the words of the said John Bush Dayton Williamson of his improvement in the machine for making Shingles

Be it known that I John Bush Dayton Williamson a citizen of the United States residing at Tipp City in the county of Miami and State of Ohio have made an improvement in the useful art relating to a machine for shaving the blocks or bolts used in splitting and shaping the shingles commonly called "Bush Shingles" which is described as follows reference being had to the accompanying drawings making part of this specification

This machine consists of the following principal parts the frame for containing and supporting the different parts of the machinery the frame A rollers upon which the blocks or bolts are placed to cut into blocks the saw with which it is cut the apparatus with which it is riven or split into shingles the jointing plane with the rail and guides the hand carriage upon which the shingles are placed planes rear carriage for shaping or shaving the shingles the lever for moving the planes and crank on the main wheel shaft for giving motion to the different parts of the machinery

The frame A is constructed of suitable timber and is adapted by its size form & strength to receive and support the several parts of the machinery for the purpose of making shingles. That part of the frame marked A upon which the timber is placed upon rollers is called the rear end of the machine.

Eccentric shaft C placed in frame A by pivot pin and pitman C' working on a bolt attached to planing apparatus and works crank shaft of the frame upon which the timber is laid and held down by dogs and cut into blocks or bolts for shingles by the motion of the carriage

Eccentric shaft C for raising or shifting the blocks or bolts into shingles is placed on the side of the plane carriage and rests & is fastened on the carriage upon which the bolt is placed to be riven

Jointing plane J is also upon the side of the frame for the purpose

ranges, and a mark is given to each upon which the shingles to be joined are placed. The plane Carriage is drawing the handle A across and both ways against which the shingles are held & made to slide in an opening in the frame called in the plane Carriage upon which the Side pieces C of the Carriage be come which the shingle rests is an inclined plane, which causes the shingles to be set thinner at the front end than at the back end forming the joint and back of the shingles by the plane C cutting off more at the front than at the back

The plane irons D. D. are fixed before the other are fixed in the plane Carriage the front plane iron by wedges, and the middle plane iron by a bolt & screw. This plane carriage is attached to a sharping, worked by a crank, which causes it to move forward & backward upon rays placed in the frame.

Below the plane Carriage is attached to the middle of it is a lever for working in a pin in a post or standard below for raising the plane Carriage when required to instruct the hand Carriage with the shingle.

The whole Machinery is adapted to work each part dependently or all together as suits the operator.

Operation The machinery being fixed in working by the water wheel and crank shaft is by the frame of plane irons, thereon, the timber to be cut into blocks is both is placed upon the rollers in the frame at the end of the machine and secured by the dogs and then a person lays the shingle then brought down upon the by which is contained and held or held for shingles these holders are removed by the splitting a sawing knife. Three pieces in shingles by the action of the crank & the plane Carriage as before. The shingles are then joined by being placed on the rest and back in contact with the joining plane on the side of the Carriage frame on side at a time and changed. The shingles are then placed on the hand frame and secured by the bars over the hand frame with the shingle slide under the plane frame and then shaved by the plane & the joint & back being formed by the action of the plane irons upon the inclined plane formed on the hand frame. When the planing across the plane frame is raised by the lever & plane under the frame and the shingle drawn under the plane frame let down, and the other side of the shingle shaved, & so forth, plane irons may be used in shingle dress.

1794

The accounts here drawn with claimed to be allowed by Boston Point Committee of the Peculiar arrangement & Construction of the Second Part of the Superior Machine for Making Shingles

Dated at the City of Washington this 8th day of December 1814

Hitchcock 3
H P Elliot 3
Jno H Walker 3

D. Wm. Brent
(Dr in Part Folio)

975 to 75