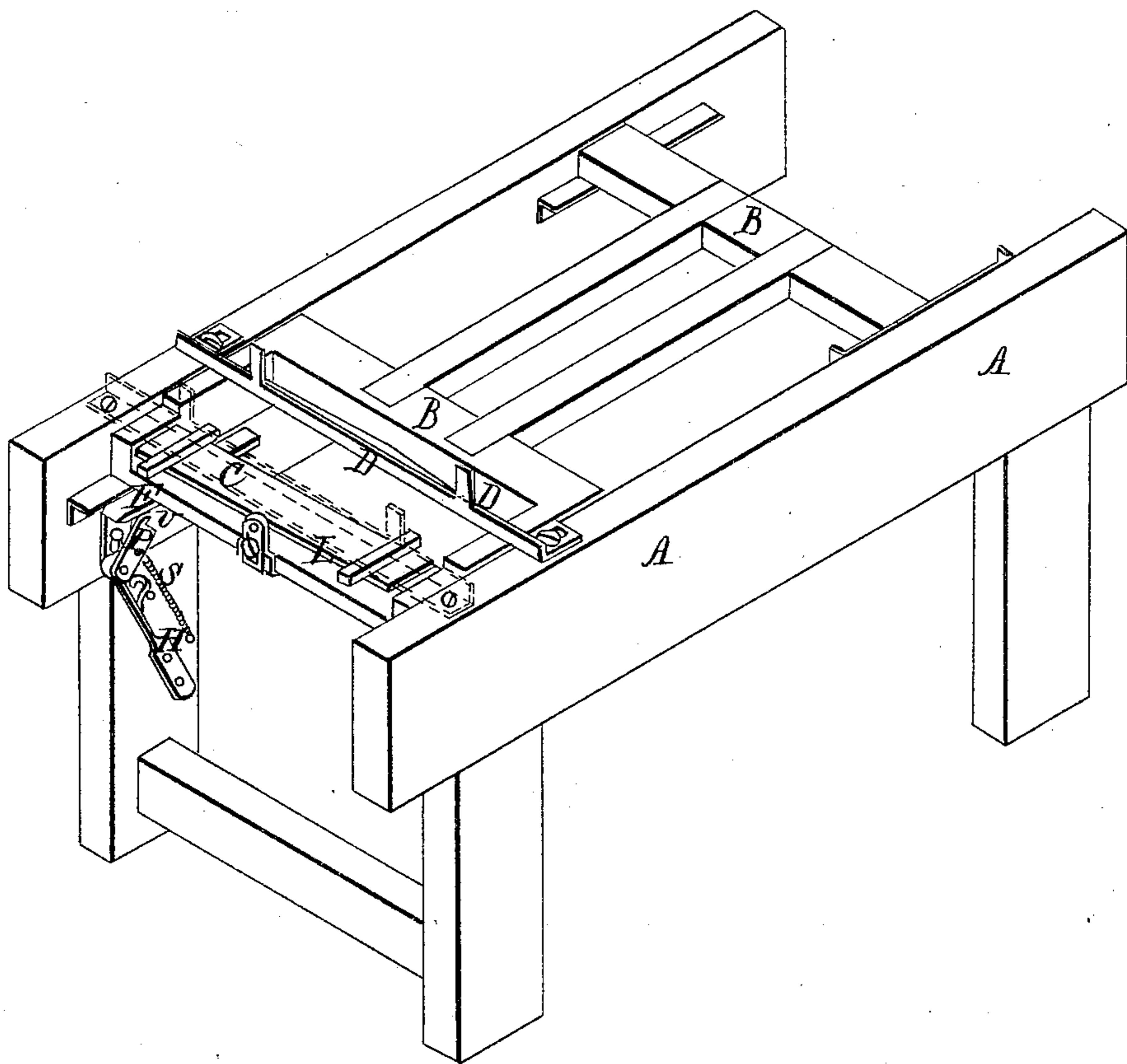


D. M. Boyd,
Sawing Shingles,
Nº 32,616, Patented June 25, 1861.



Witnesses:
C. M. Walker
N. G. Burnham

Inventor:
David M. Boyd

UNITED STATES PATENT OFFICE.

DAVID M. BOYD, OF INDIANAPOLIS, INDIANA.

TILTING DEVICE IN SHINGLE-MACHINES.

Specification of Letters Patent No. 32,616, dated June 25, 1861.

To all whom it may concern:

Be it known that I, DAVID M. BOYD, of the city of Indianapolis, in the county of Marion and State of Indiana, have invented
5 a new and useful Improvement for Tilting the Block-Tables in Shingle-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawing (marked Figure 1 and forming a part
10 of this specification) and to the letters of reference marked thereon.

To enable others skilled in the art to make
15 and use my improvement for tilting the block-table in a shingle machine, I will proceed to particularly describe its construction and operation:

B is a reciprocating sliding frame; L is
20 a base-plate forming a part of said sliding frame; C is a vibrating block-table, on which the block rests while gaging the shingle; V, is a lever securely fastened to one end of block-table C, passing through
25 a slot in base-plate L and extending to the adjustable plane F. F is an adjustable plane on which one end of the lever V is caused to rest; X is a spring securely fastened to the outer frame; P is a trigger
30 hung, or fastened to the spring X; S is a coil-spring to hold trigger P to its proper forward position; O is a scroll spring fastened to spring X to hold trigger P in its proper backward position.

35 When, by any application of power, the

sliding-frame B is put in motion, the lever V, is caused to move on adjustable plane F (the plane being arranged on a parallel line with the sliding frame B). The lever V, at the terminus of its forward motion falls by
40 its own weight and passes under the adjustable plane F, remaining on the under side in its backward and next forward motion, when it is caught by the trigger P and lifted above and passes again on top of the plane
45 F, then alternately changing the position of block-table C so as to hold the table on that diagonal line to the edge of the knife, required to give the shingle its proper taper, and cut at either end, alternately, the tip
50 and butt of the shingle.

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

The horizontal adjustable plane F, with the lever V, together with the spring X and
55 the trigger P, with its appendages, the coil-spring S and the scroll-spring O, when these parts or their equivalents are arranged substantially in the manner and for the purpose herein set forth; the object and nature of
60 the invention being to secure the tilting of the block-table of the shingle machine at the proper moment and to avoid any change of the table during the time the shingle is being cut.

DAVID M. BOYD.

Witnesses:

C. M. WALKER,
N. G. BURNHAM.