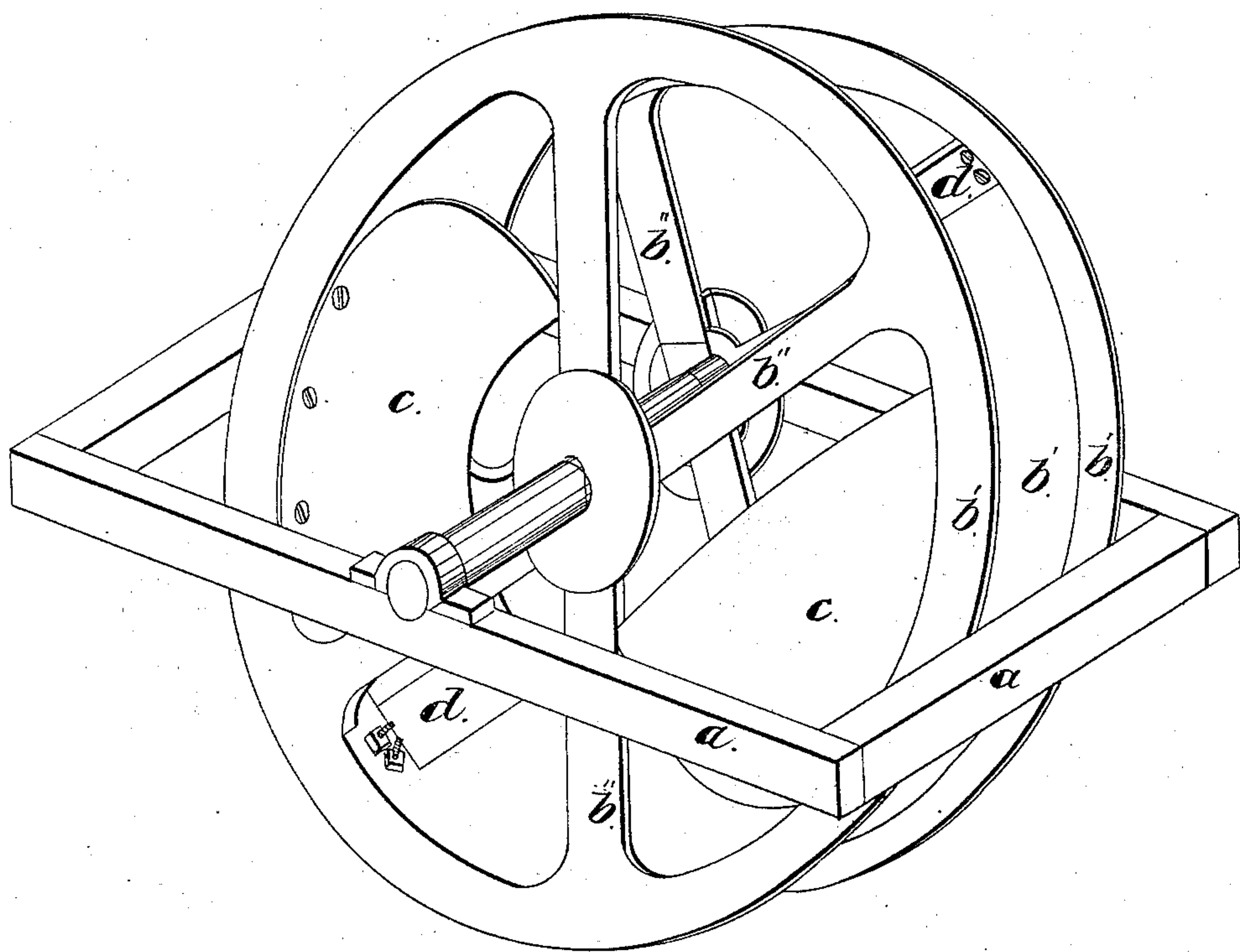


J. P. Bartley,
Cutting Shingles.
N^o 3,600. Patented May 25, 1844.



UNITED STATES PATENT OFFICE.

JONATHAN P. BARTLEY, OF FLANDERS, NEW JERSEY.

SHINGLE-CUTTER.

Specification of Letters Patent No. 3,600, dated May 25, 1844.

To all whom it may concern:

Be it known that I, JONATHAN P. BARTLEY, of Flanders, in the county of Morris and State of New Jersey, have invented a new and useful Improvement in Machinery for Cutting Shingles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which the machine is shown in perspective.

The construction of any machine is as follows: On a suitable frame (*a*) of any required dimensions a drum (*b*) is suspended, the bearings of the axle of said drum being in the side pieces of the frame and horizontal; the outer circumference of the drum is a cylindrical surface having a flanch (*b'*) projecting out from each edge; arms (*b''*) connect the drum with its axle and are made of sufficient strength for the purposes required. Two oblong slots are cut through the drum at opposite sides which serve as throats through which the shingles when cut pass into the inside; from these throats are iron plates (*c*) extending down in a curve toward the center, and also curving outward toward one end of the drum with a twist, somewhat resembling the concave mold board of a plow; these guide the shingles as they are cut out of the machine. The drum has affixed to its outer circumference, over the slots above named, and nearly parallel with the shaft, knives (*d*) which are screwed down to its face.

The different thickness of the point and butt of a shingle is obtained by having one end of the edge of the knife project a distance from the face of the drum greater than the other end, equal to the taper required; the opposite ends of the two knives are made to project as described so as to cut a butt and tip alternately from each end of the bolt, which is fed up to the drum in any of the ordinary ways.

The shingles cut by this machine are cut on the same curve as the periphery of the drum, the two sides of the shingle curving inward, and this I deem an advantage in cutting steamed wood which is not seasoned till after manufacture, for when placed upon a roof the sun inclines them to warp upward at their edges, which causes those made in my machine to come straight and flat, the curve being just about equal to counteract any bad effect of the sun on a straight shingle.

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

The employment of the drum (*b*) in combination with the knives for cutting curved shingles, and guides (*c*) for carrying off the shingles, the whole being constructed and arranged substantially as herein set forth.

JONATHAN P. BARTLEY.

Witnesses:

WM. BARTLEY,
DAVIS V. CANFIELD.