B. B. & A. J. Ockington,

Clothes Pin Machine.

No. 104,988. Patented July 5. 1870.

Fig: 2.

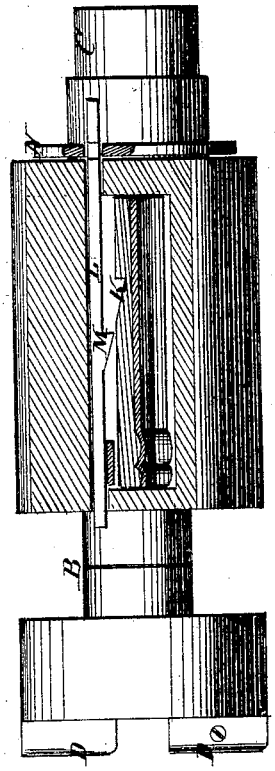
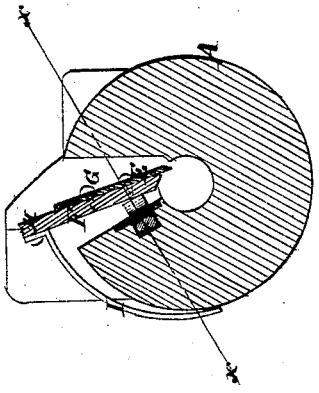


Fig: 1.



Witnesses:

M. Vorlander
D. S. Mabie

Inventor:

B. B. Ockington
A. J. Ockington

Per Munn & Co

Attorneys.

United States Patent Office.

BENJAMIN BROOKS OCKINGTON AND ANDREW J. OCKINGTON, OF STRATFORD, NEW HAMPSHIRE.

Letters Patent No. 104,988, *dated July* 5, 1870.

IMPROVEMENT IN ARBOR FOR TURNING CLOTHES-PINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, BENJAMIN BROOKS OCKINGTON and ANDREW J. OCKINGTON, of Stratford, in the county of Coos and State of New Hampshire, have invented a new and improved Arbor for Turning Clothes-Pins; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in machinery for turning clothes-pins, and consists in a hollow arbor with roughing-cutters at one end for reducing the stick fed in thereat, and with a finishing and heading-cutter, arranged in a longitudinal slot in the side of the arbor, and provided with a spring to cause it to act on the stick, and a sliding wedge to throw the knife up for the discharge of the pin, when finished, said wedge corresponding in form with a recess or notch in the cutter-stock, and fitting or resting in the same while the cutter is performing its office, all as hereinafter set forth.

Figure 1 is a transverse section of our improved arbor, and

Figure 2 is a horizontal section of the same, taken on the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

A is the hollow arbor, provided with journals B and C, to be arranged in boxes for rotation.

D represents roughing or reducing-cutters at one end, where the stick is fed into the axial hole to be turned, the said stick being prevented from revolving.

E is a finishing-cutter, about the length of the pins to be made.

The edge is arranged in outline, to agree with the required outline of the pins. It is mounted on a stock, F, held in a slot, G, in one side of the arbor, by pivots, H, one at each end, borne in supports carried by the arbor, so that the edge will act on the partially finished stick lying in the axial bore of the arbor.

The stock F has a spring, I, attached to it at one end, and bearing on the arbor at the other, so as to press the edge down upon the stick with the requisite force to cause it to perform the necessary cutting to finish it to the size and shape required.

The stock F has a notch in the back, with an inclined wall, K.

A sliding bar, L, is arranged in the slot behind the stock F, and has an inclined projection which stands in front of the notch when the spring is forcing the cutter down upon and permits the cutter to act, but, when the cutting is finished, the bar L is caused to slide along, so that the projection M passes beyond the notch, and forces the cutter up away from the stick, to permit the finished part to be moved forward and another part to take its place, to be finished in like manner, the cutter being permitted to act upon it by moving the slide back.

For sliding this bar L, a sliding ring, N, is placed on a reduced part, O, of the arbor, to have a crotched hand-lever or other device connected to it in any of the well-known ways, for sliding it back and forth while revolving.

This apparatus is intended mainly for turning pins with heads on one end, or with other like configuration of the outline, requiring the cutter to be moved away while the finished part of the stick is moved along.

We are aware of a patent, granted October 8, 1867, No. 69,543, to H. T. Clay, for a "lathe for turning broom-handles," &c., in which is shown a certain arrangement of wedge and cutter, for operating in a manner substantially analogous to those described in our invention; but we claim nothing therein shown.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The arrangement of the longitudinally slotted arbor A, provided with journals B C, the roughing-cutters D, ring N, sliding bar L having projections M, pivoted stock F having notch K, knife E, and spring I, all constructed and operating as shown and described.

BENJAMIN BROOKS OCKINGTON.
ANDREW J. OCKINGTON.

Witnesses:
EDWARD B. MERRIAM,
CHARLES MAHURIN.