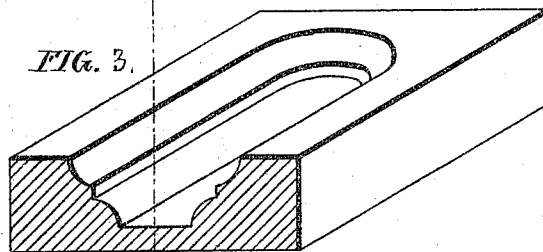
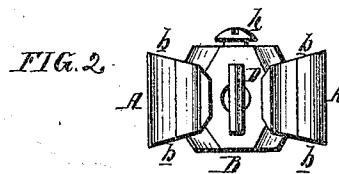
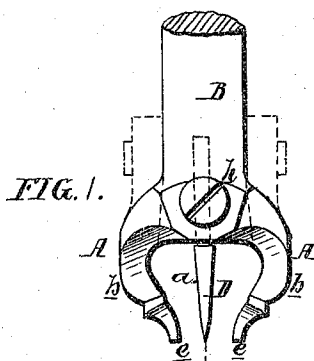


C. H. MELLOR & M. L. ORUM.

Rotary-Cutters.

No. 140,938.

Patented July 15, 1873.



Witnesses } Hubert Hopson
Harry Smith.

Chas. H. Mellor and
Morris L. Orum
by his Atty.
Horton L. Smith.

UNITED STATES PATENT OFFICE.

CHARLES H. MELLOR AND MORRIS L. ORUM, OF PHILADELPHIA, PA.

IMPROVEMENT IN ROTARY CUTTERS.

Specification forming part of Letters Patent No. **140,938**, dated July 15, 1873; application filed January 11, 1873.

To all whom it may concern:

Be it known that we, CHARLES H. MELLOR, of Philadelphia, Pennsylvania, and MORRIS L. ORUM, of same place, have invented Improvements in Rotary Cutters, of which the following is a specification:

Our invention relates to improvements in what are known as rotary molding-cutters; and the object of our invention is to render the cutter effective for operating on various kinds of work.

The cutter illustrated in the drawing has two arms, A A, extended outward from the end of the stock or spindle B to form a clear open space, *a*, at the center of the cutter between the said arms and beyond the spindle, through which ready access may be obtained to the cutting-edges *b b*, for the purpose of sharpening the same, and which will afford ample clearance for the cuttings and prevent the clogging of the tool. The cutter, provided with a detachable end cutting center-bit D, is used for surface or panel work of the character illustrated in the sectional perspective

view, Figure 3, and the same tool may be rendered available for edge-work.

The tool illustrated in the drawing has its cutting-edges *b* at the sides only, the ends *c* being blunt to prevent shortening of the tool by wear. Although the bit D may be permanent, it is preferably detachable and capable of longitudinal adjustment, so that it may be set outward as it wears and project slightly beyond the ends of the arms A.

In constructing our improved tool, the arms A, of which there may be more than two, may be made in one piece with or be simply secured to the spindle.

We claim as our invention—

The cutter having side cutting-arms A A and an end cutting-bit, D, as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

Witnesses: C. H. MELLOR.
MORRIS L. ORUM.
WM. A. STEEL,
HUBERT HOWSON.