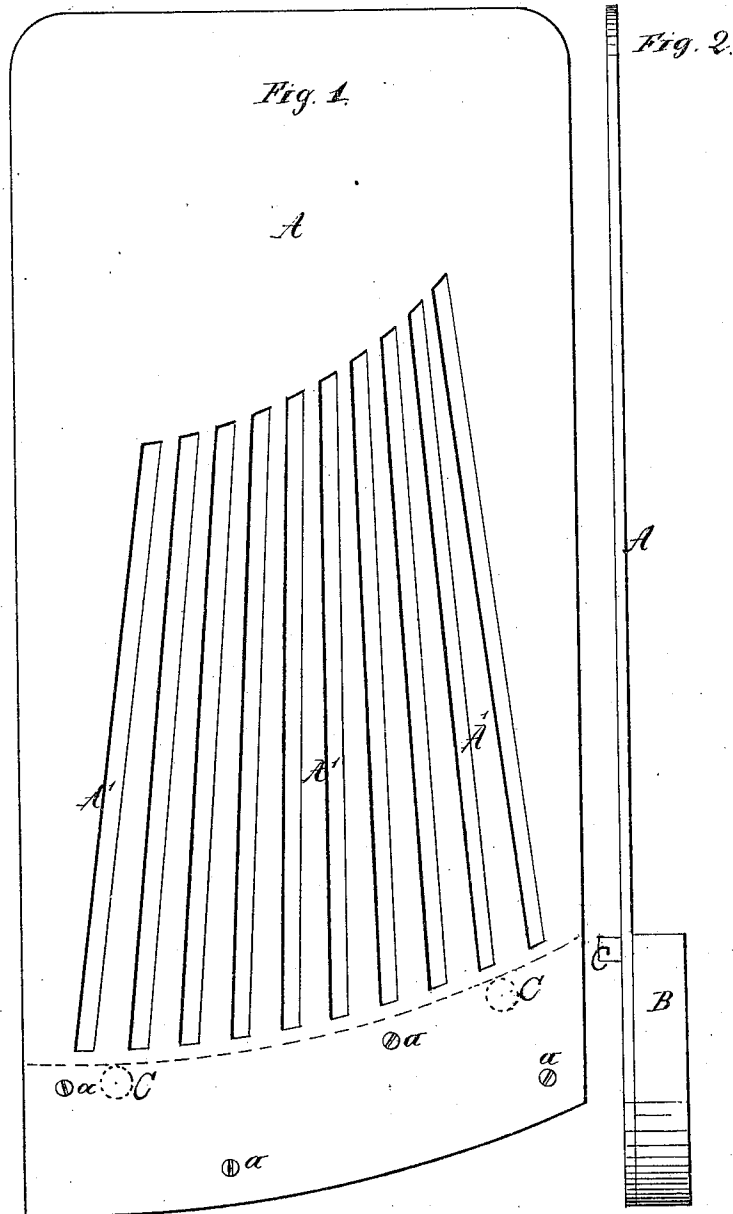


G. T. SMITH.

PATTERNS FOR LAYING OUT FURROWS IN MILLSTONES.

No. 179,230.

Patented June 27, 1876.



Witnesses
Henry Smith
J. G. Doubleday

Inventor
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by *W. H. Doubleday*
att'y.

UNITED STATES PATENT OFFICE.

GEORGE T. SMITH, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN PATTERNS FOR LAYING OUT FURROWS IN MILLSTONES.

Specification forming part of Letters Patent No. **179,230**, dated June 27, 1876; application filed June 9, 1876.

To all whom it may concern:

Be it known that I, GEORGE T. SMITH, of St. Louis, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Pattern for Laying Out Furrows in Millstones; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of this invention relates to the peculiar construction and operation of a pattern by means of which furrows may be accurately and expeditiously laid off upon millstones, and consists of a slotted plate of wood, or other suitable material, which is adjusted to and guided by the outer edge of the burrs.

Figure 1 is a top or plan view of my pattern. Fig. 2 is an edge view.

In the accompanying drawings, A represents the plate-piece of the pattern. B represents a detachable guide-piece attached to the plate A by screws *a a a a*. C C represent pins or projections, which, if desired, may be used in lieu of the piece B to guide the plate. A' A' represent slots cut through the plate A for the purpose of exhibiting the places to be marked on the stones for furrows. Each of these slots runs in a direction tangential to a circle concentric with the rim of the millstone, and may be of any required length and breadth. The plate A may be of any desirable size and shape. The guide-piece B, or the guide-pins C C, may be attached to either or both sides of the plate A, so that furrows running either to the right hand or the left may be laid off upon the stones with the same pattern.

The accompanying drawings are one-half the size of a working model, and by reference to them it will be seen that the slots A' A' are therein arbitrarily adjusted to the plate A for a draft of about nine and one-half inches on a four and one-half foot-stone. An adjustment to any other draft, however, can be obtained by slotting the plate in directions tangential to the circle of the draft desired, or by moving one or both ends of the guide. By this instrument, properly arranged, the operation of laying off furrows upon millstones is greatly simplified. The plate is placed upon the stone, and the guide adjusted to the rim, as above described, when a furrow or set of furrows can be accurately marked through the slots. The plate is then moved around upon the rim till the slots indicate the position of the next furrow, or set of furrows. Under some circumstances the piece B and pins C C may be dispensed with, and the outer extremities of the slots A' A' be made to conform to the circumference of the stone, thus furnishing a gage for the position of the plate when in operation.

Having thus described the construction and operation of my invention, what I claim is—

1. The plate A, provided with slots A' A', substantially as set forth.
2. In combination with the slotted plate A, the guide-piece B, or the pins C C, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEORGE T. SMITH.

Witnesses:

H. H. DOUBLEDAY,
W. H. CARTER.