

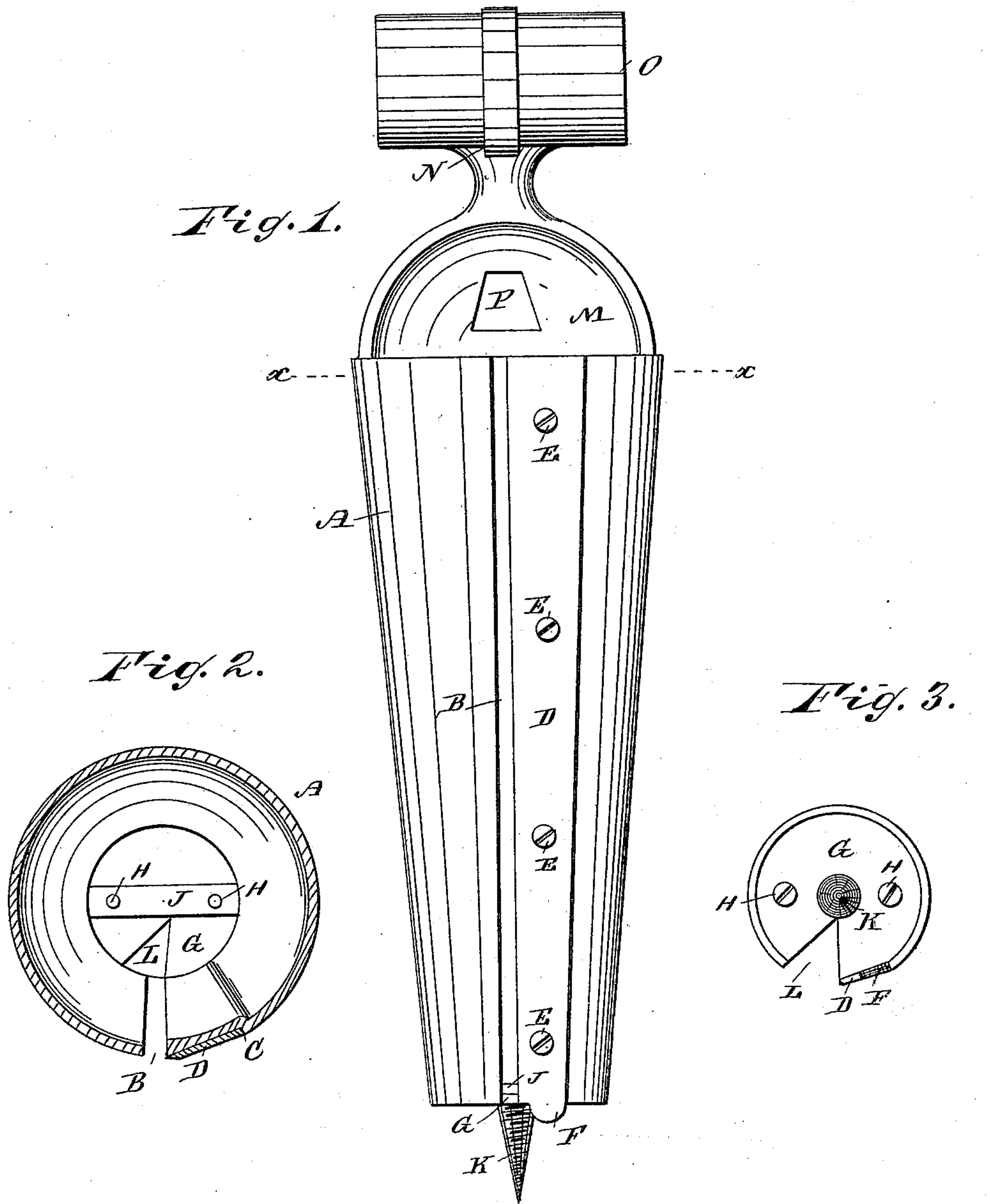
(No Model.)

G. A. STANGER.

BUNG BORER.

No. 298,908.

Patented May 20, 1884.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GUSTAV A. STANGER, OF CHESTER, CONNECTICUT.

## BUNG-BORER.

SPECIFICATION forming part of Letters Patent No. 298,908, dated May 20, 1884.

Application filed February 8, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAV A. STANGER, of Chester, in the county of Middlesex and State of Connecticut, have invented a new and Improved Bung-Borer, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for boring bung-holes in barrels.

10 The invention consists in a tapering casting provided with a longitudinal slot, on one edge of which a blade is held. A bottom plate is secured in the lower end of the casting, and is provided with an aperture forming a cutting end, and with a gimlet-pointed screw.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a face view of my improved bung-borer. Fig. 2 is a plan view of the same on the line *x x*, Fig. 1. Fig. 3 is a plan view of the under side of the bottom plate.

25 A tapering cast-iron cylinder, A, is provided with a straight slot, B, extending from top to bottom, at one edge of which slot a rabbet, C, is formed, in which the blade D is held by screws E, the cutting-edge of the blade being parallel with and projecting slightly over the edge of the slot. At the bottom end of the blade a sharp-edged half-round projection, F, is formed which projects below the lower edge of the casting A. The bottom plate, G, fits within the smaller end of the casting, and is held in place by screws H, passed through apertures in the bottom plate, G, and screwed into a cross-piece, J, of the casting. The bottom plate, G, is provided at its middle with a downwardly-projecting gimlet-pointed screw, K, and the said plate is also provided with a triangular recess or aperture, L, one edge of which is a cutting-edge. At its upper end the casting is provided with a rounded part, M, on the top of which a ring or loop, N, is formed, through which a handle-piece, O, is passed. The rounded part M is provided with an aperture, P, through which the chips and shavings can pass. If the instrument be turned on

its longitudinal axis, the gimlet-screw K first enters the wood; then the projections F make a circular cut; then the cutting-edge of the bottom plate, G, cuts out chips, and finally the blade D cuts out the sides of the hole formed.

The bung-borer is strong, compact, and durable.

One of the great advantages of my improved bung-borer is that it catches all the chips and shavings and does not permit them to drop into the barrel.

The blades and cutting parts can easily be removed for sharpening.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A bung-borer consisting of a tapering casting provided with a longitudinal slot, at one edge of which the cutting-blade is held, and with a bottom plate having an aperture, one edge of which is a cutting-edge, substantially as described.

2. The combination, with the tapering casting A, having a longitudinal slot, B, of the blade D, held on one edge of the slot B, and provided at its lower end with a sharp-edged projection, F, the bottom plate, G, having an aperture, one edge of which is a cutting-edge, and of the gimlet-pointed screw K, projecting downward from the middle of the plate G, substantially as herein shown and described.

3. The combination, with the tapering casting A, having a slot, B, along one edge of which a rabbet, C, is formed, of the blade D, held in the rabbet, the bottom plate, G, having an aperture, L, and the gimlet-pointed screw K on the bottom of the plate G, substantially as herein shown and described.

4. The combination, with the tapering casting A, having a rounded part, M, and a ring or loop, N, and a longitudinal slot, B, of the blade D, held at one edge of the slot, the bottom plate, G, having an aperture, L, and of the gimlet-pointed screw K, substantially as herein shown and described.

GUSTAV A. STANGER.

Witnesses:

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