

J. F. Sutton,

Countersink.

No. 109,154.

Patented Nov. 8, 1870.

Fig: 1

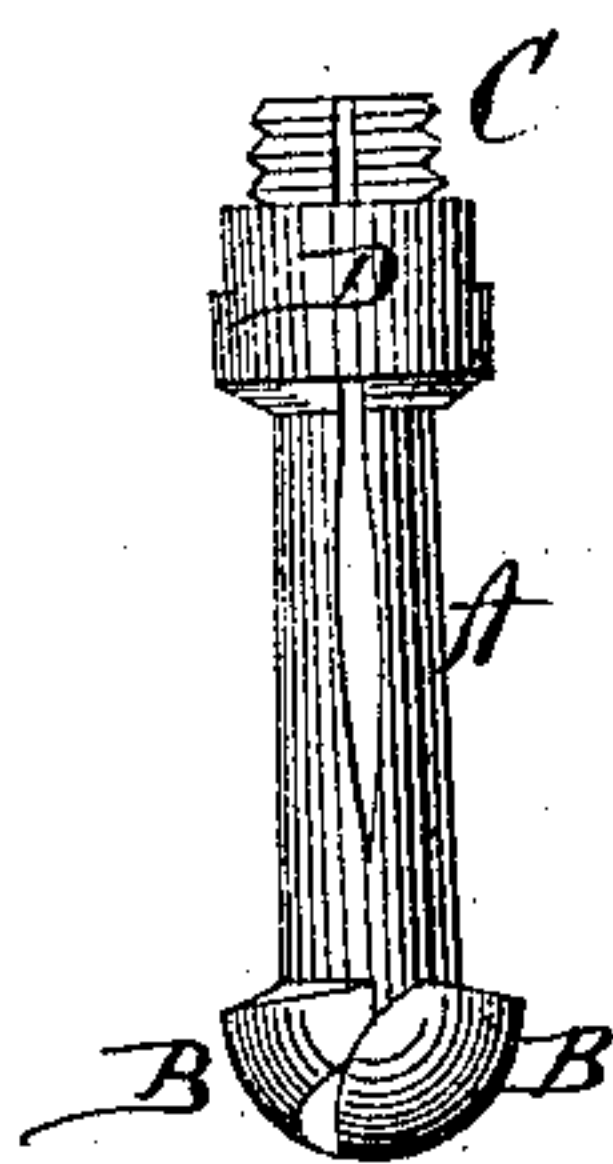


Fig: 2

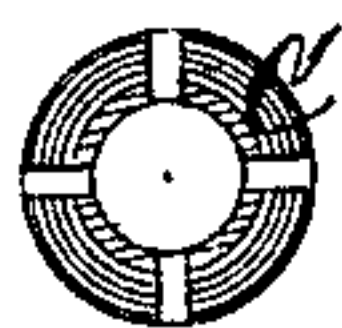


Fig: 3

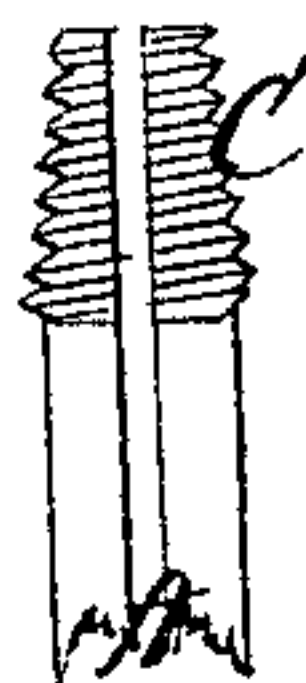


Fig: 4



Witnesses.

A. A. Yeatman
G. L. Everts

Inventor.

Delay F. Sutton
per Alexander M. Maby

Atty-

UNITED STATES PATENT OFFICE.

DELAY F. SUTTON, OF TOLEDO, OHIO.

IMPROVEMENT IN COUNTERSINKS.

Specification forming part of Letters Patent No. **109,154**, dated November 8, 1870.

To all whom it may concern:

Be it known that I, DELAY F. SUTTON, of Toledo, in the county of Lucas, and in the State of Ohio, have invented certain new and useful Improvements in Countersink; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an adjustable countersink, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of my countersink complete. Fig. 2 is a plan view of the upper end without the nut. Fig. 3 is a side view of the same, and Fig. 4 is a plan view of the nut.

A represents a tube of suitable length, at the lower end of which are formed two round lip-cutters, B B. From the upper end down-

ward the tube A is slotted, as shown, and at the upper end is formed a tapering screw, C.

D represents a nut made to fit the screw C.

The bit or gimlet is passed through the tube A, so that the cutters B B will be any desired distance from the point. The nut D is then turned down on the screw, which tightens it firmly.

The countersink thus constructed is very substantial, and not liable to get out of order.

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

The slotted tube A, provided with the round lip-cutters B B at one end and tapering screw C at the slotted end, and used with the nut D, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of October, 1870.

DELAY F. SUTTON.

Witnesses:

FRANK COLLINS,
C. L. EVERT.