No. 667,735. Patented Feb. 12, 1901.

C. PEASE.

TOOL HOLDER.

(Application filed Mar. 24, 1900.)

(No Model.)

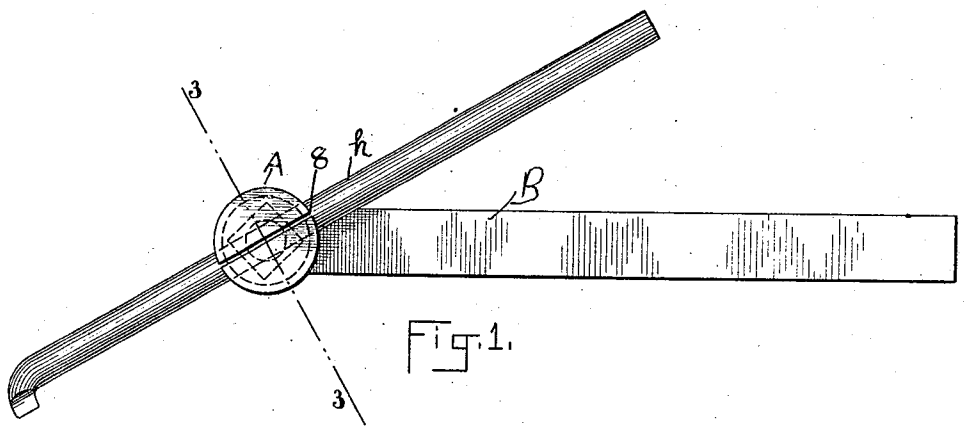


Fig. 1.

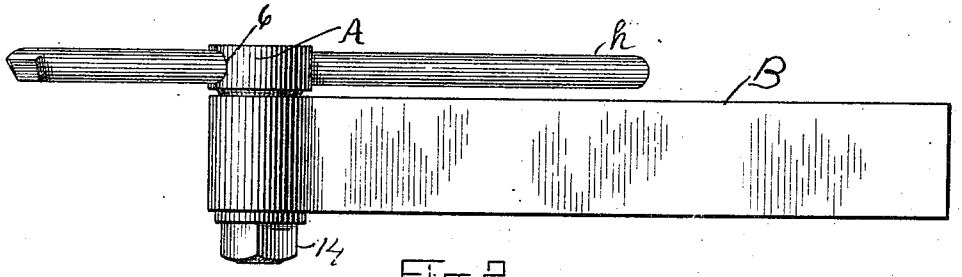


Fig. 2.

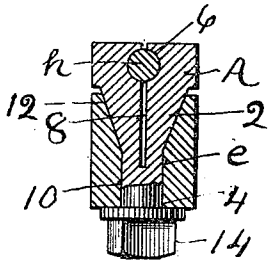


Fig. 3.



Fig. 4.

WITNESSES=

G. H. Howland

A. M. Tuttle

INVENTOR=

Chas Pease

By C. B. Tuttle Atty

UNITED STATES PATENT OFFICE.

CHARLES PEASE, OF LYNN, MASSACHUSETTS.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 667,735, dated February 12, 1901.

Application filed March 24, 1900. Serial No. 10,082. (No model.)

To all whom it may concern:

Be it known that I, CHARLES PEASE, of Lynn, in the county of Essex and Commonwealth of Massachusetts, have invented certain Improvements in Tool-Holders for Machinists' Use, of which the following, read in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a plan, and Fig. 2 is an elevation, of a tool-holder embodying this invention. Fig. 3 is an elevation of a section on line 3. Fig. 4 is a plan view of parts to be described hereinafter.

In this invention the bolt A comprises a section provided with conical or beveled face-walls 2 and a screw-threaded section 4. It has a transverse opening 6 and a slot 8 extending longitudinally thereof through said opening 6 and said conical or beveled section 2. The stock B has an opening *e*, which opening *e* comprises a section 10, adapted for passage therethrough of the said section 4 of said bolt A, and also a section provided with conical or beveled interior face-walls 12, said section 12 being of slightly smaller diameter than the corresponding diameter of said conical or beveled section 2 of said bolt. The nut 14, having screw-threaded engagement with said bolt A and bearing on the said stock B, may be operated for moving the bolt A longitudinally through said opening in said stock B. It will be understood, of course, that a turning of said nut 14 in one direction operates the longitudinal movement of bolt A, which forces the beveled faces 2 on said bolt A against the beveled faces 12 of said stock B, whereby the said bolt A is forcibly clamped against the tool *h* in said hole *e*, whereupon the bolt A becomes firmly seated against turning. Reversely turning the nut 14 operates to reversely move the bolt A longitudinally, and consequently releases the tool *h* from the grip of said bolt A, whereupon the bolt A may be turned about for shifting and adjusting the angle of the tool *h*. The tool *h* may now be also adjusted longitudinally or removed and introduced at will.

To facilitate the holding of tools of different shapes and diameters, bushings may be employed in the hole 6 of said bolt A. In Fig. 4 of the accompanying drawings are shown two such bushings. The one, H, has a square-shaped central opening for holding a tool of square-shaped wire. The bushing N is designed for holding a tool of round wire, and consequently the said central opening therein is of circular contour. Other shapes and sizes may obviously be employed. Said bushings are adapted circumferentially to fit in hole 6 of said bolt A and are cut or slotted at one side to permit being clamped against the tool. The stock B has its shaft adapted for fitting into the tool-post of an ordinary lathe, planer, or other machine-tool, as desired.

I claim—

1. The combination with a stock having a transverse opening therein, said opening cylindrical at one end and tapering at the other, of a bolt fitted to this opening, the bolt split at the tapered end and provided with a transverse opening and threaded at the opposite end, and a tool clamped in this opening and a nut on the threaded end for tightening the tapered portion of the bolt in the tapered end of the opening in the stock.

2. The combination with a stock having a tapering opening therein, of a bolt fitted to this tapering opening, said bolt split from one end well into the portion in the tapering opening and provided with an opening 6 in the portion which is always outside of the opening in the stock, said opening 6 adapted to receive a tool, and means for forcing the bolt endwise in the opening in the stock whereby to create lateral pressure upon the bolt at opposite points and between the tool and the inner end of the slit in the bolt.

Signed by me at Lynn, Massachusetts, this 20th day of March, 1900.

CHARLES PEASE.

Witnesses:
A. M. TUTTLE,
C. B. TUTTLE.