(No Model.)

D. B. WHITEHILL.

AUGER HANDLE.

No. 488,463. Patented Dec. 20, 1892.

Fig. 1.

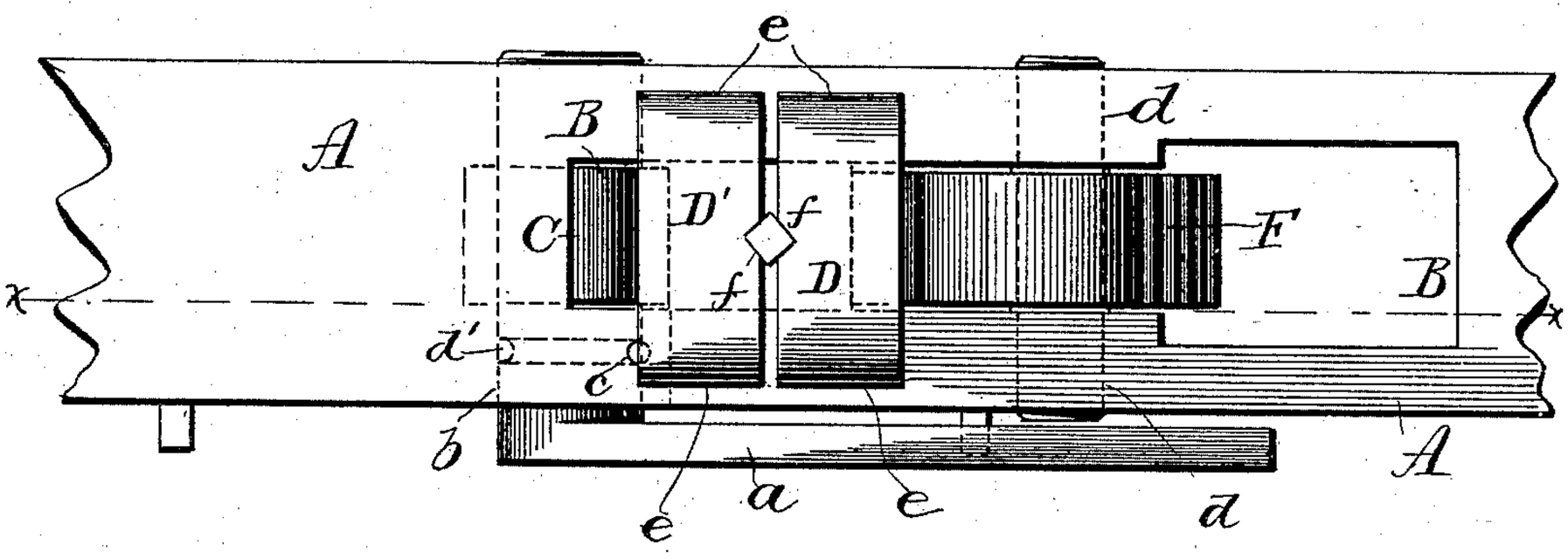
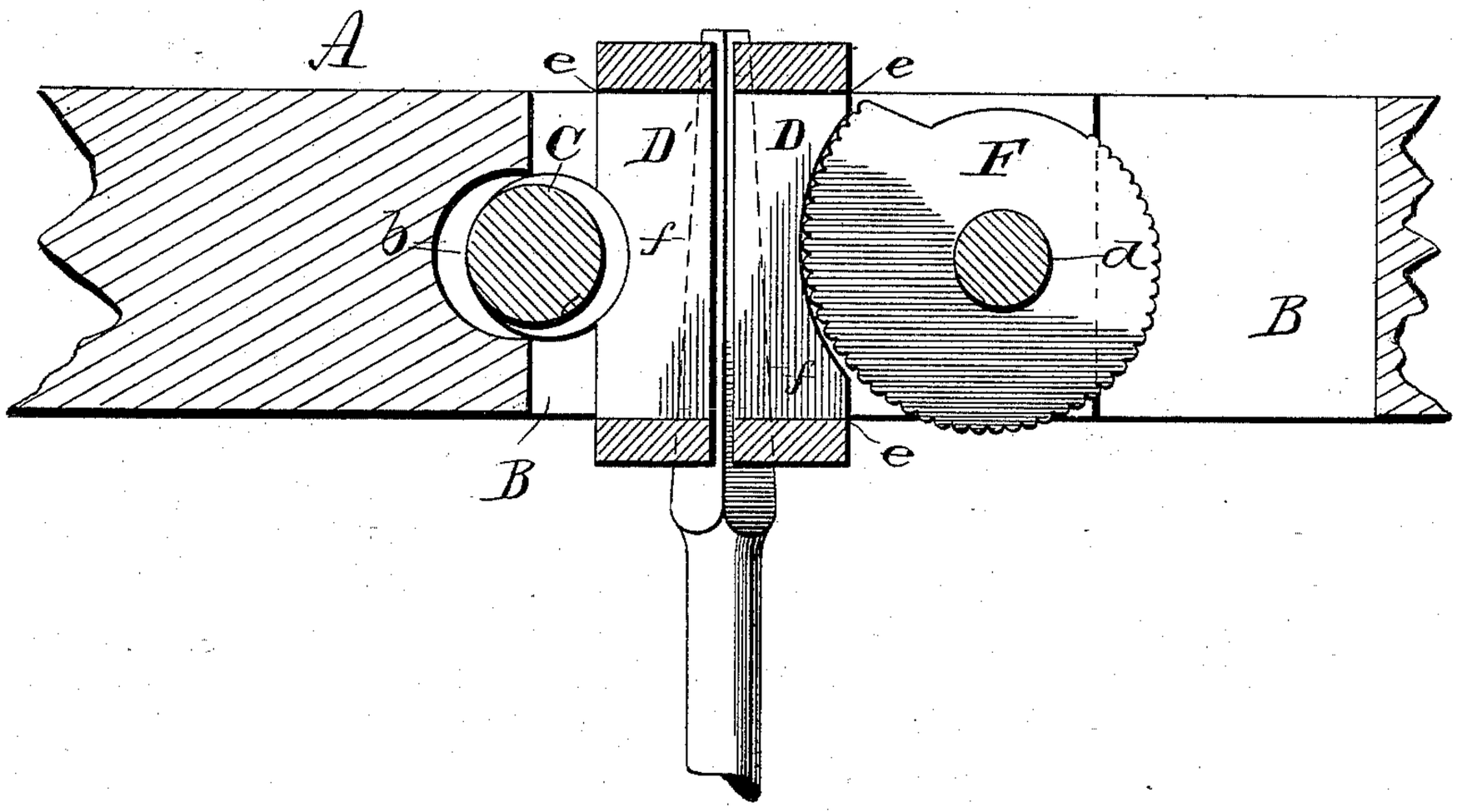


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

DAVID BROWN WHITEHILL, OF NORTH CLARENDON, PENNSYLVANIA.

AUGER-HANDLE.

SPECIFICATION forming part of Letters Patent No. 488,463, dated December 20, 1892.

Application filed April 23, 1892. Serial No. 430,395. (No model.)

To all whom it may concern:

Be it known that I, DAVID BROWN WHITEHILL, of North Clarendon, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Auger-Handles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in auger handles, the object being to provide a simple and inexpensive device which can easily be adjusted to the various sized shanks of augers, and when so adjusted will firmly clasp the shank and prevent any lateral movement of the same.

With this end in view my invention consists in certain novel features of construction and combinations of parts as will be hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of my invention showing the auger in position, and Fig. 2 is a section of the same on line *x*—*x*.

A represents a handle provided between its ends with a mortise B, one end of which is preferably wider than the other. An eccentric roller C is provided with a lever *a*, which latter may be cast integral with or secured to eccentric roller C in any desired manner. This roller C is located in a hole *b* which latter opens into or communicates with the smaller end of mortise B, and the roller is held therein by means of a pin *c*, which latter engages a groove *d'* located on the circumference of eccentric roller C, by this arrangement the roller is held in place and is prevented from being withdrawn from the hole *b* while the device is in use. The clamps D, D', which move in the restricted portion of mortise B are provided with overlapping edges *e*, which latter engage the top and bottom surfaces of the handle and prevents the clamps D, D', from dropping out of the mortise.

Within mortise B and in rear of the clamps D, D', is located a toothed cam F, which latter moves on the stationary shaft *d* said cam being so located that it comes in contact with the clamp D, which latter is preferably slightly dished at the contact point, and materially prevents any slipping of the toothed cam when the parts are in contact. The clamp D' is also dished at the point where it comes in contact with the eccentric roller C by means of which a better bearing surface is obtained and slipping of the roller avoided. The clamps D, D' are provided with vertical V-shaped grooves *f* into which the shank of an auger is inserted and when the latter is in position will be firmly held against movement by means of the roller C and cam F.

The object of constructing the mortise B larger at one end than at the other is for the insertion of the clamps D, D', which latter are first inserted in the large end of the mortise B, then turned in their operative positions and finally shoved into their proper positions in the smaller end of the mortise B, which position brings clamp D' against the eccentric roller C. The clamps now being in position the toothed cam is then inserted within the mortise until the hole in same registers with the holes in the handle when the shaft or axle is passed through said holes and secured against movement. When it is desired to insert the shank of an auger and firmly clamp the same within the V-shaped grooves *f*, the roller C and cam F are thrown out of engagement, the clamps D, D', moved apart and the shank of the auger inserted in the V-shaped grooves *f* and when in this position the cam is moved until it comes in contact with and forces the clamps together, pressure is then applied to the lever of the eccentric roller C, which locks the clamps against any possible chance of movement and prevents the shank from being pulled out of the V-shaped grooves.

It will be apparent from the foregoing that the arrangement of the several parts is such that shanks of different diameters can be clamped and held in position in my device.

This device, while it could be employed on hand drills and augers, is also adapted for use on earth or rock drills and can be attached to the upper ends of drills or other devices employed in deep well drilling, when it is desired or necessary to remove such tools from the well.

It is evident that numerous slight changes

in the constructive details of my improvement might be resorted to without departing from the spirit and scope of my invention, hence I would have it understood that I do not wish to confine myself to the exact form and construction shown, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. The combination with a handle having a mortise therein, and clamps in the mortise, of eccentric cams adapted to bear one on each of the clamps whereby the latter are forced together against the tool to be held, substantially as set forth.

2. The combination with an auger handle having a mortise located therein, which latter is of greater diameter at one end than at the other, of adjustable clamps provided with V-shaped grooves for the reception of the shank of an auger or other tool, and an eccentric roller having a handle thereon, of a cam mounted on a shaft in said mortise, the cam and roller adapted to cause the clamps to hold the shank of an auger against movement, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DAVID BROWN WHITEHILL.

Witnesses:
H. S. PERRY,
E. W. PARSHALL.