

(No Model.)

S. BURD.
AUGER.

No. 350,657.

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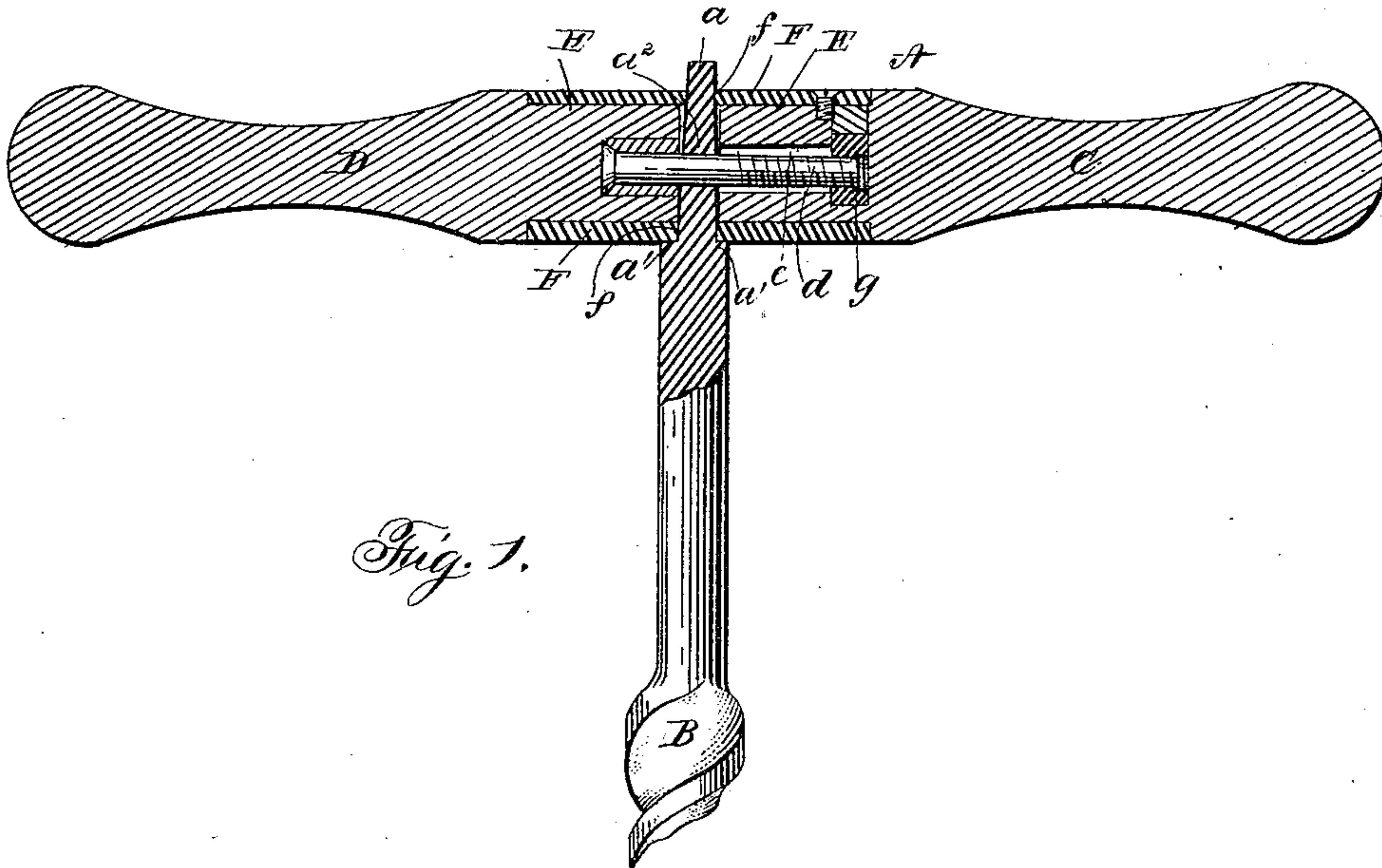


Fig. 1.

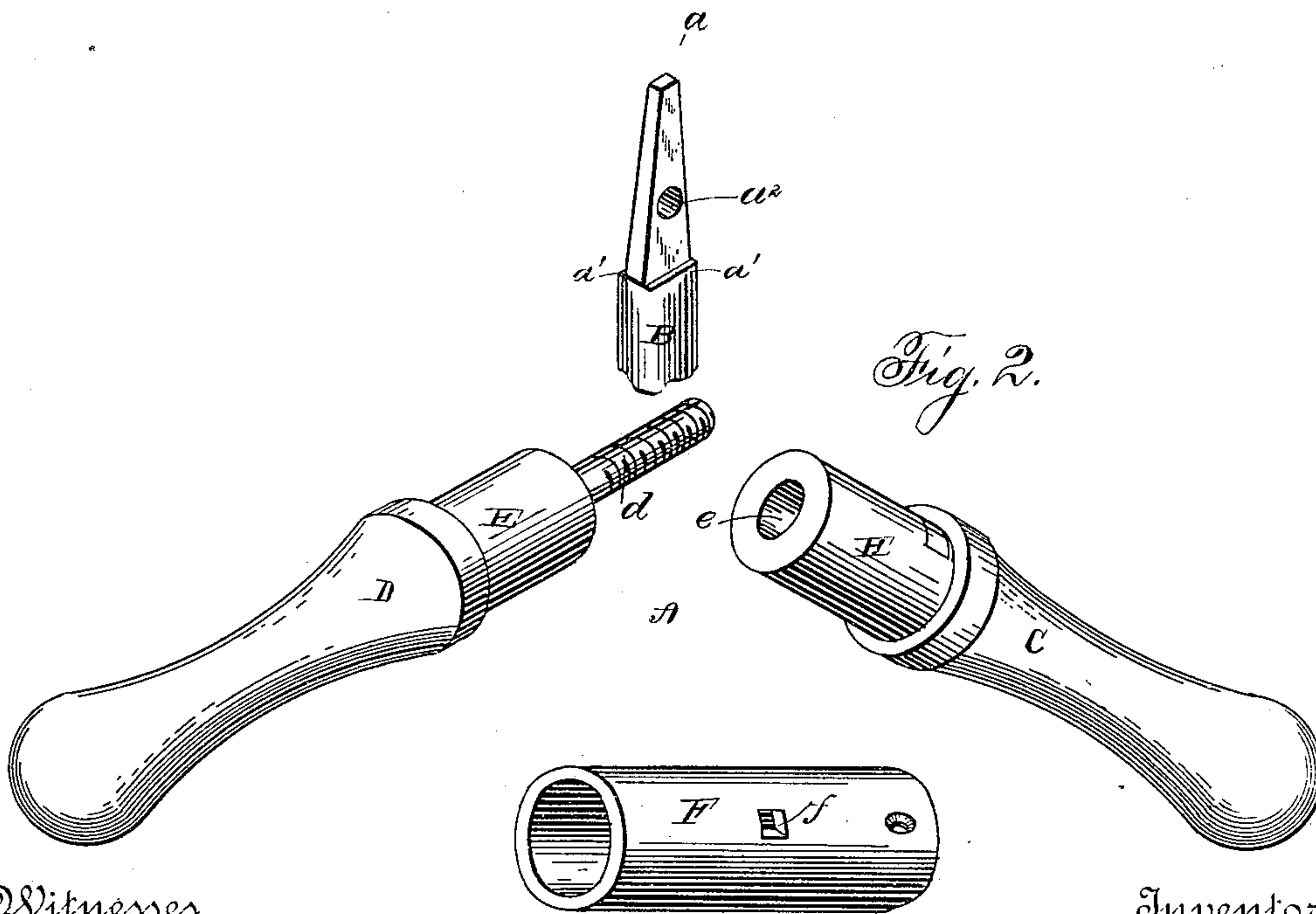


Fig. 2.

Witnesses

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SPECIFICATION forming part of Letters Patent No. 359,657, dated October 12, 1886.

Application filed May 1, 1886. Serial No. 200,833. (No model.)

To all whom it may concern:

Be it known that I, SIMEON BURD, a citizen of the United States, residing at Bradenville, in the county of Westmoreland and State of Pennsylvania, have invented new and useful Improvements in Augers, of which the following is a specification.

My invention relates to improvements in augers; and it consists of the peculiar and novel construction and combination of parts, substantially as hereinafter fully set forth, and specifically pointed out in the claim.

The object of my invention is to provide improved means for connecting the auger proper with the handle thereof, whereby it can be very easily and readily disconnected and taken apart to adapt the parts to be repaired or renewed, and to also adapt different sizes of augers to be secured in the handle, so that they can be conveniently operated; and a further object of the invention is to provide an auger-handle which shall be very simple, strong, and durable in construction, thoroughly effective in operation, easy and ready of adjustment, and cheap and inexpensive of manufacture.

In the accompanying drawings, Figure 1 is a vertical sectional view of my invention. Fig. 2 is a detached perspective view of the parts of my improved handle for augers.

Referring to the drawings, in which like letters of reference denote corresponding parts in both the figures, A designates the handle, and B the auger, that are constructed in accordance with my invention. The auger proper is constructed in a manner similar to others of its class at present in common use, and at its upper end it is flattened and tapered or pointed, as at *a*, to provide the lateral shoulders *a'*, and with a transverse aperture or opening, *a''*, through which passes a threaded bolt, *d*, of the handle A, to secure the auger thereto, in the manner more fully described presently.

The handle of the auger, A, is made in two longitudinal sections, C and D, each of which is provided at its inner end with a reduced tenon, E, that fits in a thimble or sleeve, F, which is arranged between the adjacent ends of the handle-sections, and in which the tenons thereof are fitted, and also the upper end of the auger-shank. This thimble is provided with slots *f*, for the passage therethrough of

the flattened end of the auger shank, and the periphery thereof lies flush with the outer edges of the sections of the handle, so as to present a neat and attractive appearance and make the device resemble ordinary augers. At its inner end the tenon of the handle-section D is provided with a threaded bolt or pin, *d*, which projects forwardly thereof, and the tenon of the handle-section E is provided with a socket, *e*, in which is secured a metallic interiorly-threaded nut, *g*. The tenon of the section E is cut away to permit the insertion of the nut therein, and the cut-away portion or opening is then closed up by means of a plug that is suitably secured therein.

When the auger is fitted in the handle, the flattened end of the shank thereof passes through the thimble or sleeve, and the tenons of the handle-sections fit in opposite ends of said thimble, while the threaded pin or bolt passes through the opening in the auger-shank and into the threaded nut in the opposite handle-section, whereby the parts are very firmly and rigidly secured together. The thimble or sleeve is secured to the handle-section E by means of a pin or screw that is passed through the thimble and handle, to prevent accidental displacement of the parts when they are adjusted for use.

To detach the auger from the handle for the purpose of replacing it with an auger of different size or construction to adapt it to do different kinds of work, it is only necessary to rotate the handle-section D to unscrew the threaded pin or bolt from the socket or nut *g*, whereby the auger can be readily removed from the thimble or sleeve, and after another auger has been adjusted therein it is only necessary to again screw the threaded pin or bolt of one handle-section into the nut of the other handle-section.

It will be observed that I provide an improved auger that is simple, strong, and durable in its construction, that the auger proper can be easily and readily disconnected from the handle and replaced by others of different sizes or of different construction, that the detachment or interchange can be easily and readily accomplished and in a short space of time, and that the device can be manufactured and sold very cheaply.

I do not desire to confine myself to the ex-

act details of construction and form and proportion of parts herein shown and described as an embodiment of my invention, as I am aware that various changes therein can be made
5 without departing from the principle or sacrificing the advantages of my invention.

I am aware of Patent No. 296,873, for an auger-handle constructed in two parts having an aperture formed in its center, one of said
10 parts having a clamp-bolt adjustably secured in its portion of said aperture by means of a pin which passes through a slot in the clamp-bolt, and the other of said parts having a nut set in its portion which engages with a screw-
15 threaded end of said clamp-bolt, the clamp-bolt having a square aperture, through which a squared part of the auger-shank passes. My improved auger differs from this device, in that
20 I provide a threaded pin, *d*, which is rigidly secured in and rotates with one of the handle-sections, and the said pin passes through and freely rotates in an opening formed in the flattened end of the auger-shank. This shank has a reduced and flattened end, which passes
25 through aligned slots in a thimble or sleeve, and provides shoulders *a'*, which bear on the said thimble, so that the auger-shank is very firmly connected to the thimble when the threaded pin passes through its aperture. By
30 fixing the threaded pin rigidly in one of the handle-sections, so that it will turn or rotate therewith, the parts can be very easily and

readily detached and connected together, and a very simple and strong auger is presented that can be manufactured and sold for a trifling
35 sum.

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

An improved auger comprising a thimble or
40 sleeve, *F*, having the aligned slots *f* in opposite sides, an auger having a flattened perforated shank which passes through the slots of the thimble, and the projecting shoulders *a'*, that bear against the outer side of the thimble,
45 the handle-sections *CD*, having the tenons fitting in opposite ends of the thimble, a threaded nut, *g*, secured rigidly to one of the handle-sections and at the inner end of a longitudinal recess or passage therein, and a threaded
50 pin, *d*, secured rigidly to and rotating with the other handle-section when the latter is turned, said pin passing through the aperture of the auger shank and fitting in the threaded
55 nut, substantially as described, for the purpose set forth.

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

SIMEON BURD.

Witnesses:

JOHN P. NOEL,
THOS. C. TURNER.