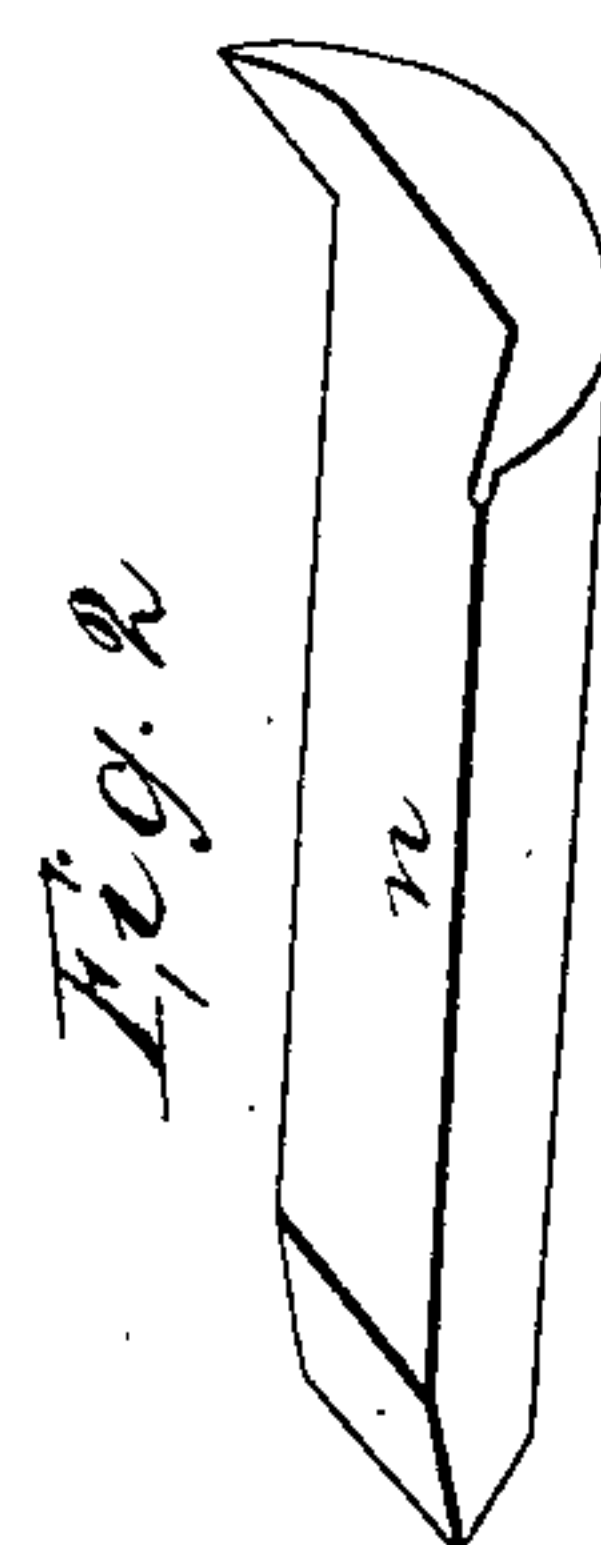
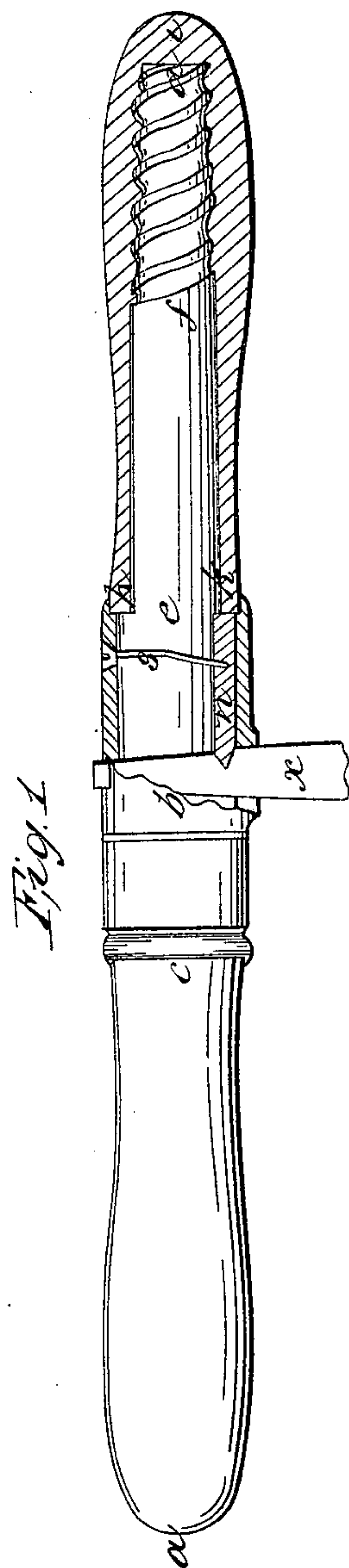


A. Thayer,
Auger Handle.
N^o 7,815. Patented Dec. 3, 1850.



UNITED STATES PATENT OFFICE.

AUGUSTUS THAYER, OF MALDEN BRIDGE, NEW YORK.

AUGER-HANDLE.

Specification of Letters Patent No. 7,815, dated December 3, 1850.

To all whom it may concern:

Be it known that I, AUGUSTUS THAYER, of Malden Bridge, Columbia county, State of New York, have invented a new and useful Augur-Handle, which I Call "Thayer's Improved Augur-Handle;" and I declare the following specification, with the drawing thereto annexed as part thereof to be a full and perfect description thereof.

10 The drawing represents one of my said handles with the upper part of an augur shank in its place the left half of the drawing from *a* to *b* showing the external appearance of the handle to which the right
15 half also corresponds externally, and the right half of the drawing showing a section of the handle vertically through its axis with the internal apparatus thereof.

a, c, e, d represents a solid piece of wood, 20 the front from *a* to *e* being turned of the form usually adopted for augur handles, the part from *c* to *e* of a true cylindrical form of the full thickness for a strong handle, the part from *e* to *f* being cut down to
25 show a small shoulder at *e* and thence of a slight taper and the part from *f* to *d* cut into a screw of three or four turns of the thread.

The part from *c* to *e* is secured by a metal 30 band, as shown in the left hand side of the drawing, the band and wood being pierced to receive the augur shank *X* which passes up through it. A small groove is cut into the lower part of the wood, next the band,
35 so as to receive a steel detent or catch whose shape is shown by Fig. 2 in perspective. It is long enough to extend from the shoulder at *e* into the shank *X* which it penetrates by a wedge shaped point, the
40 shank having a wedge shaped nick cut into it to admit this point. This nick has its sides at an angle more acute to each other than those of the point of the detent to permit the detent to press the augur shank upward as well as to hold it firm. This detent
45 *n* when not pressed into the nick is kept back from entering it, by a small spring, which lies in a small mortise cut through the handle, its upper end being formed into
50 a head screwing into the metal band and its lower end entering a notch in the detent.

The remaining part of the handle consists of *h, i, k*, which is a piece of wood corresponding to the other end of the handle in material and external form, and bored to 55 fit accurately the stem *e, f*, and screws *f, d*, the inner ends of *h* and *k* passing under the metal band a little way.

Operation: It will be readily perceived that when the exterior part is screwed up 60 firmly on the stem *e, d*, its butt *K* will press the detent *n* into the augur shank nick, pressing the shank upward by the inclined edges of the detent and holding it firmly in its place when so pressed up, and that to re- 65 lease the augur it will be only necessary to give a half turn or so of the outer handle *h, i, k* when the spring *S* will retract the detent.

The advantages of this handle above 70 others now made I consider to be a combination of strength and simplicity. The fact that the principal part of the entire handle is in one piece from end to end from *a* to *d* strengthened by a band of metal 75 where the shank socket pierces it instead of being divided into two parts near the center, gives it great strength and the operating parts are few, not liable to get out of repair, of common materials and cheaply 80 made. The handle however may be made of any materials that are convenient for its construction, although for economy wood would be preferred.

I claim—

85 The construction of augur handles substantially as set forth in the above specification, that is by making the principal part of the same from end to end of one piece of wood or material, securing the central por- 90 tion through which the augur shank passes with a metal band and arranging a detent for holding the shank with machinery to operate it as exhibited in the drawings forming part of this specification. The said 95 handle being for use with augurs or any other tools to which it may be adapted.

AUGUSTUS THAYER.

Witnesses:

P. W. GROOT,
R. Y. DE WITT.