(No Model.)

L. H. SARGENT, Jr.

HANDLE FOR AUGERS.

No. 453,667. Patented June 9, 1891.

FIG_1_

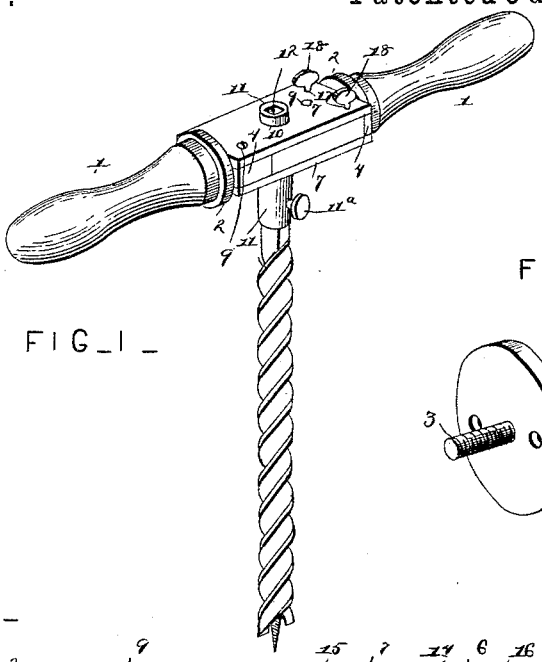


FIG_6_

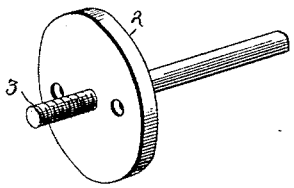


FIG_2_

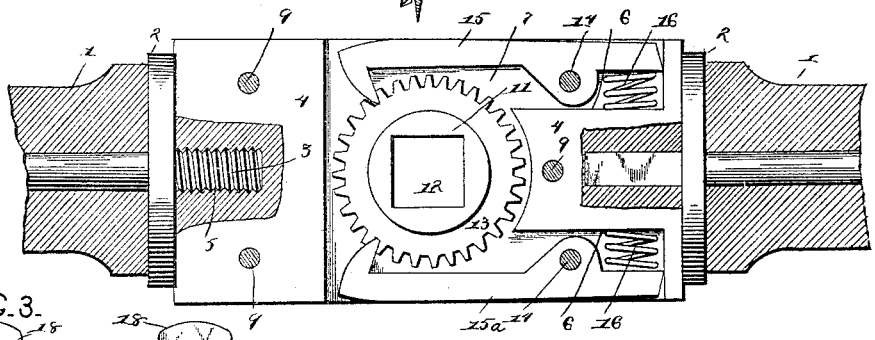


FIG_3_

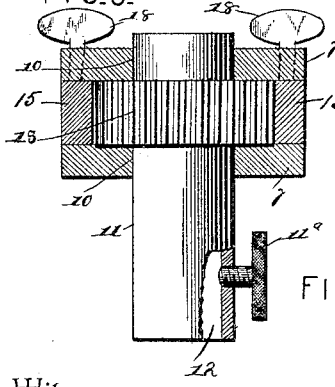


FIG_4_

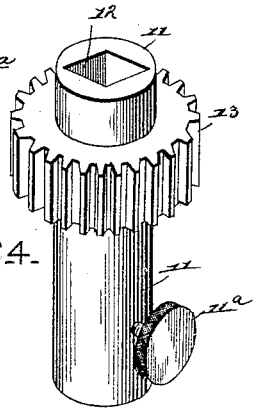
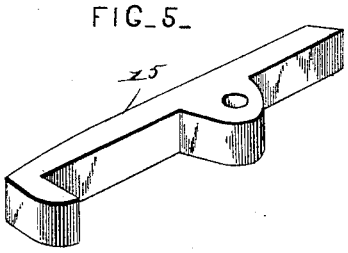


FIG_5_



Witnesses:

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UNITED STATES PATENT OFFICE.

LEMUEL H. SARGENT, JR., OF MASON, WEST VIRGINIA.

HANDLE FOR AUGERS.

SPECIFICATION forming part of Letters Patent No. 453,667, dated June 9, 1891.

Application filed November 5, 1890. Serial No. 370,363. (No model.)

To all whom it may concern:

Be it known that I, LEMUEL H. SARGENT, Jr., a citizen of the United States, residing at Mason, in the county of Mason and State of West Virginia, have invented a new and useful Handle for Augers, of which the following is a specification.

This invention has relation to handles for augers and other boring-tools, the objects in view being to provide a strong and durable handle of the pawl-and-ratchet pattern adapted to be used either singly or doubly and to rotate the auger or boring device in either direction.

Various other objects of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of an auger-handle constructed in accordance with my invention, the same being in operative position. Fig. 2 is a horizontal longitudinal section of the handle. Fig. 3 is a vertical transverse section. Fig. 4 is a perspective in detail of the auger-receiving ratchet-faced stud. Fig. 5 is a detail in perspective of one of the pawls. Fig. 6 is a detail view of the threaded stud on the removable handle.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I employ two opposite handles 1, each of which has secured to its inner end a metal disk 2, from the center of which projects a stud 3, one of which is threaded. Each stud enters an oblong metal block 4, provided with openings 5 in their outer ends for the reception of the studs, and that opening receiving the threaded stud is provided with a thread for removably engaging the same. The metal block 4 of one handle has its opposite sides provided with L-shaped recesses 6, and the two blocks are connected by upper and lower horizontal plates 7, the ends of which are securely bolted to the unrecessed block at its opposite sides and near their centers are bolted to the center of the recessed block, as at 9. The opposite plates are provided with corresponding circular openings 10, and in the same is mounted for rotation a stud 11, having a cylindrical exterior and a rectangular bore 12, adapted to fit the head of an auger or other boring-tool, and provided with a set-screw 11^a for binding said head in position. Between the plates the stud is provided with a ratchet-boss 13.

Upon bearing-pins 14, extending through the two plates opposite the recesses of one of the blocks 4, is pivoted a pair of pawls 15 and 15^a, the working ends of the pawls being adapted for engagement with the ratchet of the boss, and their rear ends extending beyond their pivots and pressed outwardly by means of a pair of short coiled springs 16 interposed between the rear extensions of the pawls and the opposite sides of the block, so that the working faces or ends of the two pawls are pressed by the springs into engagement with the ratchet. The upper plate is provided near its opposite corners with threaded perforations 17, and mounted in each is a binding-screw 18.

If it is desired to operate the auger from left to right, as in the act of boring, the pawl 15^a is pressed by the finger of the operator in rear of its pivot and the binding-screw operated so that its inner end binds upon the pawl and maintains the same against the tension of its spring against closing into engagement with the ratchet. Now by operating the handle in the usual manner the pawl 15 will serve to draw the ratchet around when moved in one direction and to ride over the same when moved in the opposite direction. In the act of unscrewing or withdrawing the auger the pawl 15 is thrown out of engagement and the pawl 15^a engaged.

It will be apparent in instances where there is not sufficient space to use the full-sized handle, one of the handles may be unscrewed and the device operated with but one handle.

It will be observed that the pawls are easily set either for feeding or withdrawing the bit of the auger and that the same is strong and durable and very efficient.

Having described my invention, what I claim is—

1. In an auger-handle, the combination, with the central plates having the opening, the hollow stud mounted for rotation in the opening and bored to receive an auger or other similar tool, and between the plates provided with a ratchet-boss, of a pair of pawls

pivoted between the plates and spring-pressed into engagement with the ratchet, a pair of binding-screws mounted in one of the plates and bearing against the pawls, and opposite handles connected with the plates, substantially as specified.

2. In combination with the opposite plates, the blocks located between the opposite ends of the same and having threaded openings, one of said blocks having its opposite sides recessed, the hollow stud mounted for rotation in the openings of the plates and provided between the plates with a ratchet-boss, a pair of pawls pivoted in the recesses at their front ends and engaging the ratchets and at their rear ends extended beyond their pivots, small coiled springs interposed between the rear ends and the inner wall of the recess, the opposite set-screws passed through threaded perforations formed in one of the plates and adapted to bear upon the pawls in rear of their pivots, the opposite handles, the disks secured to the handles, and the threaded studs passed through the disks and taking into the threaded openings in the blocks and bearing upon the pawls in rear of their pivots, substantially as specified.

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

LEMUEL H. SARGENT, JR.

Witnesses:

GEORGE H. DORSEY,

JNO. T. GREEN.