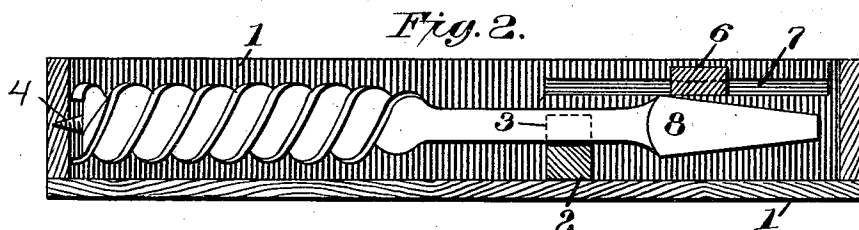
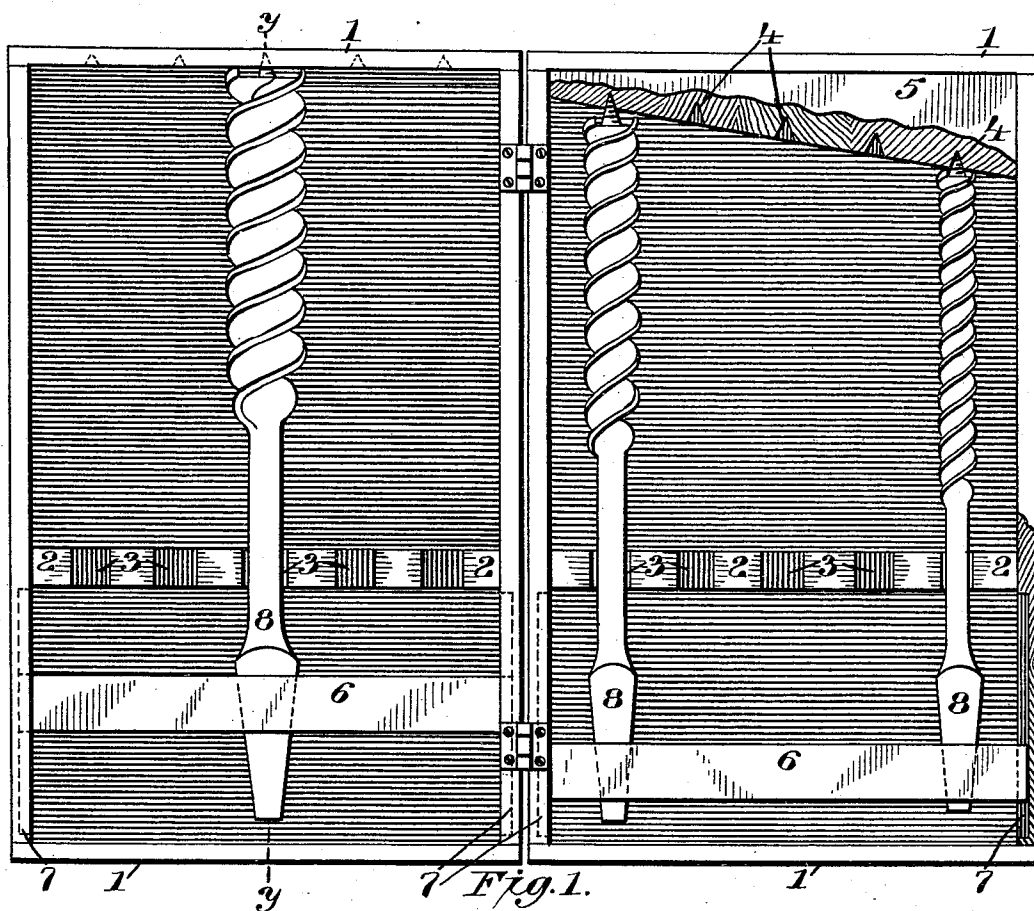


I. J. BOOTH.
BOX FOR BITS.

Patented July 19, 1892.



WITNESSES;

Wm. J. Tanner
A. J. Tanner

INVENTOR,

Isaac J. Booth

 BY

J. H. Hubbard
ATTORNEY.

UNITED STATES PATENT OFFICE.

ISAAC J. BOOTH, OF BIRMINGHAM, CONNECTICUT.

BOX FOR BITS.

SPECIFICATION forming part of Letters Patent No. 479,180, dated July 19, 1892.

Application filed February 25, 1891. Renewed December 21, 1891. Serial No. 415,718. (No model.)

To all whom it may concern:

Be it known that I, ISAAC J. BOOTH, a citizen of the United States, residing at Birmingham, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Boxes for Packing Bits; 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.

This invention relates to certain new and useful improvements in boxes or cases for holding augers and bits, and has for its object to provide a device of this description capable of containing a considerable number of bits, so that they may be securely held for purposes of shipment, but in such manner that the bits may be readily removed and replaced. In addition to its use as a packing-box for shipment my improved box is designed to hold the bits as a permanent receptacle, from which they may be taken for use and into which they may be returned for safe keeping; and with these ends in view my invention consists in the construction and combination of elements hereinafter fully described, and then recited in the claims.

In order that those skilled in the art to which my invention appertains may fully understand its construction and the method of its use, I will describe the same in detail, reference being had to the accompanying drawings, and the numerals marked thereon, which form a part of this specification.

Figure 1 shows in plan view a double bit-box constructed in accordance with my invention, certain parts being broken away. Fig. 2 is a longitudinal section upon the line *y y* of Fig. 1.

1 is a rectangular box somewhat longer than the bits to be retained therein and of such width as convenience may dictate.

2 is a transversely-arranged bar having notches or seats 3 formed therein for the reception and support of the bit-shanks. In the end wall of the box are formed small seats 4 for the reception of the points of the

bits. Where the box is designed to contain bits of uniform length, the plain rectangular box shown at the left of Fig. 1 fulfills the purposes of my invention; but where bits of assorted lengths are to be packed I insert into the box an oblique-faced block 5, in which are formed the seats heretofore referred to.

6 is a locking-bar, whose ends are held in slots 7, formed in the side walls of the box, or in other suitable ways, so that said bar may be moved longitudinally in the box. The plane in which this locking-bar moves is slightly higher than the plane of the bar 2 hereinbefore referred to. To insert the bits within the box, the locking-bar is first withdrawn to the rear end of its slideway. The points of the bits are then inserted in the seats in the end wall and the shanks dropped into the notches in the stationary cross-bar, or vice versa. The locking-bar is then pushed forward until it engages and rides upon the squared and tapered rear ends of the bits, which are denoted by the figure 8. The bar thus holds them firmly in place by its wedging action; but it will be readily understood that it is only necessary to back off the locking-bar in order to release them. In order that the locking-bar may engage and securely hold each bit, the squared ends of the shanks should be in line. Hence the necessity for the inclined block 5 heretofore referred to when assorted lengths are used, and in order that the inclined ends of the shanks should be equally engaged by the locking-bar the notches 3 should be of such depth as to bring the upper faces of the inclined and squared ends in the same horizontal plane.

Either single or double boxes may be made, and details of construction may be varied without departing from the essentials of my invention.

I claim—

1. In a box for packing bits, the combination, with a notched bar adapted to support the bit-shanks and means for holding the bit-points, of a guided and longitudinally-movable locking-bar adapted to engage the

squared and tapered rear ends of the bits, substantially as described.

2. In a bit-packing box, the combination of the transverse fixed bar adapted to support
5 the shanks, the longitudinally-movable lock-bar, and an inclined end wall or block having seats for the points of the bits, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ISAAC J. BOOTH.

Witnesses:

WM. SIDNEY DOWNS,
CHARLES N. DOWNS.