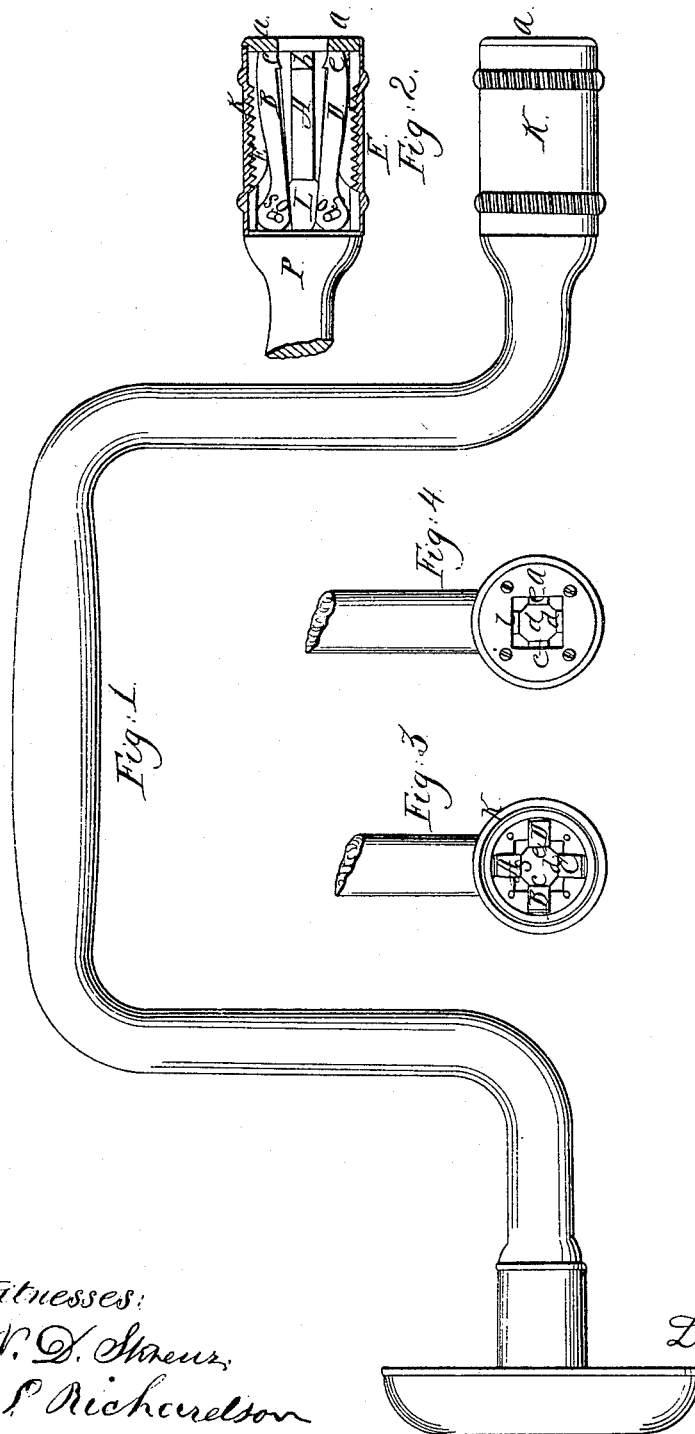


D. W. Goodell,

Bit Stock.

N^o 51,173.

Patented Nov. 28, 1865.



Witnesses:
W. D. Starnes,
Mr P. Richardson

Inventor:
D. W. Goodell
by his attorney
J. B. Gortner

UNITED STATES PATENT OFFICE.

D. W. GOODELL, OF NORTHAMPTON, MASSACHUSETTS.

IMPROVEMENT IN BIT-STOCKS.

Specification forming part of Letters Patent No. 51,173, dated November 28, 1865.

To all whom it may concern:

Be it known that I, D. W. GOODELL, of Northampton, Hampshire county, Commonwealth of Massachusetts, have invented certain Improvements in Bit-Holders for Bit-Stocks; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to letters of reference marked thereon.

In the drawings, Figure 1 shows a full-sized stock with my improved bit-holder attached. Fig. 2 is a cross-section showing the construction of the holder. Fig. 3 is a partial end view, and Fig. 4 the same with the cores *a* removed.

My invention consists of an arrangement by which a bit may be firmly held in a brace or bit-stock, and at the same time it may be quickly and readily closed and opened so as to hold or release the bit. This I accomplish in the following manner:

I will first describe the construction. It consists of four pieces, A B C D, which have projections, *b c d e* which catch into corresponding notches in the bit-shank. These pieces are forced inward by the sliding pieces E F G H, which are moved by the cap K, which has a screw cut in its interior, the threads of which fit in a similar screw cut on the pieces E F G H, and thus by turning the cap the slides E F G H are moved outward, forcing in the pieces A B C D. These are kept outward, when not thus forced in, by a rubber spring, L.

The operation of this invention is very simple. A slight motion of the cap K in one direction is sufficient to fasten and in the other to release the bit-shank, as will readily be seen from its construction; and thus I accomplish, in a simple, compact arrangement, and consequently an economical one, all that is desirable in a bit-holder, namely: perfect security of the bit while held and ease and quickness in fastening and releasing the same.

The pieces A B C D hang on pins *o o' o'' o'''*, and have slots *s s' s'' s'''*, so arranged as to allow these pieces to adjust themselves to the form of shank introduced.

In this arrangement I do not wish to confine myself to the exact number of pieces A B C D here used, but a greater or less number may be used if desired; neither is it necessary to form the spring L of rubber, though more convenient; but

What I do claim as new, and desire to secure by Letters Patent, is—

The combination of one or more pieces, A, B, &c., with one or more pieces, E, F, &c., spring L, cap K, and stock P, when arranged substantially in the manner and for the purpose herein set forth.

D. W. GOODELL.

Witnesses:

J. B. GARDINER,
W. D. STEVENS,
W. L. RICHARDSON.