O W. STOW.

Bit-Stock.

No. 218,593. Patented Aug. 12, 1879.

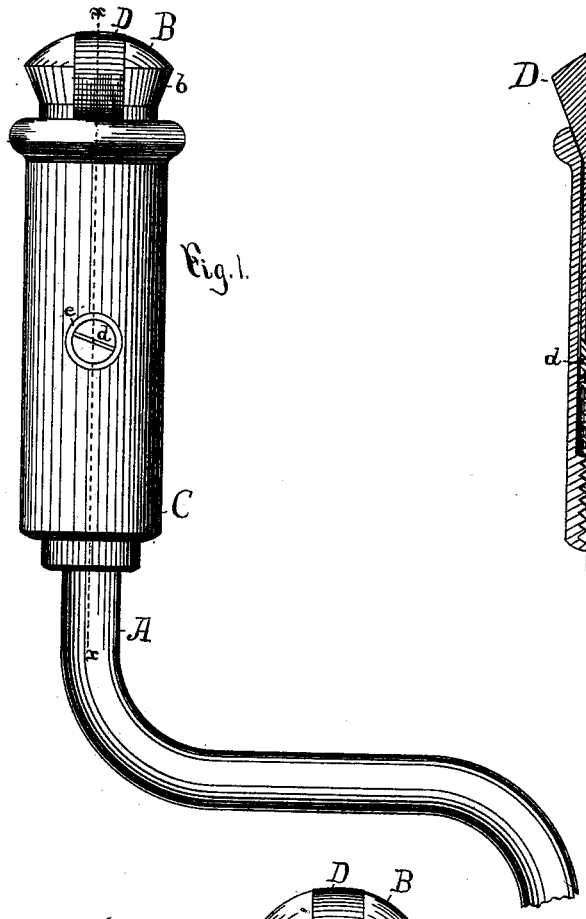

Fig. 1.

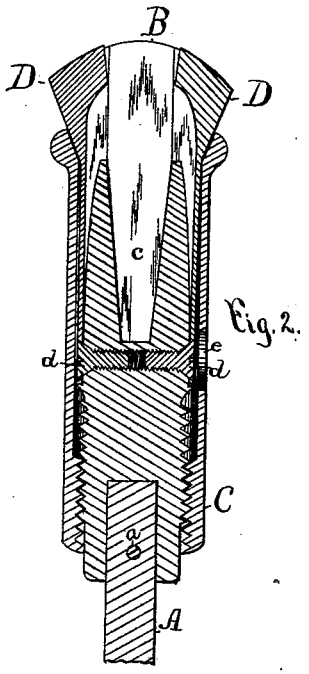

Fig. 2.

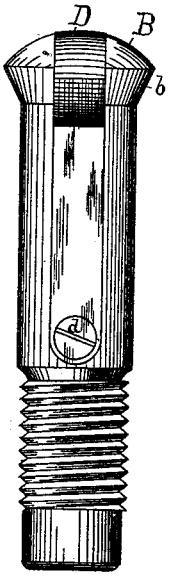

Fig. 3.

Witnesses.
W. B. Thomson.
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Inventor.
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UNITED STATES PATENT OFFICE.

ORSON W. STOW, OF PLANTSVILLE, ASSIGNOR TO PECK, STOW & WILCOX COMPANY, OF SOUTHINGTON, CONNECTICUT.

IMPROVEMENT IN BIT-STOCKS.

Specification forming part of Letters Patent No. **218,593**, dated August 12, 1879; application filed June 19, 1879.

To all whom it may concern:

Be it known that I, ORSON W. STOW, of Plantsville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Bit-Stocks, of which the following is a specification.

My invention consists of the peculiar combinations of parts, some of which are peculiarly constructed for said combinations, all as hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a bit-stock which embodies my invention. Fig. 2 is a longitudinal section of the same on line *x x* of Fig. 1, and Fig. 3 is a side elevation of detached parts thereof.

The bow or body A of the brace may be of any ordinary kind. The head B is provided at its base with a recess or socket to receive the end of the bow A, which is secured thereto by means of the pin *a*, or in other suitable and ordinary manner. This head is screw-threaded at its foot to receive the screw-sleeve C, and at its upper end is provided with a swell or stop, *b*, larger than the inside diameter of the screw-sleeve, so as to effectually prevent the screw-sleeve from being turned off at the upper end of the head, even when the jaws are fully closed or entirely removed.

The interior base of the head is provided with a rectangular tapering socket, *c*, adapted to receive and hold the end of a tang of a bit. Above this socket the head is slotted through transversely to receive the upper ends of the spring-jaws D D, the lower ends of which are thin, so as to act as springs, which lower ends rest in shallow recesses or slots in the side of the head. These jaws are secured to said head by means of screws *d d*, passing through their lower ends and into the body of the head.

The upper ends of the jaws have outwardly-inclined projections, which act on the inside and outer end of the sleeve, while their inner face is adapted to engage the bit-tang just below its shoulder, as in ordinary bit-stocks of this class.

The jaws are secured to the head before it is permanently secured to the bow A, and preferably before the sleeve is secured, as shown in Fig. 3, which represents said head and jaws before the sleeve is screwed on. After the sleeve has been put in place the head is put upon the bow and the two secured together, after which the screw-sleeve cannot be removed without first detaching the head from the bow.

In case a jaw should break, or for other reason it is desired to remove a jaw and insert it or a new one, the sleeve covers up the point where they are screwed to the head, so that unless some provision is made there can be no access to said screws without removing the sleeve. I therefore make an orifice, *e*, in one side of the screw-sleeve, and at a point where it may readily be brought directly in front of the screws, one at a time, as represented in Figs. 1 and 2, through which orifice a screw-driver may be inserted to remove the screw, and then the jaw may be slipped endwise out at the end of the sleeve and a new one inserted and secured.

I am aware that hinged jaws have been placed in a head having an internal rectangular tapering socket, and combined with a screw-sleeve for closing said jaws, and I hereby disclaim the same.

I claim as my invention—

1. In a bit-brace, the head B, having jaws D D secured thereto by means of screws at their lower end, in combination with the bow of the brace and the screw-sleeve C, having the side orifice, *e*, located with special reference to being brought in front of the screws which hold the jaws, substantially as described, and for the purpose specified.

2. In a bit-brace, the head B, having a cylindrical threaded periphery, and the stop *b* at its outer end, in combination with the screw-sleeve moving longitudinally on the cylindrical portion of said head back of said stop, substantially as described, and for the purpose specified.

ORSON W. STOW.

Witnesses:
J. BOND,
S. R. SHEPARD.