

A. B. BATSON.
Bit-Gage.

No. 169,075.

Patented Oct. 26, 1875.

Fig: 1.

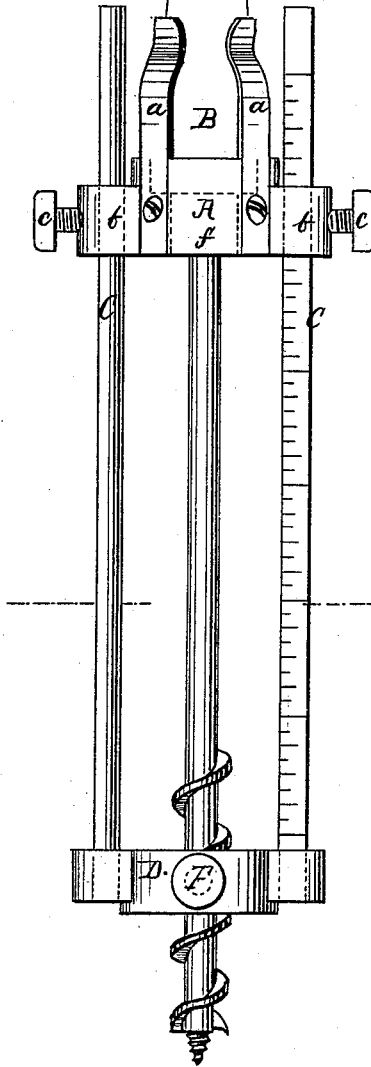
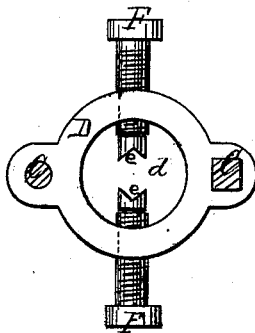


Fig: 2.



Witnesses:
Henry Cichling.
B. E. Clark

Inventor:
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By *Wick & Wick*
His Atty's.

UNITED STATES PATENT OFFICE.

ALONZO B. BATSON, OF NEWCASTLE, INDIANA.

IMPROVEMENT IN BIT-GAGES.

Specification forming part of Letters Patent No. **169,075**, dated October 26, 1875; application filed September 27, 1875.

To all whom it may concern:

Be it known that I, ALONZO B. BATSON, of Newcastle, Henry county, State of Indiana, have invented an Improvement in Bit-Gages, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof.

My invention consists in a socket or head provided with spring-clasps, into which the brace-head is fitted and held in place, arranged to slide and be adjusted upon side bars provided at their lower end with a foot-piece or guard, through which the bit extends, whereby the foot-piece or guard may be adjusted at any desired distance from the point of the bit, and thus boring to any exact depth desired effected.

Figure 1 is a front elevation of my gage, showing it adjusted upon a brace head and bit. Fig. 2 is a plan of the foot-piece or guard.

A is the socket or head, into which fits the brace-head B, and is provided with the spring-clasps *a*, arranged to hold the brace-head securely in its seat in the socket. The socket has a central opening, *f*, through which the bit passes. The socket A is arranged to slide up and down on the side bars C by means of the lugs *b*, through which the said bars pass, one on either side, and is held adjusted at any desired position on the said bars by means of the set-screws *c*. Upon the lower end of the

bars C is fixed the foot-piece or guard D, which is preferably made circular, with the central opening *d*, through which the bit-point extends, as shown. The said guard D is preferably provided with the set-screws F, as shown, carrying on their interior ends the small swivel-mounted jaws *e*, whereby the bit may be held centrally within the guard, and the gage firmly secured to the bit during the operation of boring, the said jaws *e* readily engaging with the flange of the bit.

For convenience in adjusting the gage one of the side bars may be marked with a scale of inches, as shown.

Instead of employing two side bars one may be used, upon which the socket may be arranged to slide and be adjusted, and the foot-piece or guard may be made semicircular, if desired, instead of in the form of a continuous circular collar; or the side bars may have slots and slide upon the set-screws *c*.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, as a bit-gage, of the socket-head A, with its opening *f* and spring-clasps *a*, the lugs *b*, and set-screws *c*, the side bars C, and the foot-piece D, as described.

ALONZO B. BATSON.

Witnesses:

J. T. ELLIOTT,
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