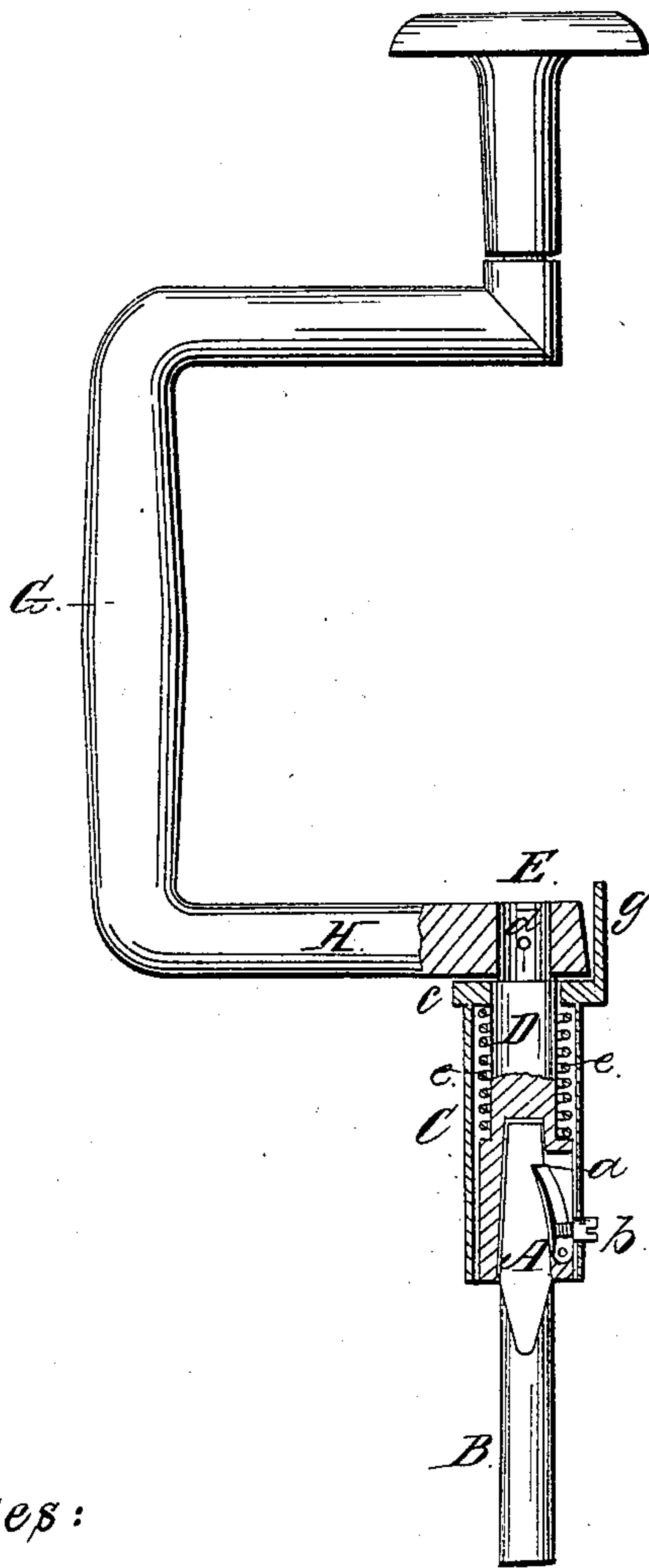


S. W. Davis,

Bit Stock.

N^o 81,200.

Patented Aug. 18, 1868.



Witnesses:

Jm A Morgan

G B Cotton

Inventor:

S W Davis.

*per Muny &
Attorneys*

United States Patent Office.

S. W. DAVIS, OF WILMINGTON, DELAWARE.

Letters Patent No. 81,260, dated August 18, 1868.

IMPROVEMENT IN BIT-STOCKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, S. W. DAVIS, of Wilmington, in the county of New Castle, and State of Delaware, have invented a new and improved Bit-Brace; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

The drawing represents a side view of my improved bit-brace, with the bit-holding devices shown in section.

The object of this invention is to provide a simple and efficient bit-brace.

It consists of the combination of devices herein shown and described.

In the drawings, G is the ordinary bit-stock or brace.

My improvements relate to the manner of fastening the bit, for which purpose I employ the case or sleeve C, having a shoulder, *c*, which fits on the shank D, which is affixed to the part H of the brace, by means of the reduced end E of the shank D, fitting in a hole in the part H, and being keyed therein by a tapering pin or key, *d*.

The sleeve C slides freely on the shank D, against the tension of the spring *e*, coiled around the said shank, as shown.

The front end of the shank is enlarged to fit the bore of the sleeve, and is formed with a square cavity, to receive the square end A of the bit B.

A pawl, *a*, is pivoted in the lateral mortise-shaped cavity, and opens into the end cavity of the shank, being so arranged that the pawl will catch in the notch of the bit, as shown, and prevent it from being withdrawn.

A stud or projection, *b*, from the pawl, passes loosely through a hole in the sleeve C, being so arranged that when the said sleeve is pushed forward, the edge of the hole will encounter the projection *b*, and cause the end of the pawl to be raised from the notch in the bit, so that the latter may be withdrawn.

The sleeve is held back against the part H by the tension of the coiled spring, and the opposite edge of the hole from that which acted to raise the pawl will act to depress the end of the pawl, and hold it in the notch.

Thus the coiled spring serves to bear the free end of the pawl in the notch when the brace is being used in boring.

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

The combination of the shank D, and spring *e* coiled thereon, the movable sleeve C, pawl *a*, and projection *b*, in a bit-stock, H G, all substantially as shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 26th day of June, 1868.

S. W. DAVIS.

Witnesses:

THOMAS YOUNG,

H. MORROW.