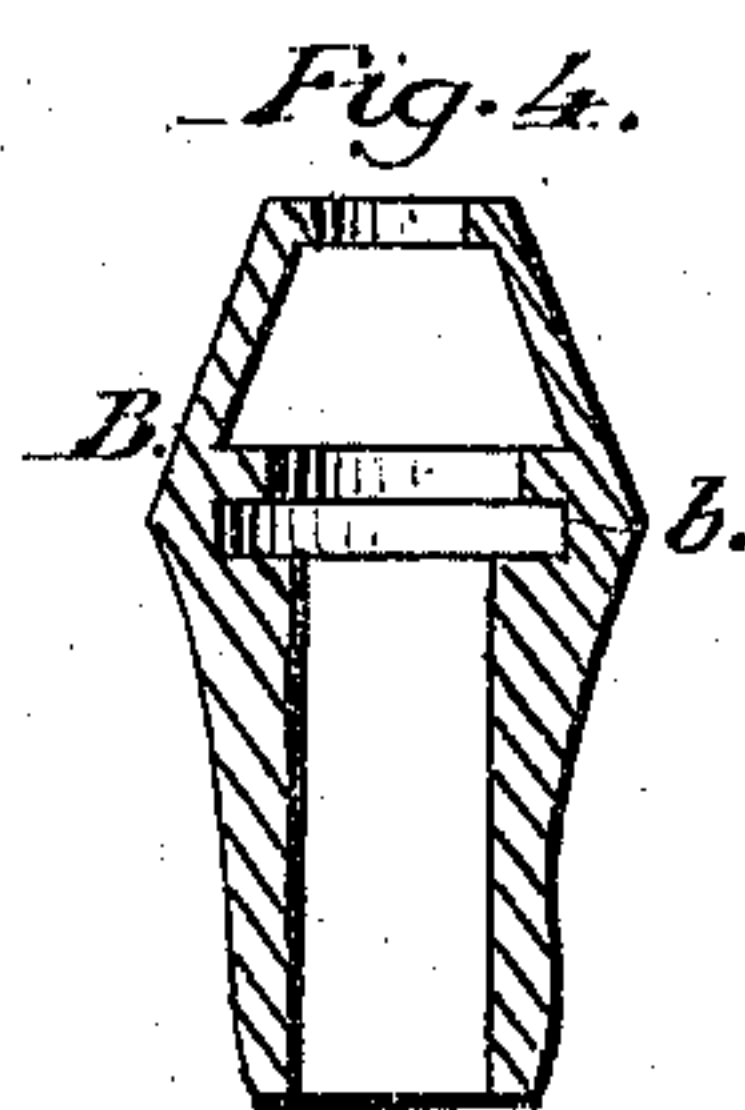
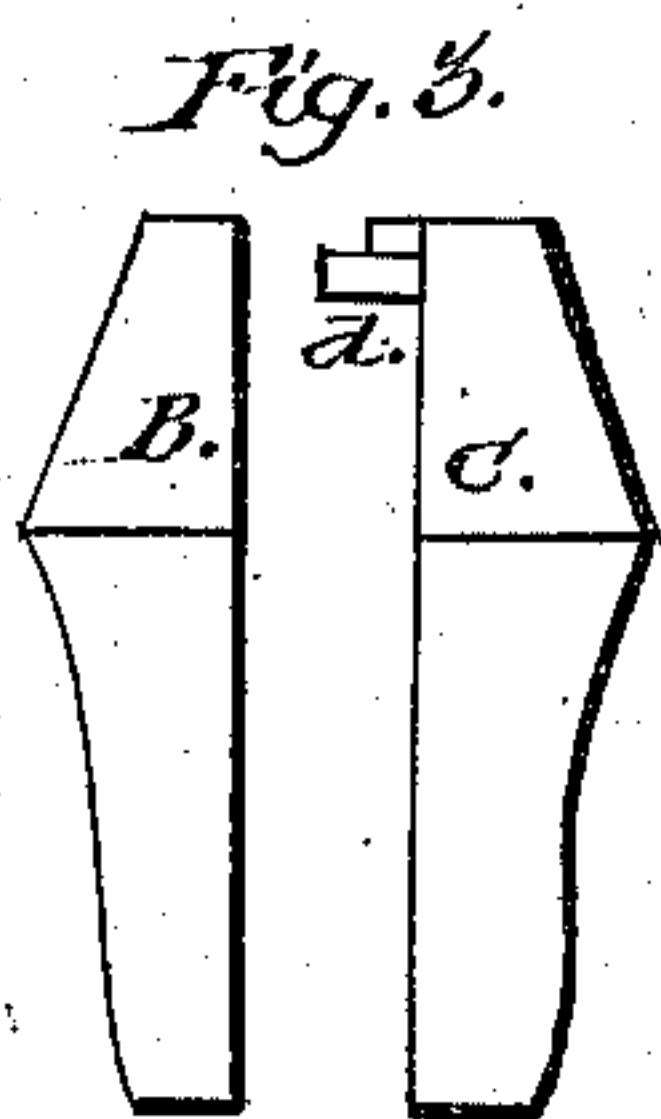
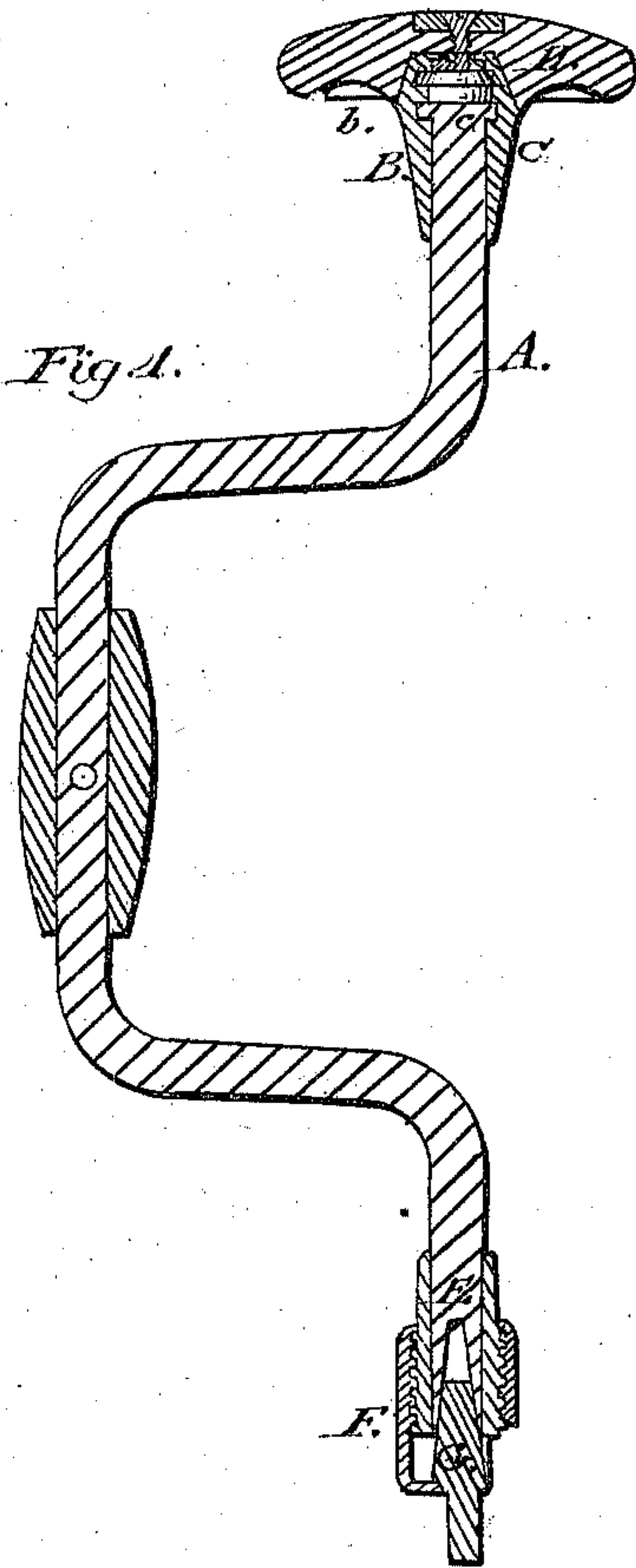


*D. P. Foster,*

*Bit Stock*

*No. 89755.*

*Patented May 4, 1869.*



*Witnesses:*  
*P. J. Dodge*  
*Geo. F. Grubel*

*Inventor:*  
*D. P. Foster*  
*by Dodge & Munn*  
*attorneys*



DAN P. FOSTER, OF WALTHAM, MASSACHUSETTS.

*Letters Patent No. 89,755, dated May 4, 1869.*

**IMPROVEMENT IN BIT-STOCK**

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, DAN P. FOSTER, of Waltham, in the county of Middlesex, and State of Massachusetts, have invented certain new and useful Improvements in Bit-Stocks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention relates to improvements in bit-stocks.

In the drawings—

Figure 1 is a longitudinal vertical section.

Figure 2 is a side view of the lower end of the bit-stock.

Figure 3 is a view of the parts used in forming the joint or swivel in the head.

Figure 4 is a front view of one of these parts, and

Figure 5 is an end view of the device for clamping and holding the bit.

I make my bit-stock in the usual form. The upper

end A of the tube or wire of which it is made, I provide with a projection *b*, and around this end I fit loosely two pieces, B C, which have a recess C, into which the projection *b* enters, and fits as shown in fig. 1. One of these pieces, C, I provide with a projection *d*, which fits into a recess in the other piece B. The top of the two pieces, B C, when brought together around the end A of the bit-stock, fits into a recess of the head D. When brought together in this manner I fasten them by means of the screw *e*, as shown in fig. 1, and in this way secure a joint or swivel within the head of my bit-stock.

By this arrangement I am enabled to make a cheap and simple bit-stock, with a joint or swivel in the head.

Having thus described my invention,

What I claim is—

Securing the head D to the stock A, by means of the tubular pieces B C, constructed, arranged, and operating substantially as described.

DAN P. FOSTER.

Witnesses:

P. R. FOSTER,

JOSEPH HOSKIN.