

J. A. Nellis,

Bit Stock.

N^o 62,057.

Patented Feb. 12, 1867.

Fig 1

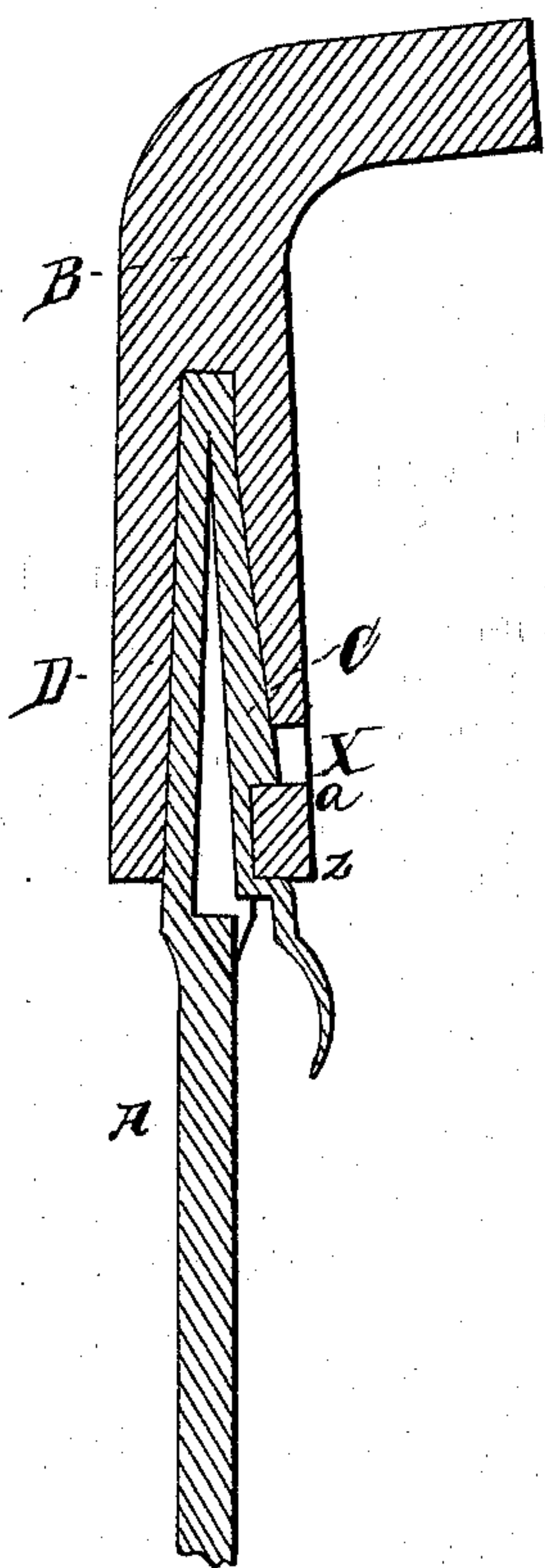
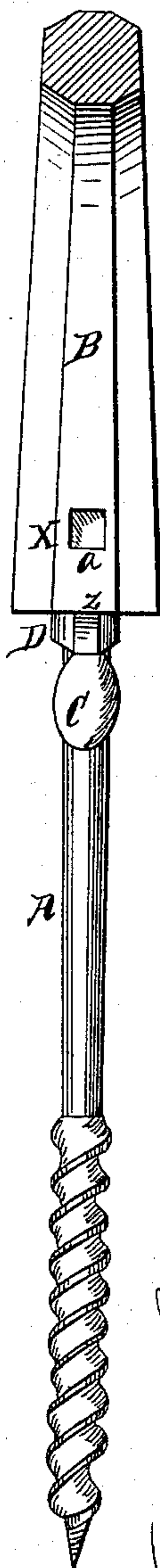


Fig 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN H. NELLIS, OF RICHMONDVILLE, NEW YORK.

IMPROVEMENT IN ATTACHING BITS TO BRACES.

Specification forming part of Letters Patent No. **62,057**, dated February 12, 1867.

To all whom it may concern:

Be it known that I, JOHN H. NELLIS, of Richmondville, in the county of Schoharie and State of New York, have invented certain new and useful Improvements in Connecting Auger-Bits to Bit-Stocks; and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon, making a part of this specification.

In the annexed drawings, A represents the auger-bit, which is of the ordinary manufacture, but having its shank D made somewhat longer than the usual length. A groove is made within this shank, into which is inserted the spring C, and which is firmly secured at the top portion of the shank. This spring distends from the bottom of the shank, where is made a square notch in the spring, which of itself forms two shoulders. It will be observed that this spring has a small pad at its end, which is below the end of the shank, and below the bit-stock when the same is connected to the auger. This pad is to operate the spring, so as to detach the stock when required.

B represents the bit-stock, which, by means of its square opening, is placed over the bit-shank D. X represents a small opening near the bottom of the stock, and into which the spring catches. The auger is detached from the stock by merely pressing the spring and slipping it out of the opening.

When the stock is attached to the auger the two are firmly and securely held together by means of the spring and opening X between the points *a* to *z*. This device greatly simplifies the bit-stock, and holds the two together when in boring, as well as when the same is being withdrawn.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A bit having a groove with the spring C constructed as described, and operating in the manner substantially as specified.

As evidence that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

JOHN H. NELLIS.

Witnesses:

SEWELL LE VALLY,
EMERY D. NELLIS.