

A. BECK.
Wrench.

No. 208,057.

Patented Sept. 17, 1878.

Fig. 1

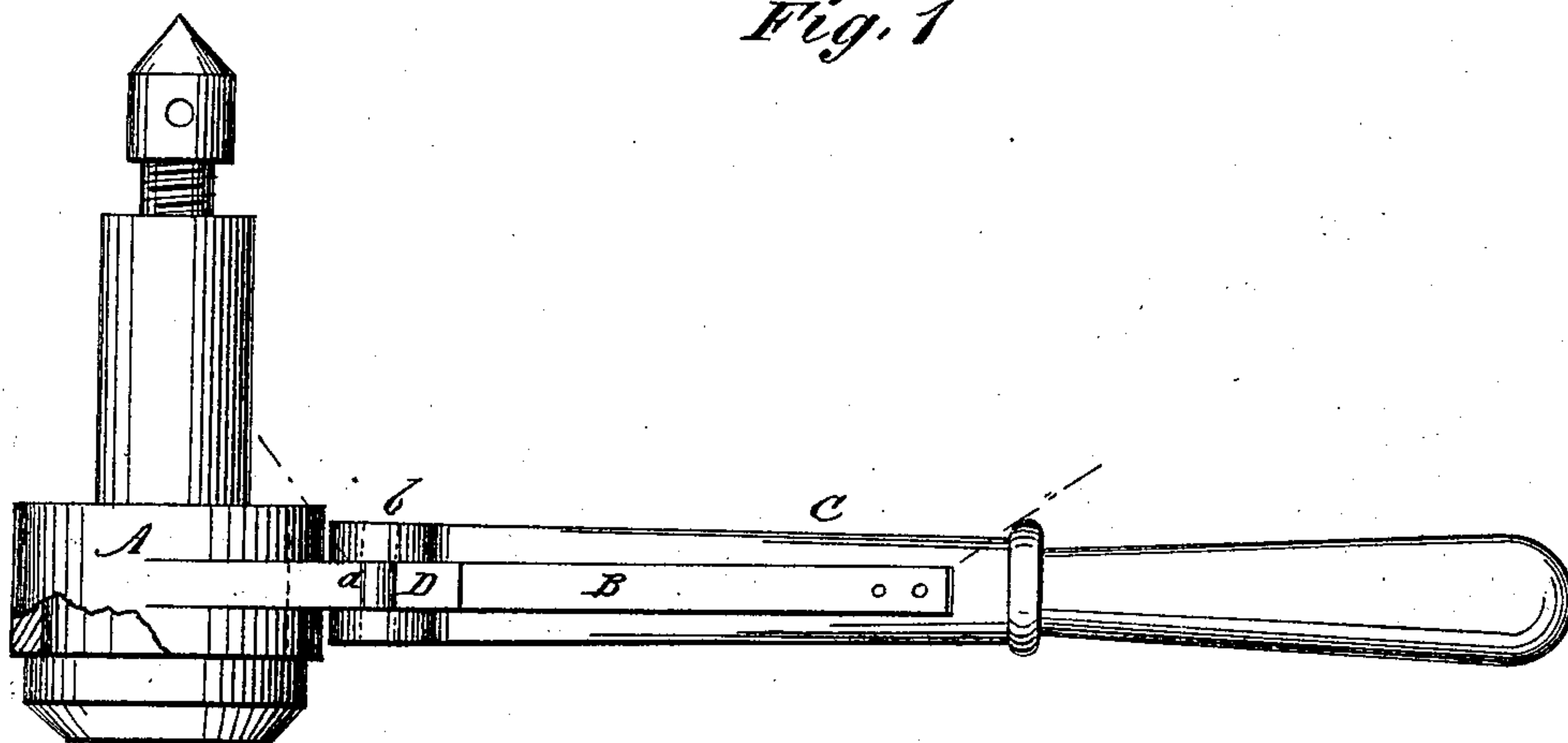


Fig. 2

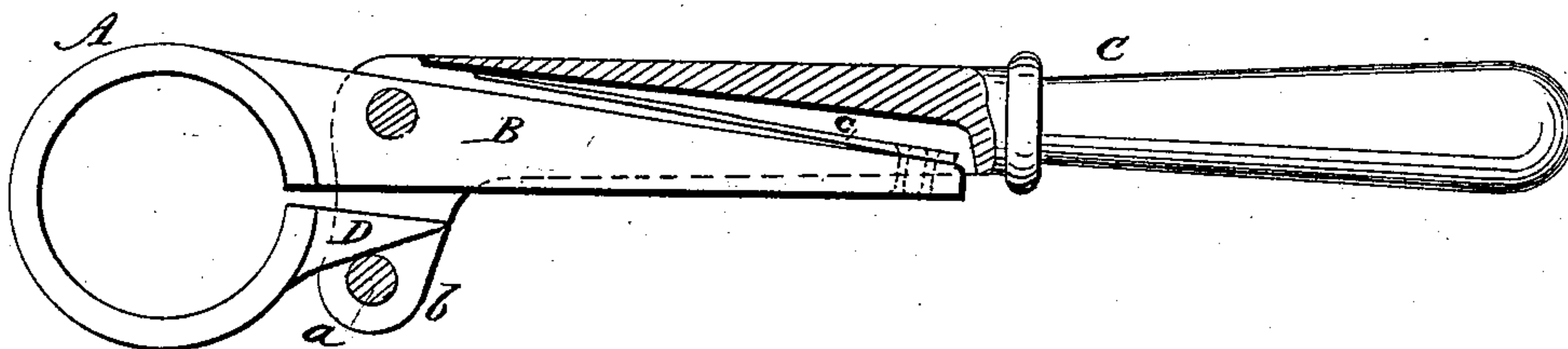
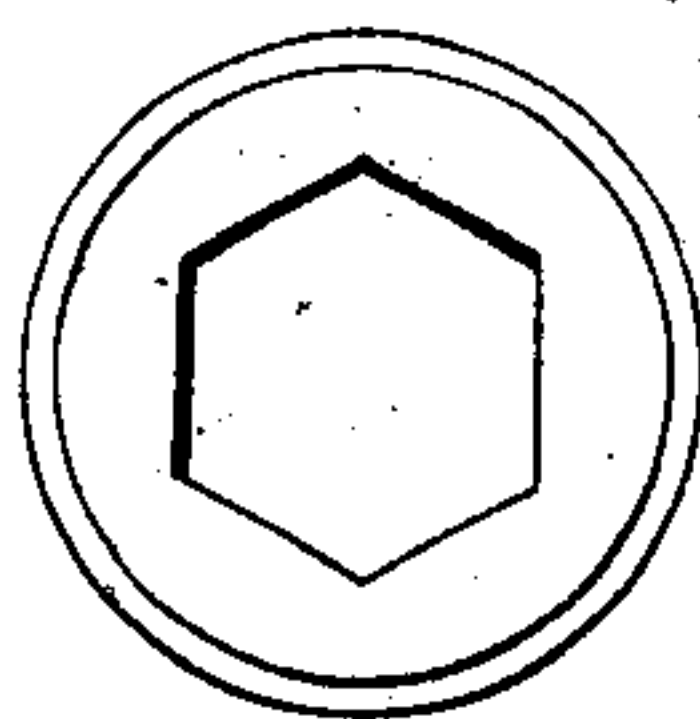


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

AUGUST BECK, OF NEW YORK, N. Y.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **208,057**, dated September 17, 1878; application filed August 6, 1878.

To all whom it may concern:

Be it known that I, AUGUST BECK, of the city, county, and State of New York, have invented a new and Improved Wrench, of which the following is a specification:

Figure 1 is a side elevation of my improved wrench as applied to a ratchet-drill, a part being broken away to show how the wrench-bush is held in position. Fig. 2 is a plan view, partly in section. Fig. 3 is a detail view of a bushing for adapting the wrench to bolts and nuts.

Similar letters of reference indicate corresponding parts.

My invention consists in a split ring or friction-strap having at one side of the split an arm that is pivoted in a lever-handle, and having at the other side of the split an inclined plane, which is acted on by a pin in a short double arm that projects from the lever-handle. The wrench is provided with a split ring, whose elasticity expands and causes the handle to be retracted, so as to loosen the gripe upon the object held.

In the drawing, A is a split ring formed on the end of an arm, B, which is pivoted in the lever-handle C, the said lever-handle being grooved longitudinally to receive it.

The arm B is at one side of the split in the ring, and an inclined plane or wedge, D, projects from the ring at the opposite side of the split, and is engaged by a pin, *a*, that passes through a double arm, *b*, which projects from

the pivot end of the lever-arm C at right angles and straddles the inclined plane or wedge D. A spring, *c*, is secured to the longer or free end of the arm B, and presses against the lever-handle C, throwing the wedge D away from the pin *a*.

The split ring A is fitted to any object which it is desired to turn, such as a drill-stock, as shown in Fig. 1, or the bushing shown in Fig. 3, which is adapted to the heads and nuts of bolts. A forward movement of the hand-lever brings the pin *a* into engagement with the inclined plane D, and thus contracts the ring, when a further forward movement results in turning the object to which the split ring is fitted.

This wrench may be used for turning in a right or left handed direction, and it may be applied to drill-stocks and jack-screws.

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

The combination, with the recessed handle C, having double arm *b* and cross-pin *a*, of the pivoted spring-pressed arm B, provided with spring-ring A, and with a wedge on one of the open ends of ring opposite to the arm B, as shown and described.

AUGUST BECK.

Witnesses:

JAMES H. HUNTER,
GEO. M. HOPKINS.