(No Model.)

D. J. HURLEY.

CORK PULLER.

No. 372,266. Patented Oct. 25, 1887.

Fig. 1.

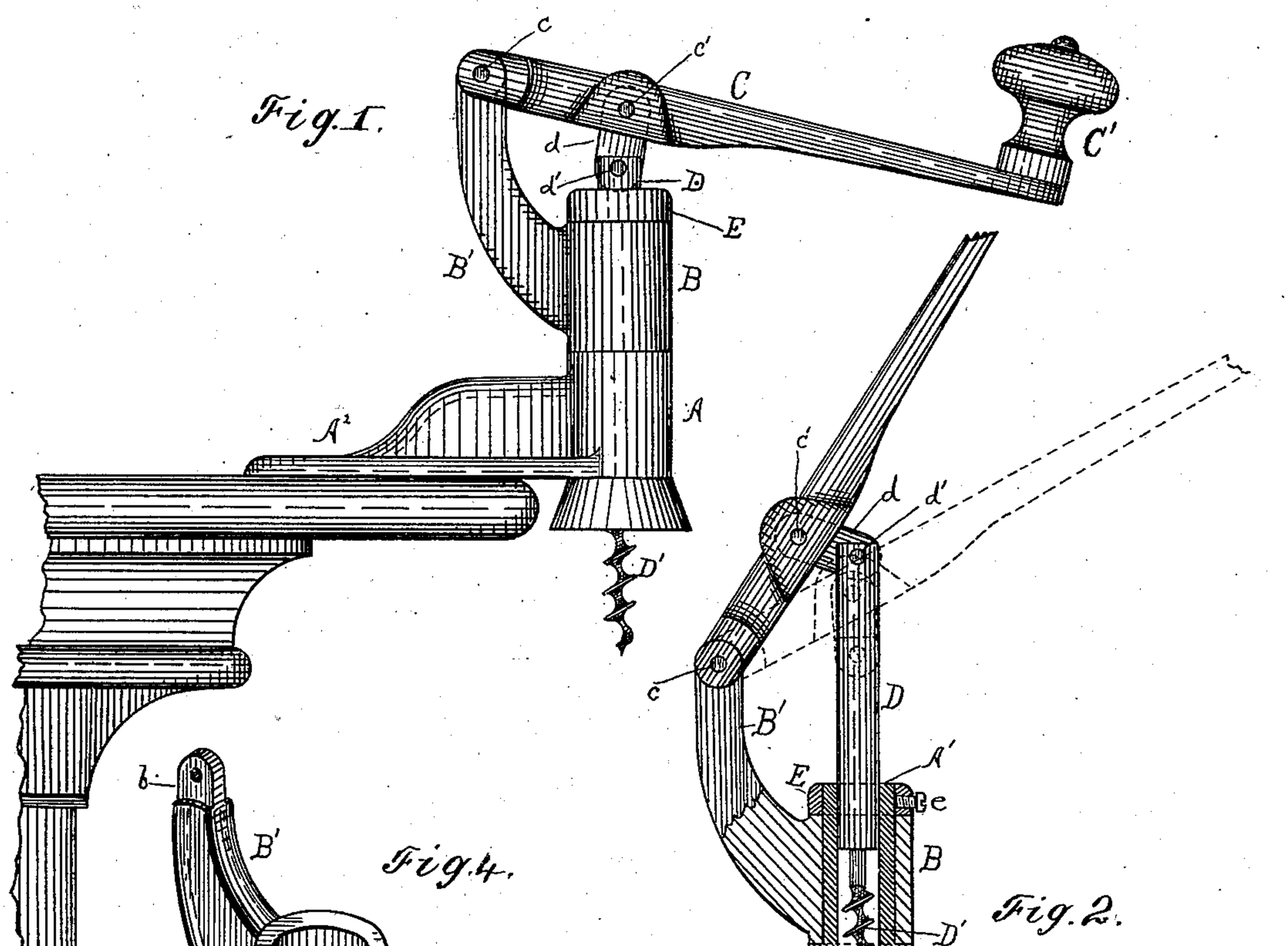

Fig. 4.

Fig. 2.

Fig. 5.

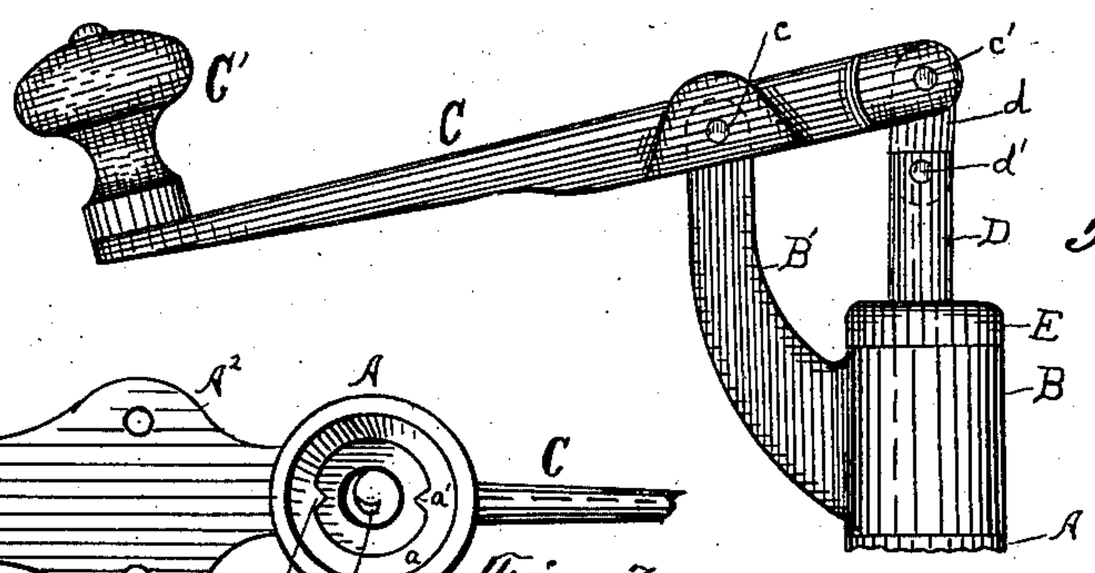

Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

DANIEL J. HURLEY, OF ERIE, PENNSYLVANIA.

CORK-PULLER.

SPECIFICATION forming part of Letters Patent No. 372,266, dated October 25, 1887.

Application filed July 9, 1886. Serial No. 207,592. (No model.)

To all whom it may concern:

Be it known that I, DANIEL J. HURLEY, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Cork-Pullers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to cork-pulling machines; and it consists in certain improvements in the construction thereof, as will be hereinafter fully set forth.

The device is illustrated in the accompanying drawings as follows:

Figure 1 is a side elevation of the device in place on a shelf, table, or counter. Fig. 2 shows the device, partly in vertical section, with the lever C in an elevated position. Fig. 3 is a view from below, looking directly up into the mouth of the barrel A. Fig. 4 is a perspective view of the swivel B B′ detached from the device. Fig. 5 represents an alternative construction.

The construction is as follows: The body or fixed part of the device consists of an attaching-bracket, A^2, a barrel, A, and a neck, A′, extending up from and arranged concentric with the barrel. These parts are best made in one piece of cast metal; but of course they may be of separate pieces joined; but such a construction would be expensive. The barrel A has a flaring mouth, *a*, and V-shaped ribs *a′* on its inside. The neck A′ is made smooth both inside and out, either by finishing or by chilling, as desired, and serves as a journal for the swiveled part B B′ and the corkscrew-stem D, and also as a guide for the said stem D as it moves up and down.

The part B B′ is made of cast metal, and consists of a collar, B, and a horn or fulcrum-post, B′. It is finished or made smooth within and at the ends of the collar B, so it can be rotated freely on the neck A′. At the extremity of the fulcrum-post B′ there is a tenon, *b*, with a pivot-hole therein.

C is a lever, which is fulcrumed on the post B′ by a pivot-pin, *c*, which passes through the pivot-hole in the tenon *b* on the post. This lever is connected by a link, *d*, with the screw-stem D, which link is pivoted both in the lever C at *c′* and in the screw-stem D at *d′*. The lever C is also provided with a swiveled crank-handle, C′.

It will be seen by observing the drawings that by raising the lever, as in Fig. 2, the corkscrew will be drawn up, and that by revolving the lever C like a crank the screw-stem D will be the center of motion and will be revolved, the post B′ describing a circle around the neck. The swiveled collar B and post B′ are kept in place on the neck by a collar, E, which is secured by a set-screw, *e*.

The operation is as follows: The nose of the bottle from which the cork is to be pulled is put into the flaring mouth *a* of the barrel A. This will push up the corkscrew D′, the corkscrew-stem D, and the lever C until the lever will be in about the position shown by dotted lines in Fig. 2. The operator will then, while holding the bottle in place with one hand, revolve the lever C like a crank with the other hand. This will drive the corkscrew D′ into the cork. The operator will then raise the lever C into the position shown by full lines in Fig. 2. This will draw the cork from the bottle up into the barrel A. While the cork is in the barrel A it is prevented from revolving by the V-shaped ribs *a′*, and therefore by revolving the lever C in the proper direction the cork will be expelled from the barrel and the screw.

I am aware of the constructions of cork-pullers shown in the following patents, viz: Tucker, No. 207,631, dated September 3, 1878; White, No. 280,697, dated July 3, 1883, and Russell, No. 34,216, dated January 21, 1862, and what I claim hereinafter as my invention is not intended to include these devices.

What I claim as new is—

1. In a cork-pulling machine, the combination, substantially as shown, of the supporting-barrel A, to receive the nose of the bottle and concentric neck A′, the collar B, swiveled on said neck and having the fulcrum-post B′ extending therefrom, the fixed collar for holding the collar B in place, the corkscrew-stem D, journaled and sliding in said neck, and the lever C, fulcrumed on said post and connected with said corkscrew-stem by a link, *d*, substantially as set forth.

2. In a cork-pulling machine, the combina-

tion, substantially as shown, of the supported barrel A, having the flaring mouth *a*, internal ribs, *a'*, and concentric neck A', the collar B, swiveled on said neck and having the fulcrum-post B' extending therefrom, the fixed collar for holding the collar B in place, the corkscrew-stem D, journaled and sliding in said neck, and the lever C, fulcrumed on said post and connected with said corkscrew-stem by a link, *d*.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL J. HURLEY.

Witnesses:

JNO. K. HALLOCK,

C. SWALLEY.