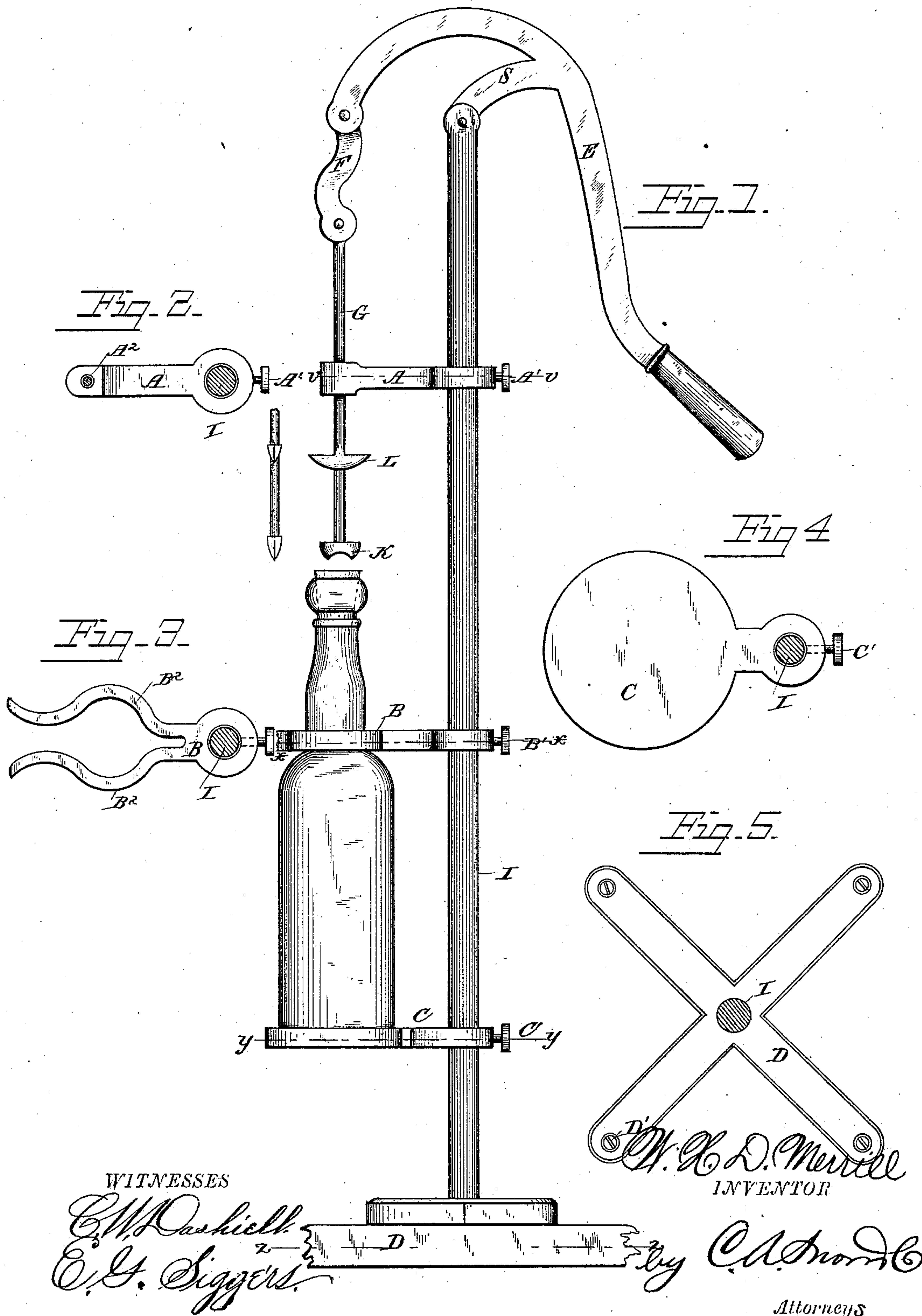


(No Model.)

W. H. D. MERRILL.
CORK PULLER.

No. 308,686.

Patented Dec. 2, 1884.



UNITED STATES PATENT OFFICE.

WILLIAM H. D. MERRILL, OF COLORADO SPRINGS, COLORADO.

CORK-PULLER.

SPECIFICATION forming part of Letters Patent No. 308,686, dated December 2, 1884.

Application filed May 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. D. MERRILL, a citizen of the United States, residing at Colorado Springs, in the county of El Paso and State of Colorado, have invented a new and useful Cork-Puller, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to cork-pullers for pulling corks from the necks of bottles, and is designed to cut the wire at the mouth of the bottle and split and pull the cork; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

Figure 1 is a side elevation of a cork-puller embodying my improvements. Fig. 2 is a sectional view on the line *v v*, Fig. 1, showing a plan of the stem-guide. Fig. 3 is a section on the line *x x*, Fig. 1, showing a plan of the neck-support for the bottle. Fig. 4 is a section on the line *y y*, Fig. 1, showing a plan of the base-support for the bottle; and Fig. 5 is a section on line *z z*, Fig. 1, showing a plan of the base of the cork-puller.

Referring by letter to the accompanying drawings, D designates the base of the stand, which is of X form, and has the ends of its arms provided with screw-holes D', through which the securing-screws are passed to fasten the cork-puller stand to the counter or platform on which it is to be worked.

From the base D a rod, I, rises, and to its upper end is pivoted the arm S of a lever, E, which is curved as shown, and provided with a suitable handle. The rod I is provided at any suitable distance above the base D with an adjustable bottle-support, C, having a hole in its arm, through which the rod I passes, and a set-screw, C', to be secured at any desired point on the rod.

Above the bottle-support C is a neck-support, B, through which the rod I passes, and a set-screw, B', is provided for this support to secure it adjustably upon the rod. The neck-support B is provided with two curved spring-arms, B² B², to receive and hold the neck of the bottle when the latter is in place upon the base-support C. These supports are made adjustable on the rod I, to accommodate bottles of different heights.

Above the neck-support B is a stem-guide, A, which is adjustably secured upon the rod I by a set-screw, A'. This stem-guide A is

provided near its outer end with a vertical perforation, A², through which the stem G of the cork-puller passes. The stem G is pivoted at its upper end to an S-shaped arm, F, which is pivoted at its upper end to the end of the curved lever E, in order to cause the stem G to work true in the stem-guide. The lower end of the stem G is provided with a knife, K, having a concave edge which is sharpened, and is intended to cut the wire that usually holds the cork in the bottle, and is one-eighth inch thick on its top edge. The knife L, above the knife K on the stem, is intended to split the pulled cork in two halves, when the knife K is passed down through a second cork, so that the first cork, which has remained on the stem, will fall off. When the lever is raised, the knife K will be pushed down through the cork in the neck of the bottle. The bottle should then be turned one-quarter way round on the base-support, either to the right or to the left, and the lever-handle depressed to pull the cork.

The cork-puller, except the stem and knives, which are of steel, is made of wrought-brass, so that it will not corrode by coming in contact with liquids.

The device is cheap, simple, and performs its work efficiently.

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

1. The combination, with the rod I and the base D, of the adjustable base-support C, the adjustable neck-support B, the adjustable stem-guide, the stem having the knife K, and an operating-lever fulcrumed to the rod I, substantially as specified.

2. The combination, with the rod I, having the base D, provided with screw-holes in the ends of its arms, of the base-support C, secured to the rod by set-screw C', the neck-support having curved spring-arms and set-screw B', the stem-guide A, and set-screw A', the stem G, having the knife K at its lower end and the knife L above it, the arm F, and the curved lever E, fulcrumed to the upper end of the rod I, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM H. D. MERRILL.

Witnesses:

EDWARD C. WESTON,
EDWIN C. BAKER.