(No Model.)

L. C. MUMFORD.

CORK EXTRACTOR.

No. 474,480. Patented May 10, 1892.

FIG. 1.

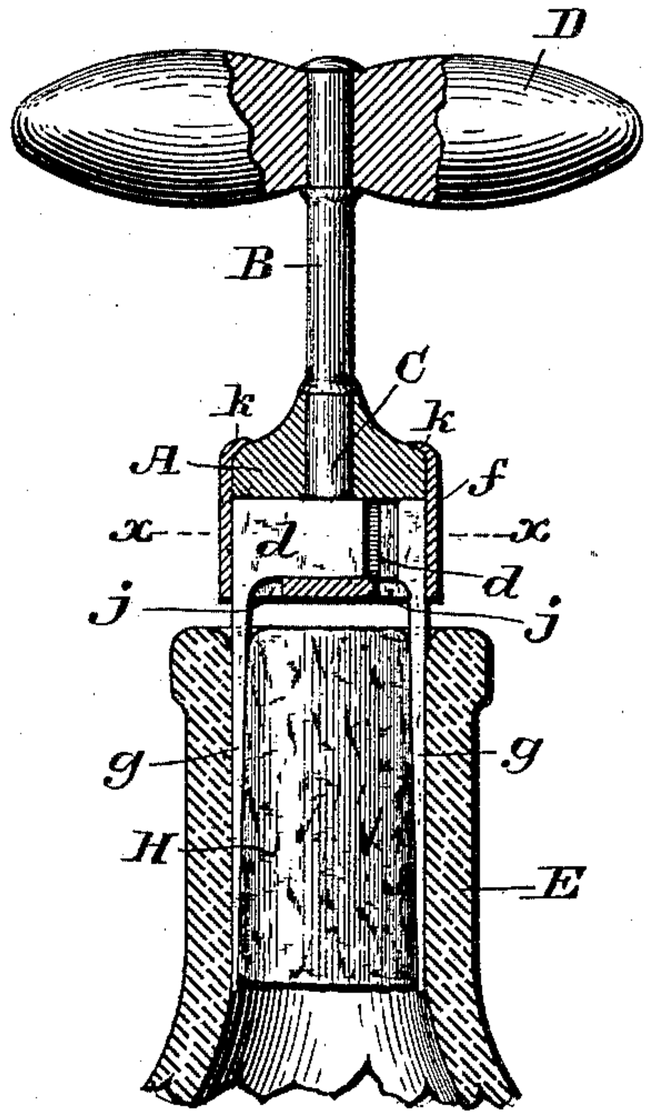

FIG. 2.

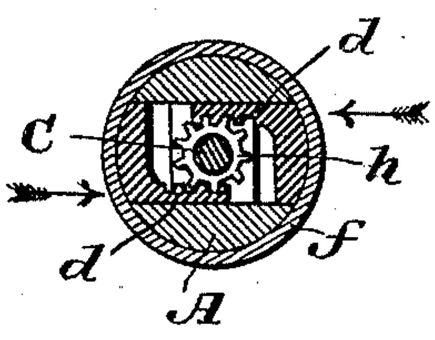

FIG. 3.

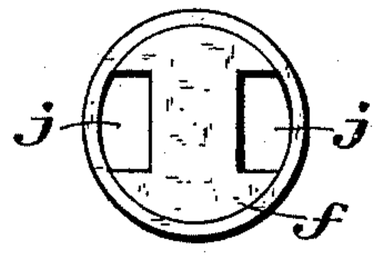

FIG. 4.

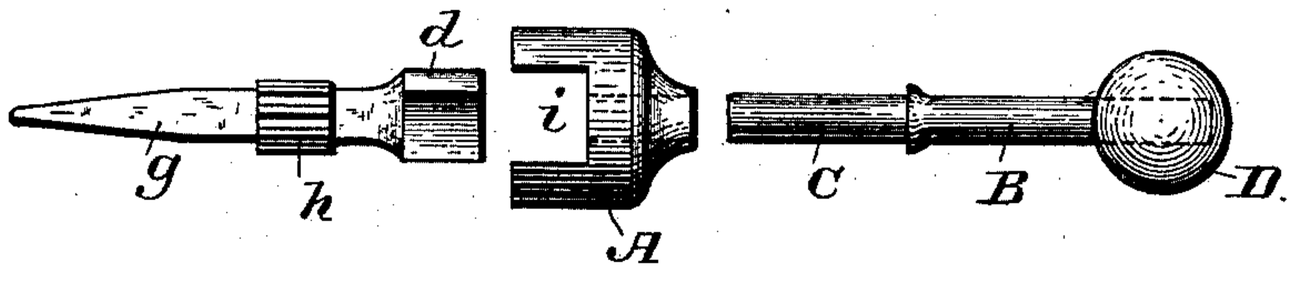

FIG. 5.

ATTEST.

J. Henry Kaiser.

Benj. Munroe

INVENTOR.

Lucian C. Mumford,

By M. D. Converse,

atty.

UNITED STATES PATENT OFFICE.

LUCIAN C. MUMFORD, OF NEW YORK, N. Y.

CORK-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 474,480, dated May 10, 1892.

Application filed January 14, 1891. Serial No. 377,737. (No model.)

To all whom it may concern:

Be it known that I, LUCIAN C. MUMFORD, a citizen of the United States, residing at the city of New York, in the county and State of New York, have invented new and useful Improvements in Cork-Extractors, of which the following is a specification.

My invention relates to that class of cork-extractors in which prongs or blades are inserted in a stock or connected to a suitable handle in such manner as to allow them to be introduced by pressure into the mouth of the bottle on opposite sides of the cork to be pressed together upon the cork to clamp it between them, of which class Letters Patent No. 212,863, dated March 4, 1879, is an example.

My present invention consists principally in an improved socket and stock for carrying the prongs or blades and improved means for compressing the latter together to grip the cork, as will more fully appear hereinafter.

Referring to the accompanying drawings, Figure 1 is a vertical sectional view of my invention assembled complete. Fig. 2 is a sectional plan view of same on dotted line *x x*, showing in part details of construction and mechanism employed. Figs. 3, 4, and 5 represent the parts in detail as they appear separated.

Like letters indicate corresponding parts in the several figures.

A is a thick disk or stock of metal having a slot or channel *i* of suitable depth and of rectangular form across its face from side to side and secured or journaled loosely to a stem B, and to the upper end the handle D is secured rigidly. To its lower end a pinion-gear C is attached.

g and *g* are prongs or blades, which are provided at their base with arms *d*, upon the inner vertical sides of which are gear-teeth, forming a rack in which the gear or spur pinion teeth C operate.

f is a thin cup-shaped ferrule having rectangular openings *j j* in its bottom, through which the prongs *g* project. The ferrule is secured to the disk A by being bent over at its upper edge all around at *k k* or in any other convenient way. E is the neck of the bottle, and H is a cork in the same.

The operation of my invention is as follows: The instrument is held by the handle D. The prongs *g g* are brought into position on opposite sides of the cork and forced down in between the latter and the sides of the neck of the bottle to a suitable distance, their adjustment to the thickness of the cork having been effected by turning the disk A, carrying the prongs *g*, to the left or right, as required, upon the stem B, just previous to entering their points. The operator now turns the handle to the left, causing the pinion-gear C, by its engagment with the racks on the insides of the arms *d*, to pull the prongs toward each other, inwardly compressing the cork and relieving the friction between it and the bottle, so that by a simultaneous upward pull the cork is easily withdrawn.

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

1. In a cork-extractor, the combination of a ferrule inclosing a slotted stock, two prongs adapted to embrace the cork and provided at their upper ends with racks, and a spindle having a spur-gear meshing with said racks, substantially as shown and described.

2. In combination with the ferrule *f*, the slotted stock A, fitted therein, the prongs provided at their upper ends with racks *d*, fitted in said slotted stock, and a spindle carrying a spur-gear interposed between and meshing with said racks, substantially as shown and described.

3. In combination with the slotted stock A, the ferrule *f*, overlapping at its top said stock, two oppositely-arranged racks *d d*, each having a downwardly-projecting prong, and a spindle loosely mounted in said stock and provided with a spur-gear adapted to mesh with said racks, substantially as shown and described.

LUCIAN C. MUMFORD.

Witnesses:
S. WADDELL,
E. C. TOWNSEND.