

Jean Victor Mathivet
 Injct in Machines for Bottling Liquids under Pressure

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PATENTED AUG 15 1871

Fig. 1

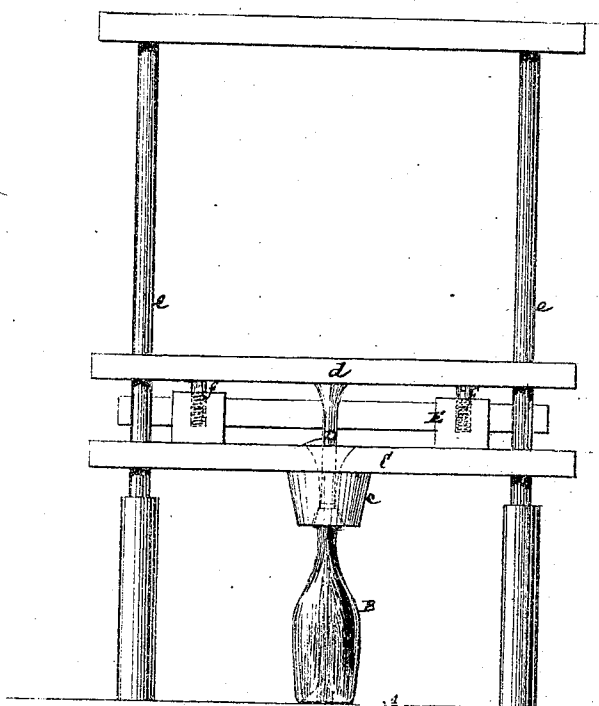


Fig. 2

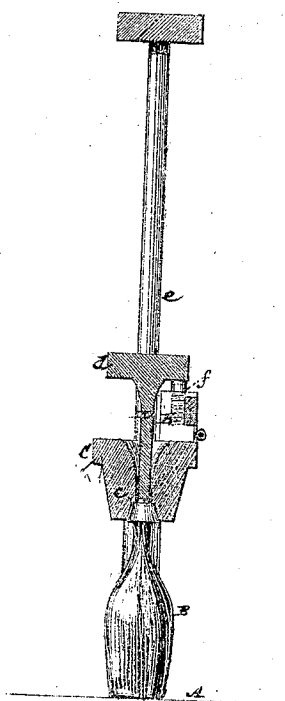
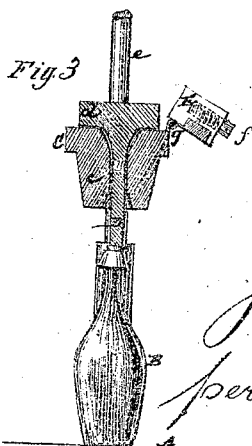


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

JEAN VICTOR MATHIVET, OF CLEVELAND, OHIO.

IMPROVEMENT IN MACHINES FOR BOTTLING LIQUIDS.

Specification forming part of Letters Patent No. 118,036, dated August 15, 1871.

To all whom it may concern:

Be it known that I, JEAN VICTOR MATHIVET, of Cleveland, in the county of Tioga and State of Ohio, have invented a new and useful Improvement in Machines for Bottling Liquids under Pressure, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a front elevation of a bottling-machine, in part, constructed according to my improvement; Fig. 2, a central transverse vertical section thereof; and Fig. 3, a similar view, in part, with the corking-plunger and filling-head in different relative positions.

Similar letters of reference indicate corresponding parts.

My invention has reference to machines for bottling gaseous or aerated liquids. In machines for this purpose the filling-head is first brought down on and over the mouth of the bottle, and, after the bottle has been charged with the liquid and the cork has been inserted therein, the corking-plunger next brought down to force the cork home to its place in the bottle, after which the filling-head is raised while the corking-plunger holds down on the cork to allow of the wiring or fastening of the latter by any suitable means. In all such bottling arrangements there has heretofore been no convenient provision for determining the depth of insertion of the cork, so that in using bottles of such varying heights as will be found among those which are nominally of the same size and pattern, the corking-plunger may leave an equal amount of cork projecting above the mouth of the bottle. Not only is this uniform projection desirable for the sake of appearance, but a certain and definite projection is desirable to provide for the hold of the fastening devices on the cork. This invention insures the uniform and definite projection of the cork by making the adjustment of the cork-plunger bear a fixed or given relation with the filling head or top of the bottle by means of a gauge interposed between the filling-head and corking-plunger, said gauge being preferably made adjustable to suit different required projections of the cork, also capable of movement out of the way to allow of the lift of the filling-head while

the corking-plunger continues depressed during the putting on of the fastening. By this adjustment of the corking-plunger's stroke relatively to the filling-head any variation in the height of the bottle is immaterial to insure an equal projection of the cork above the mouth of the bottle.

Referring to the accompanying drawing, A represents the base on which the bottle B stands. C is the filling-head, and *c* the filling-socket thereof, which should be provided with the usual attachments. D is the corking-plunger, and *d* its sliding cross-bar, working in common with the filling-head and in proper timely relation thereto, up and down the uprights *e e*. The usual or any suitable means may be employed for operating said filling-head and corking-plunger. Interposed between the filling-head C and corking-plunger D or its cross-bar is the gauge E that determines the down stroke of said plunger relatively to the filling-head, as and for the purpose hereinbefore described. This gauge may be made adjustable by means of screws *f* to suit different required projections of the cork above the mouth of the bottle, and it may be made capable of being moved out of the way when it is required to lift the filling-head, while the corking-plunger continues depressed to provide for the application of the fastening to the cork, by hinging said gauge, as at *g*, to the filling-head, and so that it may be removed or thrown back out of the way of the latter after it has performed its function as a stop to the corking-plunger, as shown in Fig. 3.

What is here claimed, and desired to be secured by Letters Patent, is—

The combination, with the filling-head and corking-plunger, of the interposed hinged gauge E, arranged to control the descent of said plunger relatively to the filling-head and to admit of its being turned aside to allow the latter to rise while the plunger remains down, substantially as and for the purpose or purposes herein set forth.

JEAN V. MATHIVET.

Witnesses:

GEO. A. KOLBE,
JOHN W. HEISLEY.