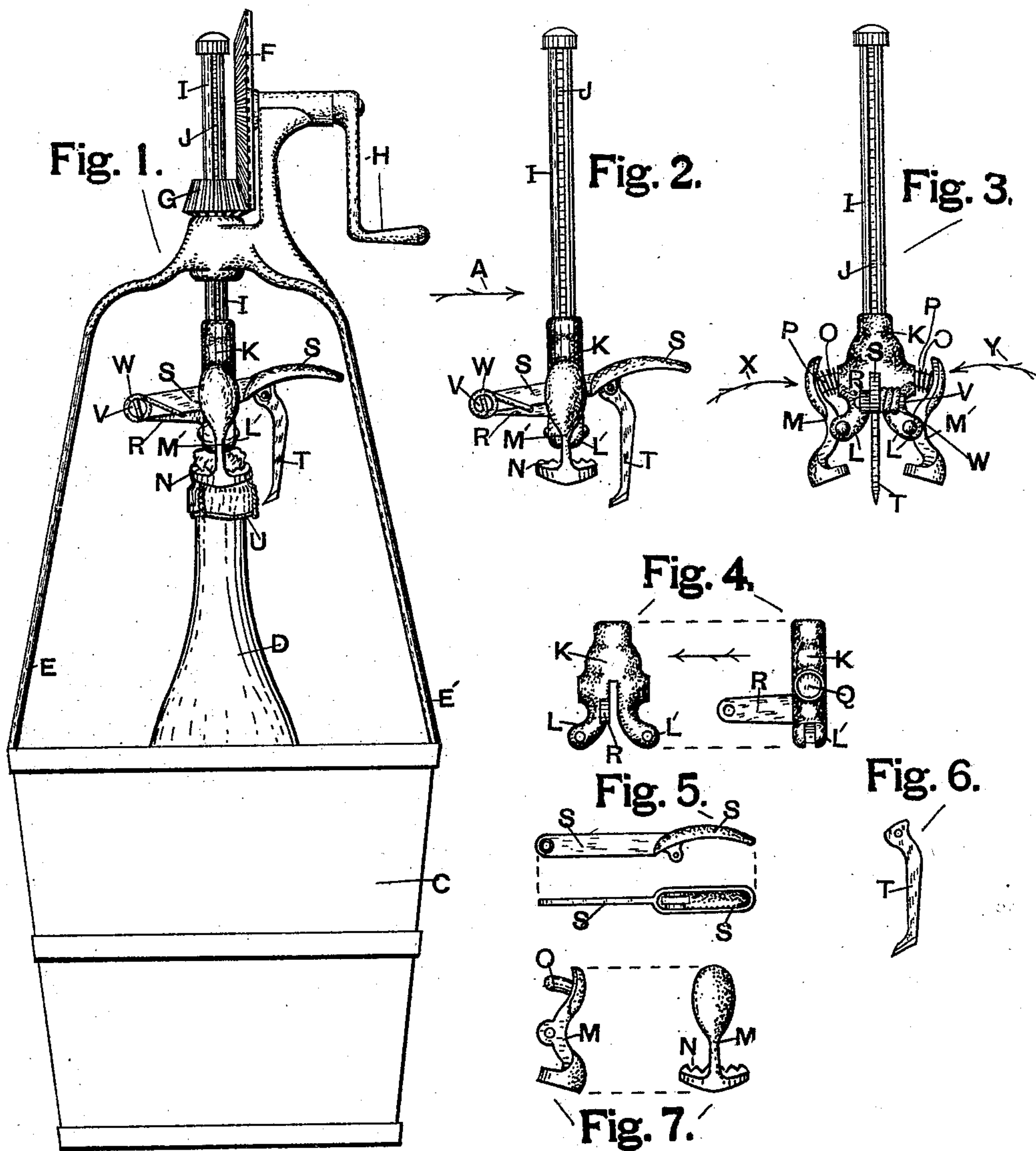


(No Model.)

T. R. WICKHAM.
WINE COOLER.

No. 517,507.

Patented Apr. 3, 1894.



WITNESSES:

James Milnes.
R. J. Dissell.

INVENTOR:

Thomas R. Wickham
By his atty.
Oscar Snell.

UNITED STATES PATENT OFFICE.

THOMAS R. WICKHAM, OF CHICAGO, ILLINOIS.

WINE-COOLER.

SPECIFICATION forming part of Letters Patent No. 517,507, dated April 3, 1894.

Application filed August 21, 1893. Serial No. 483,690. (No model.)

To all whom it may concern:

Be it known that I, THOMAS R. WICKHAM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Wine-Coolers, of which the following is a specification.

My invention relates to wine coolers, and my object is to provide an easily operated means for connecting the wine bottle to the shaft by which it is revolved, and to combine with this means a cutter by which the wire for holding the cork may be cut without removing the bottle from the cooler pail, the construction of the several parts being described hereinafter, and is illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of an apparatus for cooling wine in bottles, and shows the principal features of my invention. Fig. 2 is an elevation of the vertical shaft of an ordinary wine cooler with my improvements shown attached at the lower end thereof. Fig. 3 is an elevation of Fig. 2, looking in the direction indicated by arrow A. Fig. 4 shows, respectively, front and side elevations of a bifurcated head, as it appears when detached from the vertical shaft shown in Figs. 1, 2, and 3. Fig. 5 shows, respectively, a side elevation and a bottom view of a lever which is attached to the bifurcated head shown in Fig. 4; and Fig. 6 is a side elevation of the cutter blade which is hinged to the lever, Fig. 5. Fig. 7 shows, respectively, side and front elevations of one of the lever clamp arms which are hinged to the ends of the bifurcations of the head Fig. 4.

Similar letters indicate like parts throughout the several views.

In the drawings, C is the pail for containing the cooling medium, and D the bottle of wine to be cooled. At the bottom of the pail is a turn table upon which the lower end of the bottle rests, as is usual in coolers of this class. At the top of the pail are standards E and E' attached thereto, and which are joined together at the top end and form a support for the mounting of cog wheels F and G, which are operated by means of hand crank H. The vertical shaft I passes down through cog wheel G, and is capable of longitudinal motion, but is compelled to revolve with the cog wheel because of a key attached to the cog

wheel being fitted to the long groove J in the side of the shaft, as will be understood by those skilled in the art to which this invention pertains.

The head K is firmly secured to the lower end of shaft I, and to the lower end of the arms L and L', which form the bifurcation of the head, are pivotally attached the lever clamp arms M and M', which are provided with teeth N for engaging with the top of the bottle, or the cork thereof, and at O are projections which serve as guides to hold helical springs P, which have a bearing against the lever clamp arms at one end, and at the other bear against the bottom of holes Q which are made in the head K.

At R is a projection from head K at whose outer end is pivotally attached one end of cutter lever S, which lever has a position between the arms L and L' of head K, the free end of lever S being at the opposite side of head K from the pivotal end thereof.

At the underside of lever S are lugs to which is pivotally attached the upper end of the wire cutter blade T, which is capable of vibration at the lower end to and from the bottle with a limited movement, but of sufficient arc to permit the lower sharpened end thereof to engage with the binding wire U of a wine bottle. At V is the pivotal pin upon which swings lever S, and around and attached at one end to the head of this pin is a helical spring W, the other end of the spring at W' engaging with the lower edge of lever S, and serving to hold the lever in the position shown in Figs. 1 and 2 in contact with the crotch of the bifurcation of head K, when the lever is not being operated downward.

In operation, a bottle is placed in the pail, in the proper position on the turn table in the bottom thereof, when, by means of the fingers of one hand, the lever clamp arms M, M' are forced inward at the top in direction of arrows X and Y, Fig. 3, when the lower ends of the levers will be separated sufficiently to admit the top of the bottle which being inserted between the jaws, and the pressure of the fingers released, the helical springs P will close the jaws and clamp the bottle with sufficient force to couple it to the head K and shaft I, when the bottle is rotated by means of power applied at hand crank H, after which, when

the wine is sufficiently cooled and is ready to serve, the wire binder U may be cut by swinging the lower end of the cutter blade T inward until the point thereof is in contact
5 above the binder wire, when by pressure downward at the right hand end of lever S, as shown in Fig. 1, the cutter blade will be forced downward, and the binder wire easily and quickly cut without removing the bottle from the pail.
10 It is obvious that the bottle may be released by again forcing inward upon the clamp arms M and M', in the direction indicated by arrows X and Y.

I claim as my invention—

15 In a wine cooler, the combination of the revoluble vertical shaft I, which is mounted to slide vertically, a bifurcated head K at the

lower end of said shaft, spring actuated levers M and M' mounted at the ends of the arms of said bifurcation, and a lever S mounted to said head to vibrate vertically between the said arms, said lever having pivotally mounted thereto a cutter blade T which is of a length to contact the binding wire of a wine bottle, and is actuated by pressure upon said
25 lever S to cut the said binding wire in the manner substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand, this 13th day of July, 1893, in the presence of witnesses.

THOMAS R. WICKHAM.

Witnesses:

W. F. W. HALL,
JAMES J. NUGENT.