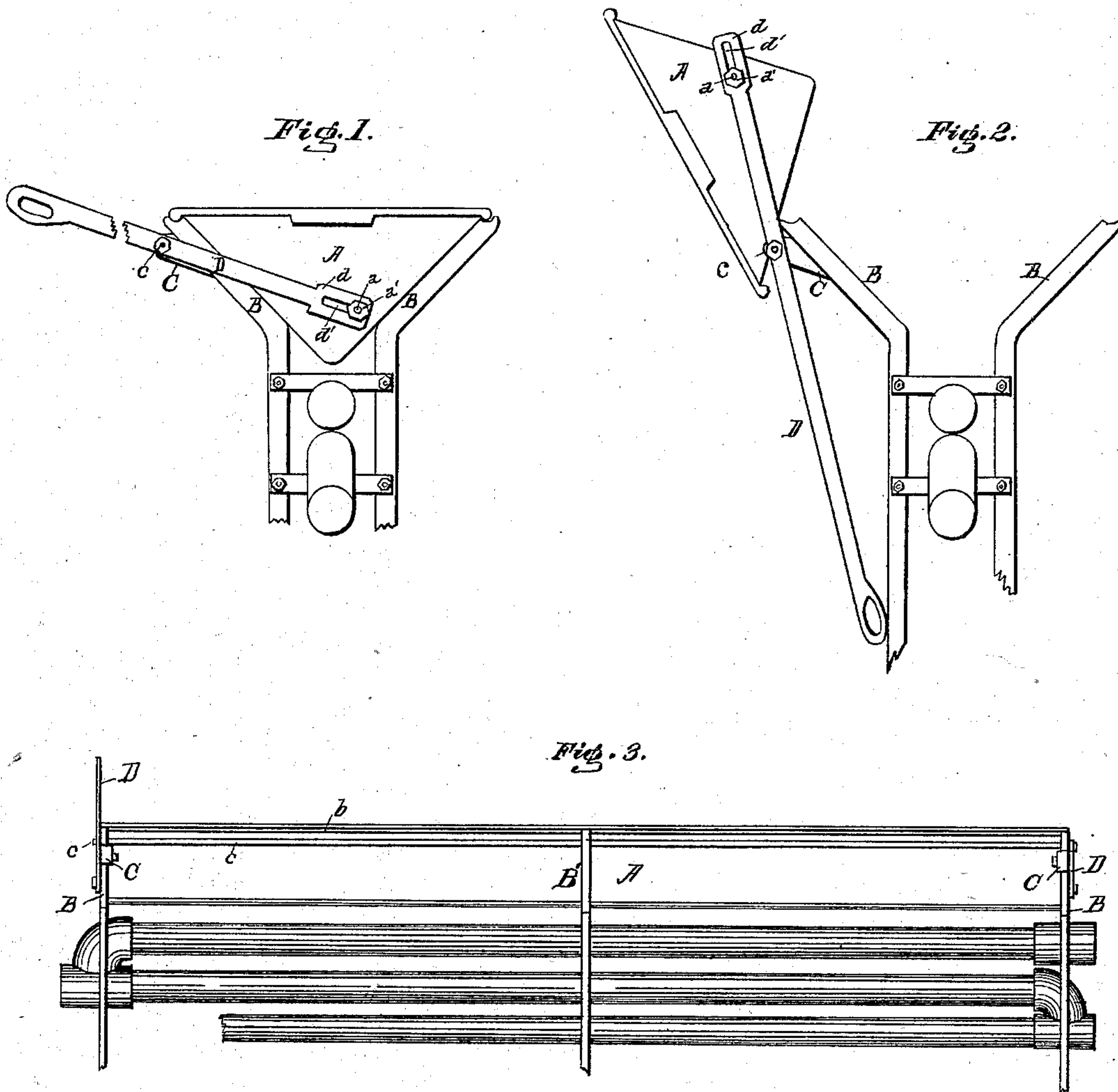


(No Model.)

L. J. BIRGLER.  
BEER COOLER.

No. 255,758.

Patented Apr. 4, 1882.



Attest:  
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# UNITED STATES PATENT OFFICE.

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## BEER-COOLER.

SPECIFICATION forming part of Letters Patent No. 255,758, dated April 4, 1882.

Application filed December 8, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, LEMEN J. BIRGLER, of the city of Cincinnati, Hamilton county, and State of Ohio, have invented certain new and  
5 useful Improvements in Beer-Coolers, of which the following is a specification.

My invention is especially applicable to those beer-coolers in which the beer is introduced into a trough and allowed to trickle over a coil  
10 of pipes kept cool by a continuous current of cold water passing through them; and it consists of an improved apparatus for lifting and tilting the beer-trough.

Heretofore ordinarily the trough had to be  
15 lifted out of its supports and taken down by hand and then washed, and then lifted up into its place again by hand. In this way many accidents happened to the trough, and also to the people handling it, especially in the winter-  
20 time, when the trough and its surroundings and the floor were coated with ice. To obviate these disadvantages the trough has been hung on trunnions over vertical flat coils, and when, on account of the sediment collected in the  
25 trough, filtered out from the beer, it became necessary to clean the trough, the latter was merely turned on its trunnions and the contents poured out over the cooling-pipes. It then became necessary to clean the whole coil  
30 of this slush—a tedious and unsatisfactory process. Furthermore, the trough was left in an unhandy, unsteady position for thorough cleaning—an operation usually performed by means of a hose.

35 The special object of my invention is to avoid these difficulties and provide an apparatus which shall lift the trough away from the beer-pipes, then reverse it, and also hold it in a convenient and steady position to be cleaned.

40 In the drawings accompanying and forming part of this specification, Figure 1 represents an end view of a trough provided with my improved lifting and tilting apparatus and in its usual position over the coil. Fig. 2 represents  
45 the same trough in the position it occupies after being lifted and tilted. Fig. 3 represents a front view of a trough provided with my improved lifting and tilting device.

A is the trough, which rests in Y's or arms

B. From one of the arms B of the Y a small  
50 lug, C, projects. A lever, D, is fulcrumed at c, and has in its end d a slot, d', which fits over a pin, a, projecting from the end of the trough A. The pin a projects from a point on the  
55 opposite side of the median line of the trough A from where the fulcrum c is located. A suitable fastening device—as the nut a', screwed to the pin a—holds the lever D in position on the pin a.

The apparatus just described may be put on  
60 one or both ends. If only applied to one end, a modification of the apparatus is used on the other end. This modification consists in dispensing with the handle-arm of the lever D. In either case the fulcrum-rod c connects the  
65 lever of both ends, so that moving one lever moves the other also. The tops of corresponding arms B of the Y's are connected by rods b, on which the edges of the trough rest. (See Fig. 3.) When the trough is long it is usually  
70 necessary to support it at a point or points between the ends. Such a support is shown in Fig. 3 of drawings, and is indicated by letter B'.

The method of operation is as follows: The  
75 handle of the lever D is depressed, lifting the trough A, and, because of the position of the pin a, tipping the trough, as shown in Fig. 2. When fully raised the trough A drops slightly, this motion being permitted by the slots d'. The lever D is limited in its motion by the  
80 frame of the coil, against which it rests when the trough is tilted. In reaching the position shown in Fig. 2 the contents of the trough are dumped clear of the coil. The trough is now  
85 thrown so far forward as to remain steady in position when water is thrown into it from a hose. It will also be observed that it is in a convenient position for washing—a great advantage over the position of the trough given  
90 to it by the devices heretofore in use.

Among other advantages of my invention are, first, the trough can be quickly lifted and tilted by one man; secondly, much wear and tear of the trough is avoided; thirdly, my invention enables me to use supports for the  
95 trough at any desired points between the ends of said trough, thereby preventing the trough from being bent or broken at the center.

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

5 1. A beer-cooler provided with means, substantially as described, for lifting and tilting the beer-trough in such a manner that the washings from the trough will not fall on the pipes below it, substantially as described.

10 2. A beer-cooler provided with apparatus for lifting the beer-trough to one side of the pipes and tilting and allowing it to fall back in position over the pipes, substantially as and for the purposes specified.

3. The combination of arms B, lever D, provided with slot *d*, and trough A, provided with pin *a*, substantially as and for the purposes specified. 15

4. The combination of connecting fulcrum-rod *c* and the apparatus at each end of the beer-trough, consisting of the arms B and lever D, provided with slot *d*, and pin *a*, substantially as and for the purposes specified. 20

LEMEN J. BIRGLER.

Witnesses:

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