

No. 724,499.

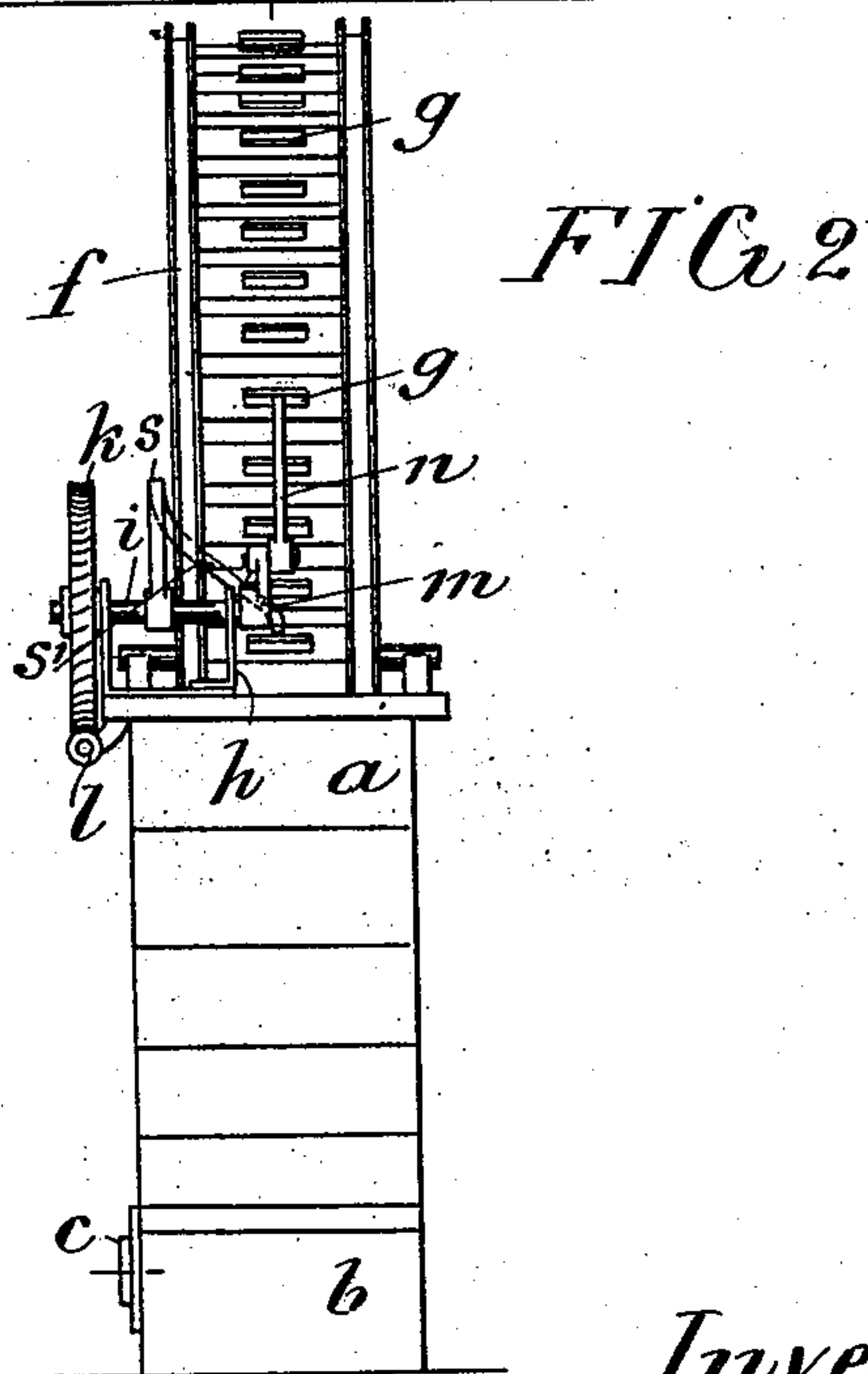
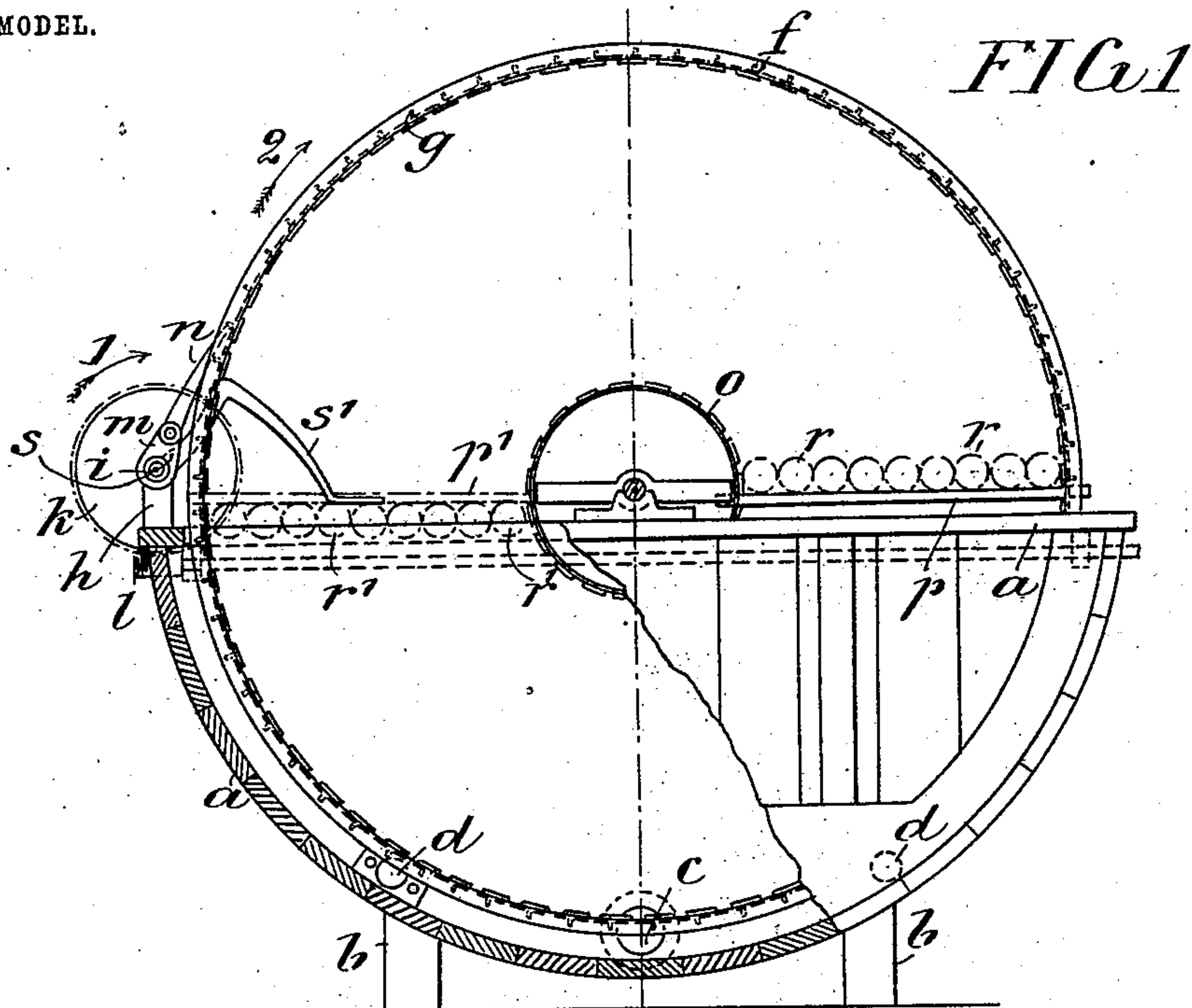
PATENTED APR. 7, 1903.

A. A. PINDSTOFTE.

MACHINE FOR SOAKING BOTTLES PREVIOUS TO CLEANING AND RINSING.

APPLICATION FILED APR. 17, 1902.

NO MODEL.



Witnesses;

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UNITED STATES PATENT OFFICE.

ANDERS ANDERSEN PINDSTOFTE, OF COPENHAGEN, DENMARK.

MACHINE FOR SOAKING BOTTLES PREVIOUS TO CLEANING AND RINSING.

SPECIFICATION forming part of Letters Patent No. 724,499, dated April 7, 1903.

Application filed April 17, 1902. Serial No. 103,401. (No model.)

To all whom it may concern:

Be it known that I, ANDERS ANDERSEN PINDSTOFTE, manufacturer, of Copenhagen, in the Kingdom of Denmark, have invented
5 certain new and useful Improvements in Machines for Soaking Bottles Previous to Cleaning and Rinsing, of which the following is a specification.

In the accompanying drawings, Figure 1 is
10 a side elevation, partly in section, of a machine embodying this invention; and Fig. 2 is a rear view of the same.

The machine consists of a semicircular receptacle or casing *a*, mounted on legs *b b* and
15 fitted with an outlet-pipe *c* for the water. Upon the semicircular bottom are provided rollers *d d*, which are mounted in the side walls thereof slightly above the bottom. Upon the said rollers rests a cylinder or drum
20 *f* with peripheral openings or perforations and provided with projecting pins or bars *g* or like, arranged at even distances, so as to form projecting teeth over the entire periphery of the drum or cylinder. At the rear of
25 the receptacle or casing is provided a bracket *h*, on which is mounted a shaft *i*, fitted with a worm-wheel *k*, adapted to gear with a worm *l*. When the machine is used for manual work, the worm is not required, and the rotary motion may be obtained by suitable lever mechanism. At the opposite end of the shaft is
30 fixed a crank-arm *m*, the free end of which carries a pawl *n*, adapted to engage under the teeth *g* of the cylinder or drum *f*, thereby imparting motion to the latter by the action of the crank-arm *m*. Upon the shaft *i* is further provided a hinged arm *s*, which, with its downwardly-bent portion *s'*, rests upon the
40 bottle placed in the drum *f*, so that when such bottles are not removed in due course they press against the part *s'* of the arm *s* and lift it, with the result that the pawl *n* is disengaged from the teeth *g* and the rotation of the drum is stopped until the necessary number of bottles have been removed, after which
45 the arm falls and reengages the pawl *n* in the teeth *g*, so as to continue the rotation of the drum. By this arrangement the cylinder or drum *f* is for each revolution of the shaft *i*
50 moved for the distance between two teeth in the direction indicated by the arrow 2, Fig. 1, the shaft *i* receiving continuous motion, as

shown by arrow 1, from the worm *l*. The cylinder or drum *f* is open at both sides. In the middle of the receptacle or casing is provided
55 another smaller drum *o*, which is independent of the large drum and is for the purpose of preventing the bottles in the large drum taking their place at the center of the drum.

The operation is as follows: The receptacle
60 or casing *a* is filled with water. A plank *p* or the like is introduced through the right side into the drum *f*, Fig. 1, and the first bottles *r* are placed thereupon. The worm
65 *l* is rotated at such a speed that the drum *f* advances for one tooth in the same time as that required to provide a fresh number of bottles for the drum. The bottles are introduced during the intermittent rotation of the drum. When the first batch of bottles have
70 passed through the casing and have got into the position *r' r'*, Fig. 1, at the left, the plank *p'*, with such first batch of bottles, is removed from this side of the casing and the machine operates in a continuous manner by deliver-
75 ing at each forward motion of the drum dirty bottles through one side of the drum and removing the soaked bottles at the other side. In the case that the drum is constructed for
80 soaking bigger bottles a loose bottom or partition is inserted in the drum. When the machine is to be used for soaking smaller bottles, this bottom or partition divides the drum in such a manner that the smaller bottles are properly supported and cannot be
85 brought in disorder.

Having now particularly described and ascertained the nature of my said invention, I declare that what I claim is—

1. Bottle-soaking machine, embracing a
90 water-receptacle, a revoluble containing-drum, adapted to rest in said receptacle and means arranged independently and centrally of said drum to separate the initially loosely introduced bottles or articles to be cleansed
95 or soaked and previously-inserted bottles at the opposite side of said central means, substantially as set forth.

2. Bottle-soaking or washing machine, comprising a water-receptacle, a revoluble containing-drum adapted to rest in said receptacle, an independent concentrically-arranged
100 smaller drum, adapted to separate the initially-introduced articles to be washed and

the previously-introduced bottles, at the opposite side of said latter drum, substantially as set forth.

3. Bottle-washing machine comprising a
5 water-receptacle, a revolvable containing-drum resting in said receptacle, an independent concentrically-arranged smaller drum adapted to prevent the bottles from settling at the middle of said containing-drum, and means
10 for intermittently actuating said containing-drum, substantially as set forth.

4. Bottle-washing machine, comprising a peripherally-toothed drum, a stop-motion

arm adapted to engage the bottles at the discharge end or side of said drum, and, itself, 15 to be lifted by said bottles, and means adapted to engage the peripheral teeth of said drum, and to be thrown out of action, substantially as set forth.

In witness whereof I have hereunto set my 20 hand in presence of two witnesses.

ANDERS ANDERSEN PINDSTOFTE.

Witnesses:

MAGNUS JENSEN,
V. O. FESSEN.