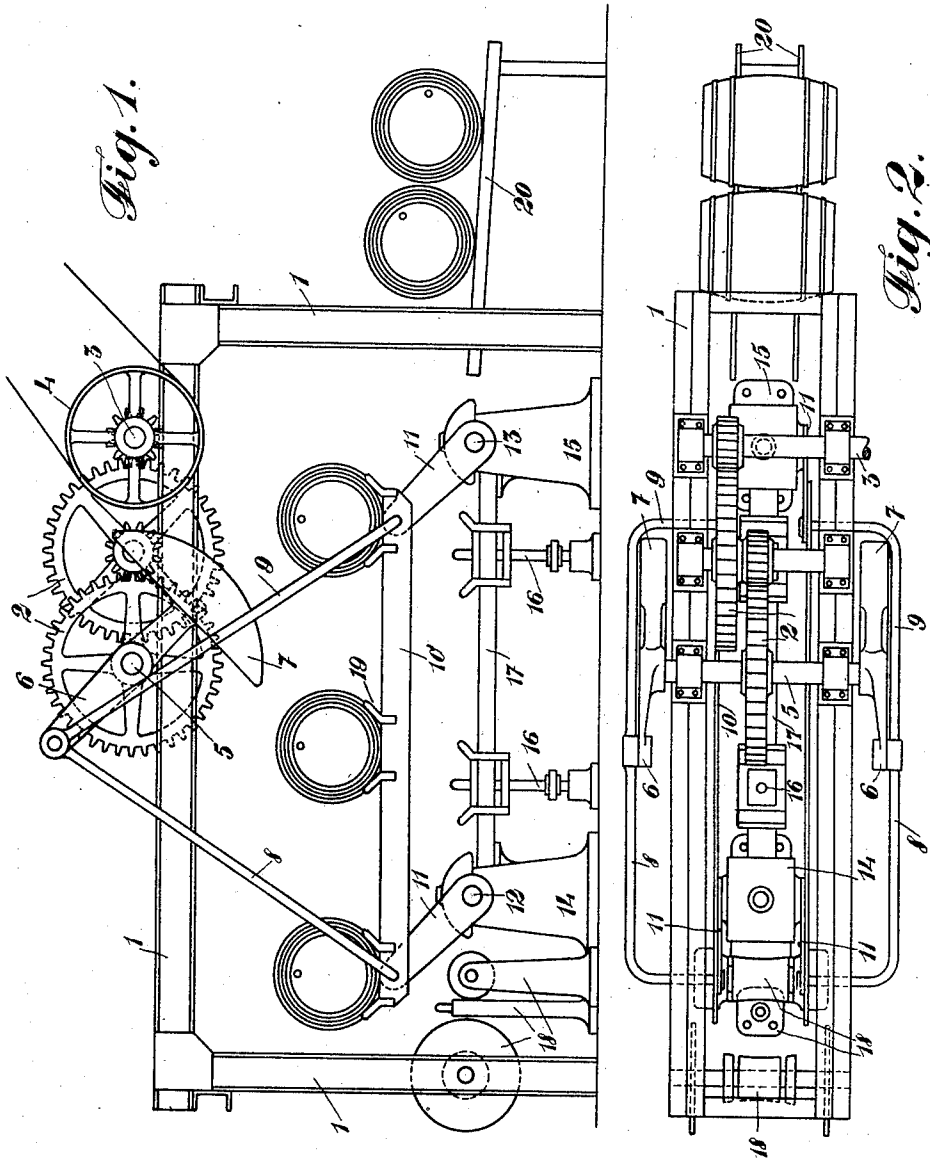


F. STROHL.
 AUTOMATIC KEG WASHING AND SPRINKLING MACHINE.
 APPLICATION FILED FEB. 18, 1911.

1,003,014.

Patented Sept. 12, 1911.
 2 SHEETS—SHEET 1.



Witnesses

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Fig. 5.

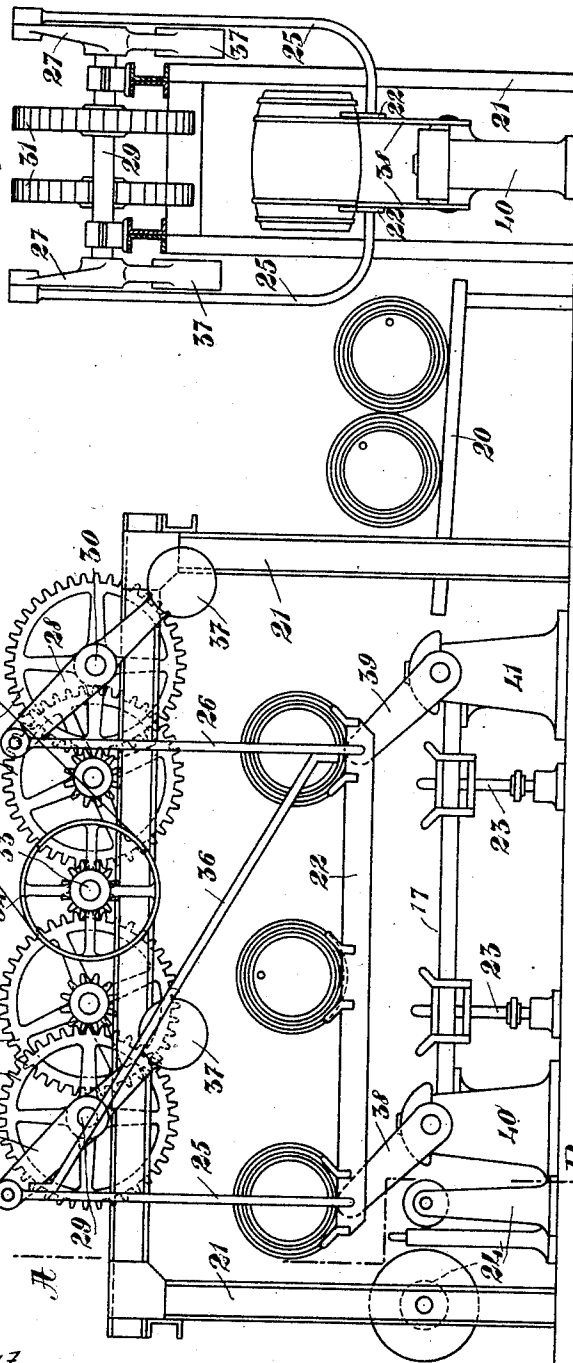


Fig. 3.

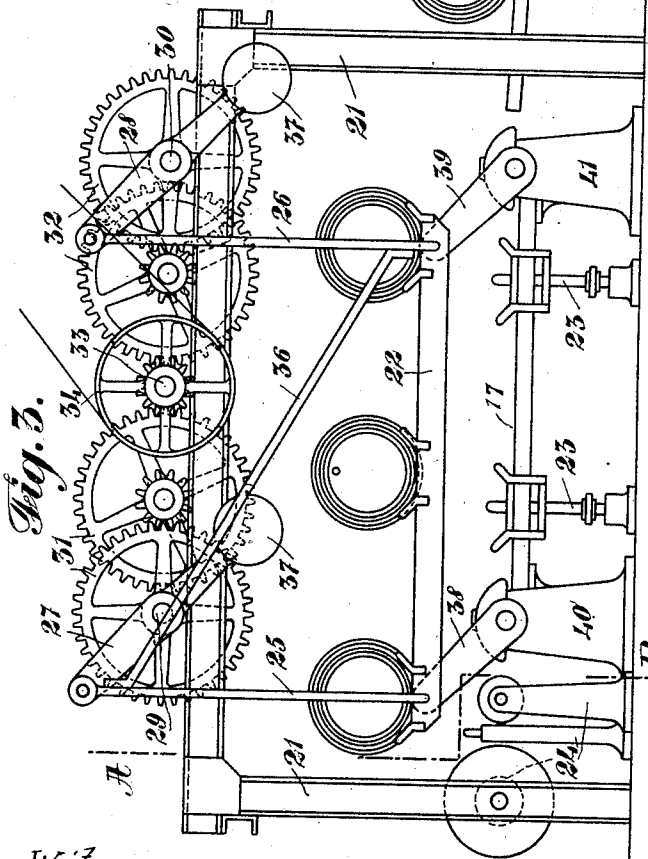
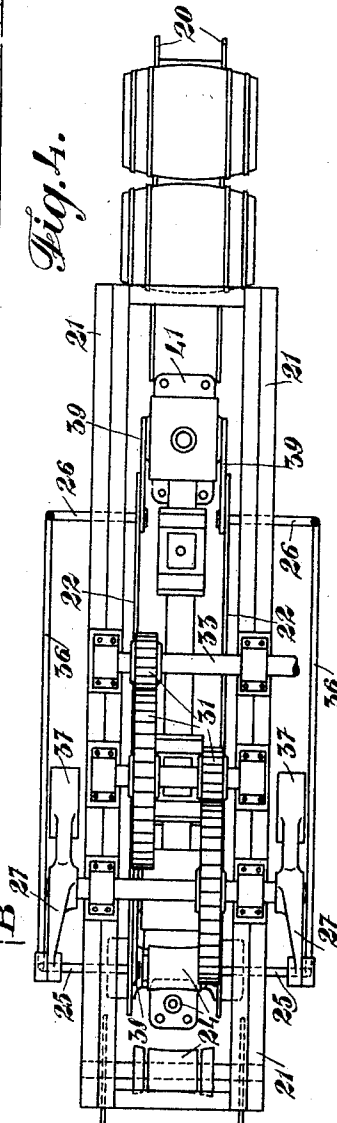


Fig. 4.



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AUTOMATIC KEG WASHING AND SPRINKLING MACHINE.

1,003,014.

Specification of Letters Patent. Patented Sept. 12, 1911.

Application filed February 18, 1911. Serial No. 609,315.

To all whom it may concern:

Be it known that I, FRIEDRICH STROHL, a subject of the German Emperor, residing at Rumpenheim-on-the-Main, Germany, have invented certain new and useful Improvements in Automatic Keg Washing and Sprinkling Machines, of which the following is a specification.

My invention relates to automatic keg washing and sprinkling machines and more particularly to the supporting and driving mechanism of the swinging keg feeding carrier and has for its object to avoid any side-wise oscillation of said carrier during its movement. With said object in view the carrier is linked to upper and lower levers, the first being adapted to support the carrier and the latter to guide same.

In the drawings hereto annexed Figure 1 is a side view and Fig. 2 is a top view of the machine. Figs. 3, 4 and 5 show a modified form of execution of the machine in a side view, top view with some parts removed, and section according to the broken line A—B of Fig. 3, respectively.

On the top of an open frame 1 there is mounted a spur gearing 2 driven by a shaft 3, the latter being rotated by a belt pulley 4 secured to the same. The shaft 5 of the spur gear of the lowest speed carries on both ends a crank 6 which is provided with a balance weight 7. To the free end of each crank there are secured two braces 8 and 9 the other ends of which are linked to the opposite ends of the keg carrier 10, together with which they represent a triangle, as seen in the drawing. In order to guide the keg feeding carrier in its swinging motion and to avoid sidewise oscillation of the same it, furthermore, is connected to links 11 secured to both ends of shafts 12 and 13 mounted in bearings 14 and 15, respectively. The links 11 correspond in length to the cranks 6 so that the cranks and links describe the same circle. Said bearings are mounted on the bottom of the machine and are adapted to carry the well known sprayer heads 16 by means of a rod 17.

At the entrance end of the frame 1 there is mounted a bung hole finder 18 of known construction to which the keg is fed in any known way. Then by the rotation of the gearing 2 the carrier 10 which is assumed

to stand in its lowest position, is lifted and grips the keg with its longitudinal bars that for this purpose are provided with projections 19 between which the keg is picked up from the bung hole finder 18 in the proper position to be set onto the first sprayer head on the further motion of the carrier which is first swung to the right (Fig. 1) and then lowered whereby the keg is set on the first sprinkling device. After the carrier has completed its downward and rearward strokes (to the left in Fig. 1) it will, in ascending pick up a second keg, that has been brought in the proper position by the bung hole finder, to put it on the first sprinkling device from which the first mentioned keg has just been lifted off and has been set by the same movement of the carrier on the second sprinkling device. With the next upward stroke of the carrier both kegs and a third one from the bung hole finder are lifted and brought to the next stage of the sprinkling process until the clear keg is fed to the discharge end of the frame 1 and is put onto an inclined table 20, feeding device or the like.

In the modification shown in Figs. 3 to 5, 21 is the frame and 22 is the keg carrier, while the sprinkling devices are shown at 23 and the bung hole finder at 24. The keg feeding carrier 22 is supported by pairs of braces 25 and 26 arranged parallel to each other and linked to cranks 27 and 28, respectively, of shafts 29 and 30 carried by the frame 21 on each end of same. Said shafts are rotated by the intermediary spur gearings 31 and 32, respectively, which are in turn rotated by the drive shaft 33 to which a belt pulley 34 is secured. Between the braces 25 and 26 on each side of the machine a distance brace 36 is stretched out for stiffening the carrier supporting levers. Weights 37 are arranged on the cranks 27 and 28 to balance the stress and load of the keg carrier. The latter is guided in its revolving movement by links 38 and 39 mounted in bearings 40 and 41, respectively, and linked to the outer ends of the carrier 22 together with the supporting levers 25 and 26. The length of the links 38 and 39, of course, corresponds to the length of the cranks 27 and 28. The bearings 40 and 41 are mounted upon the bottom of the machine in a vertical plane with the shafts

29 and 30, respectively. The supporting levers adapted to carry the keg feeding carrier are bent inwardly at their lower ends as the carrier is smaller than the distance
5 between the cranks to which the upper ends of the levers are secured. The bent shape of the levers is clearly shown in Fig. 5. The operation of this modified form of the washing and sprinkling machine is the same
10 as that described above in Figs. 1 and 2.

What I claim is—

1. A barrel washing machine including bearings, links pivoted on the bearings, a barrel support loosely hung on said links
15 and means operatively connected to the bar-

rel support to rotate the same about the link pivots.

2. A barrel washing machine including bearings, links pivoted on the bearings, a barrel support loosely hung on the links, a
20 crank shaft, and braces loosely connected to the crank shaft and fastened to the barrel support at spaced points.

In testimony whereof I affix my signature in presence of two witnesses.

FRIEDRICH STROHL.

Witnesses:

BERNHARD KLEISER,
JEAN GRUND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."