E. N. PARIS.

DISH WASHER.

APPLICATION FILED AUG. 20, 1919.

1,345,226. **Patented June 29, 1920.**

Fig. 2.

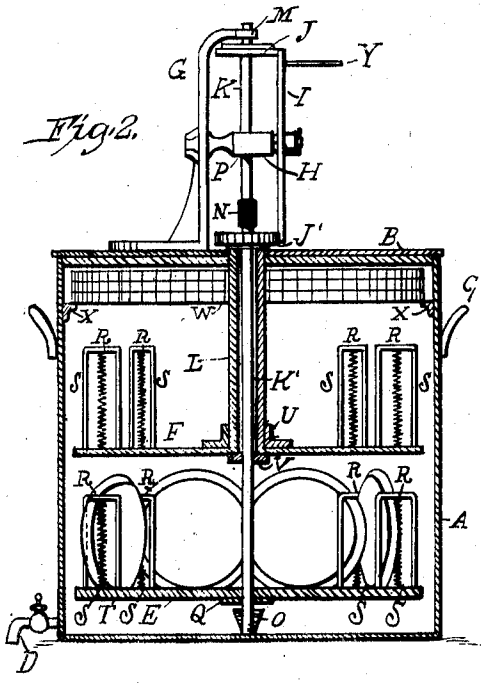
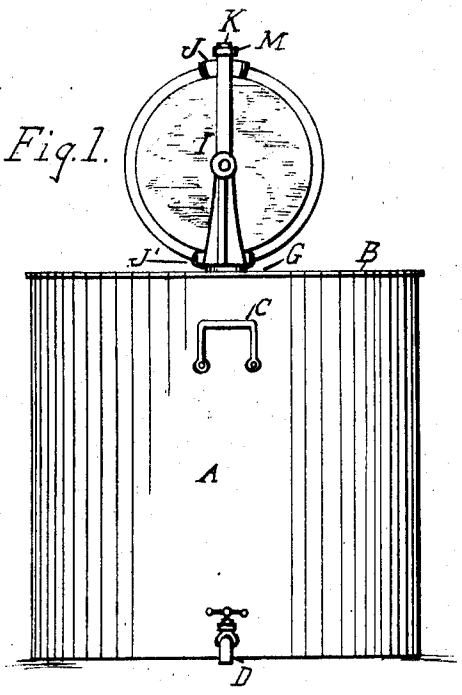


Fig. 1.



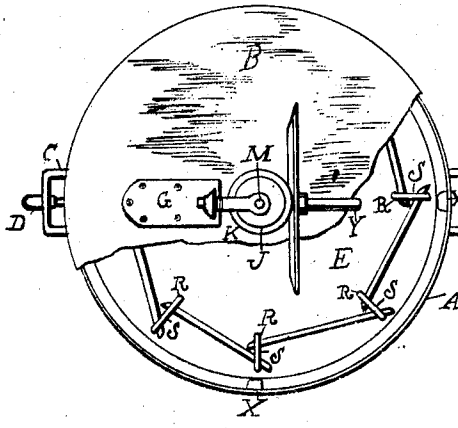


Fig. 3

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DISH-WASHER.

1,345,226. Specification of Letters Patent. Patented June 29, 1920.

Application filed August 20, 1919. Serial No. 318,794.

To all whom it may concern:

Be it known that I, EZEKIEL N. PARIS, a citizen of the United States, residing at Shawnee, in the county of Pottawatomie and State of Oklahoma, have invented certain new and useful Improvements in Dish-Washers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in dish washing machines, the object in view being to afford means to speedily and perfectly cleanse dishes or other soiled tableware with safety and in a convenient manner.

The invention comprises a simple and efficient device of this character having various details of construction, combination and arrangement of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

The invention is illustrated in the accompanying drawings which, with the letters of reference marked thereon, form a part of this application, and in which:

Figure 1 is a front elevation of a dish washing machine constructed in accordance with my invention.

Fig. 2 is a side elevation of the same, showing the body in section, and

Fig. 3 is a top view with the cover partly broken away to better show the construction and arrangement of parts.

Reference now being had to the details of the drawings by letter:

A designates the dish holder, which is a cylindrical vessel, preferably made of sheet metal, which may be coated with a non-oxidizing material, there being a removable cover B provided which fits closely, and handles C at the sides afford means for conveniently handling.

A faucet D is secured near the bottom of the dish holder A to enable the free drainage of water from the receptacle named, and within the vessel are two horizontal dish supporting circular disks E and F arranged to revolve in opposite directions.

To the removable cover B is attached a bracket G to which is secured a horizontal arm H, its outer end forming a bearing for the main bevel gear wheel I. Engaging with said wheel I are bevel gears J J′, J being secured near the upper end of vertical shaft K, and J′ secured to vertical sleeve L. The upper bearing for vertical shaft K is at M, in bracket G, whence said shaft extends downward, journaled through the arm H and terminating in a collar N at the lower end, in which is formed a square tapering socket into which fits a corresponding square tapering pin formed upon the upper end of another section K′ of a similar shaft, which extends downward through sleeve L to the bottom of dish-holder A, where it is provided with a cup-shaped bearing O.

The horizontal arm H is perforated at P, allowing the free passage of vertical shaft K. A horizontal circular disk E is secured to vertical shaft K′ near the lower end by flange Q. This disk is provided with a series of upright loops or brackets R, made preferably of spring wire; and centrally between the vertical sides of these loops is a coiled spring S, one end of each spring being fastened centrally to the upper cross bar R′ of the loops and the lower end to the disk E. The plates to be washed are placed vertically between the sides of these series of looped wires, as shown; one side of the dish resting against the inner side of the same, and the other side against the vertical coiled spring, thus being securely retained in position.

The upper horizontal disk F is arranged similarly to the disk E and secured to the lower end of vertical sleeve L by flanged collar U, the disk and sleeve being retained at the proper height in dish-holder A, by collar V attached to shaft K′.

A wire basket W is removably secured within the dish-holder near the top by lugs X and in this basket knives, forks, spoons and small articles may be placed and thoroughly washed by the splashing of water caused by the rapid revolving of the disks carrying the larger ware.

In use, the disks E and F also basket W are properly packed with dishes that require cleansing, as indicated in Fig. 2. This should be so executed as to render the mass measurably firm, so that improper rattling of the ware will be prevented. When the unwashed dishes have been introduced as stated, hot water, with soap or other deter-

gent material in proper quantity, is poured over them and the cover B is placed upon the dish-washer A; when by turning the crank Y the disks carrying the dishes are caused to revolve rapidly in opposite directions thus causing a thorough and rapid circulation of the soapy water through the dishes and other ware, removing the grease and other coating from the table-ware in an expeditions and perfect manner.

The soapsuds are now drawn off from the dish-holder A, and the cover B removed to replenish the supply of washing liquid with warm water as a rinsing douche that is thrown upon and through the mass of dishes by again turning the crank Y for a few moments, when the faucet D is again opened and the water removed from the dish-holder, the contents being left to drain a few moments, when they may be removed and dried with a napkin or towel in the usual manner.

The simplicity, ease of operation, and avoidance of numerous parts, as well as perfection and rapidity of execution of the work, are points of manifest excellence pertaining to the device.

What I claim to be new is:

1. The combination with a cylindrical dish-holding vessel, of a plurality of horizontal circular disks mounted within said vessel, a series of vertical loops secured to said disks each provided with a vertically disposed coiled spring, and mechanism to rotate said disks.

2. The combination with a cylindrical dish-holding vessel, a vertical rotatable shaft, a dish-supporting disk thereupon, of a rotatable vertical sleeve thereabove also carrying a dish-supporting disk, and mechanism arranged to rotate it in an opposite direction to the shaft.

In testimony whereof I hereunto affix my signature.

EZEKIEL N. PARIS.