

G. JAEKLE.
DISH CLEANER.

APPLICATION FILED FEB. 24, 1910.

962,763.

Patented June 28, 1910.

2 SHEETS—SHEET 1.

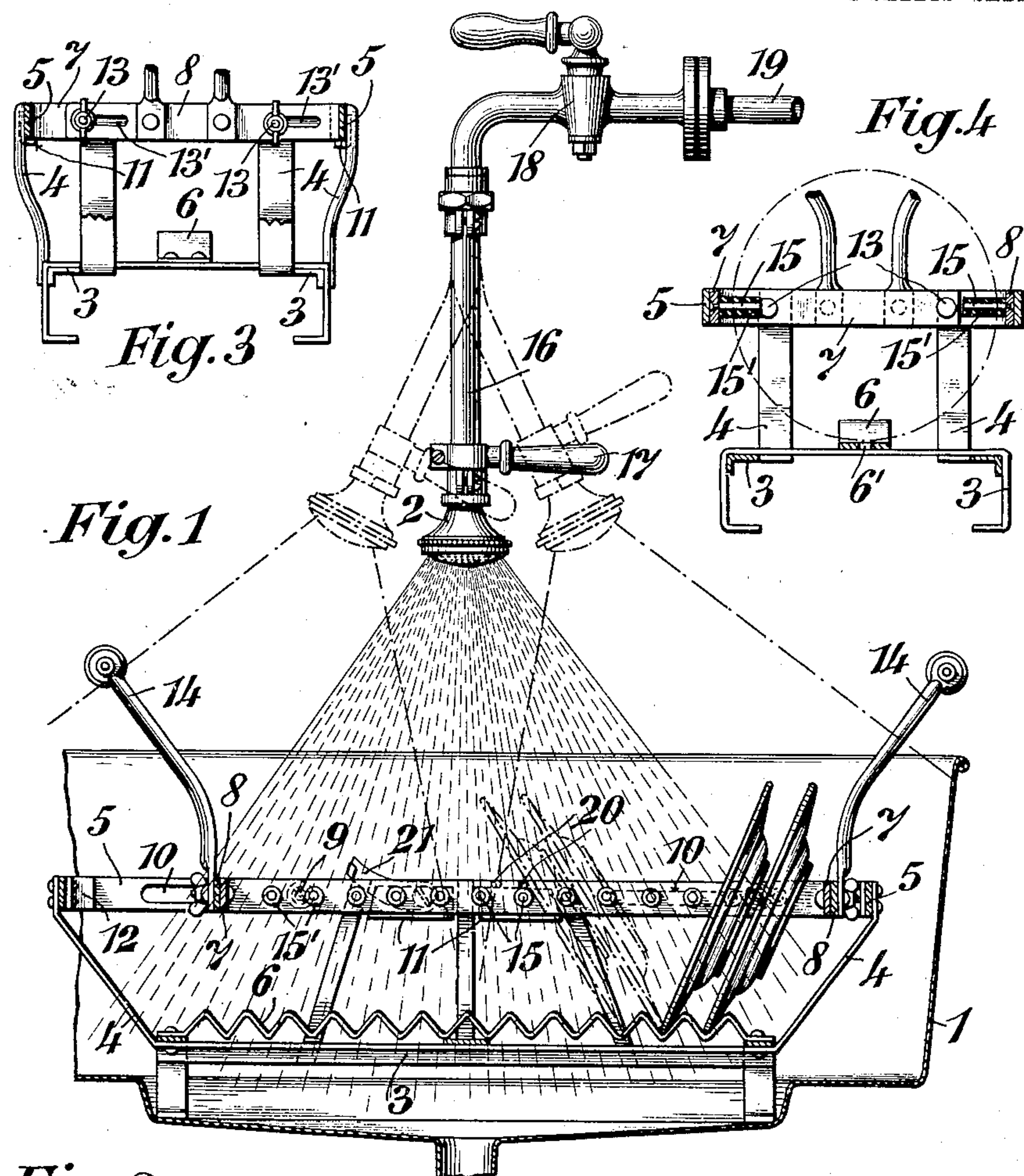
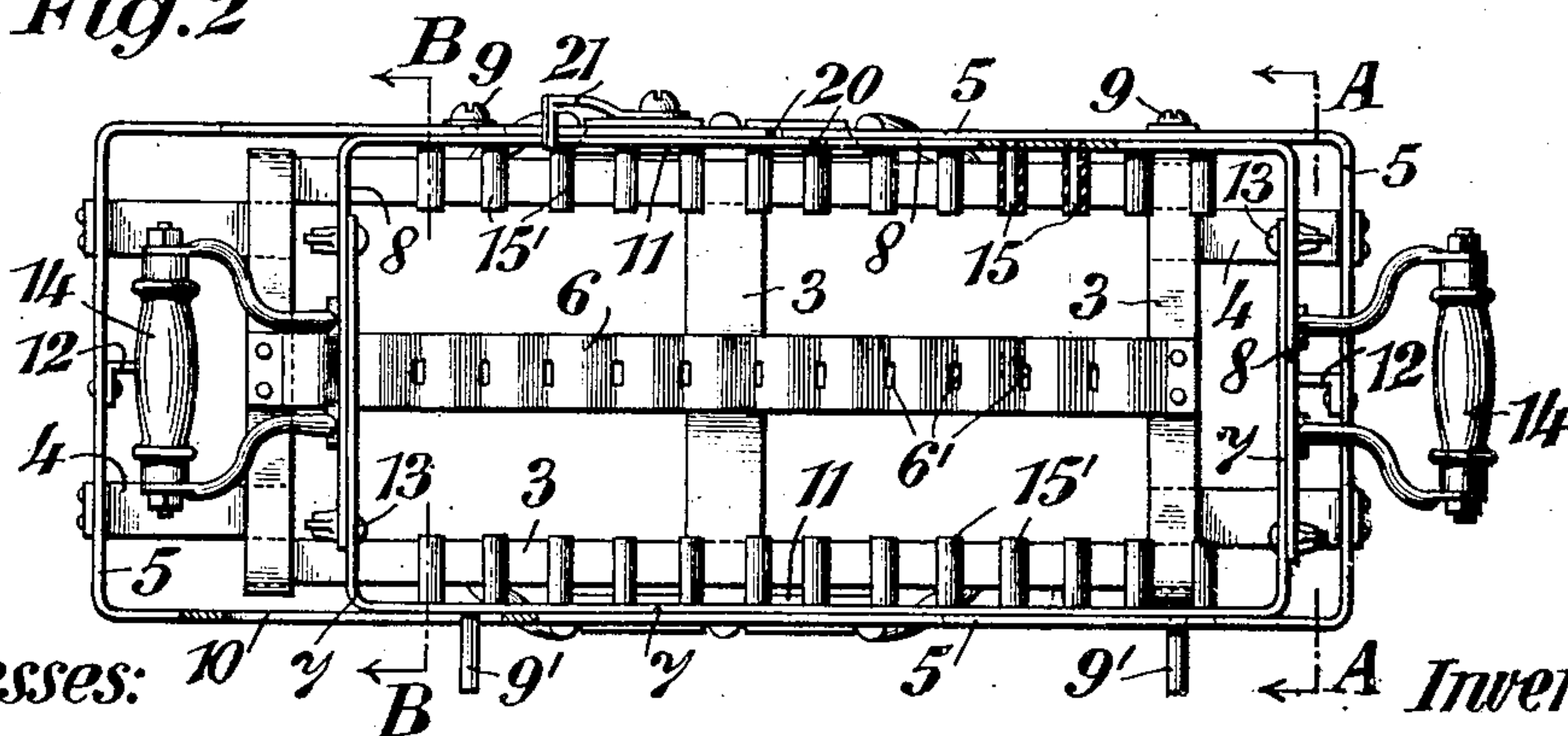


Fig. 2



Witnesses:

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Inventor:

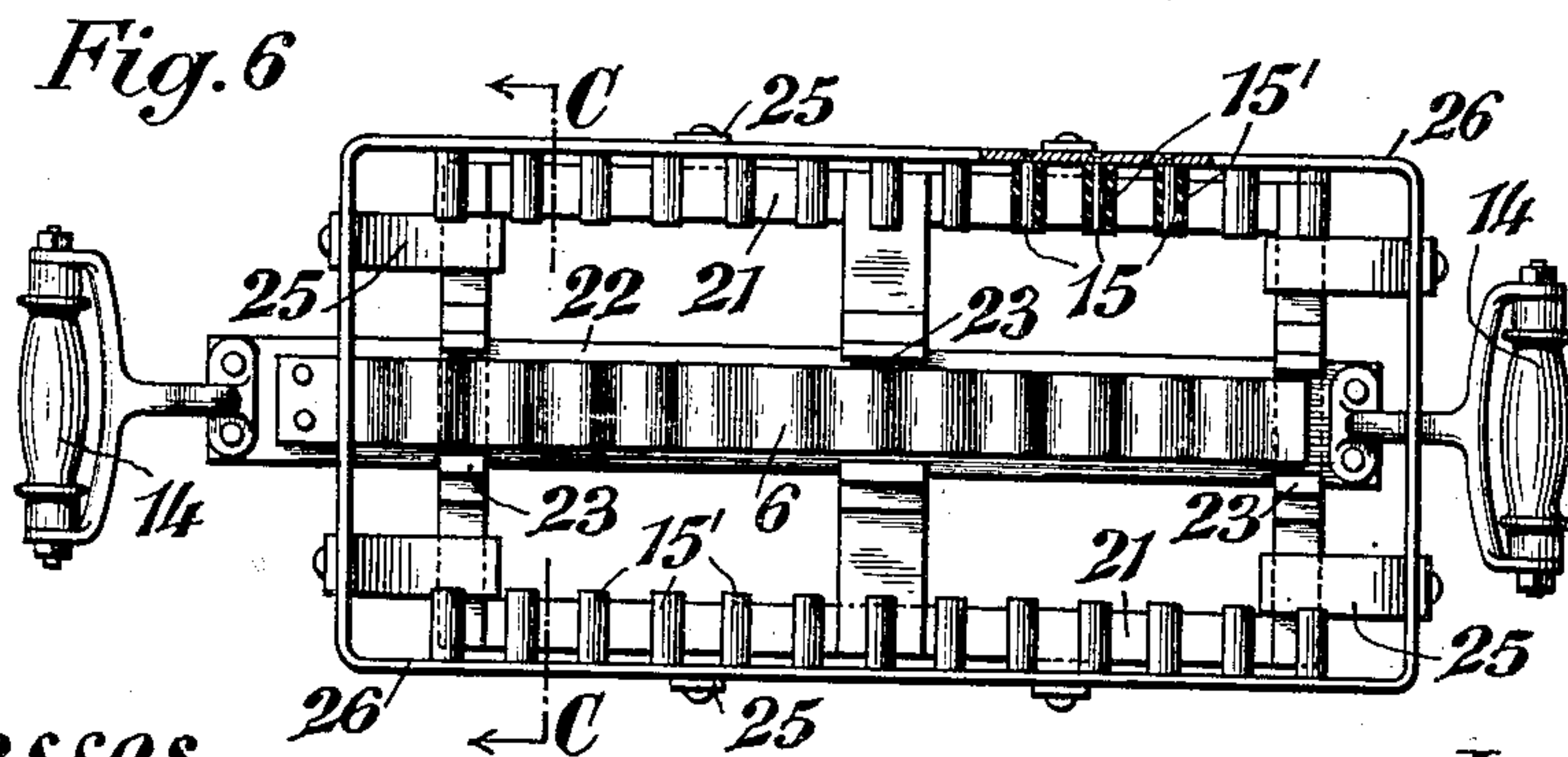
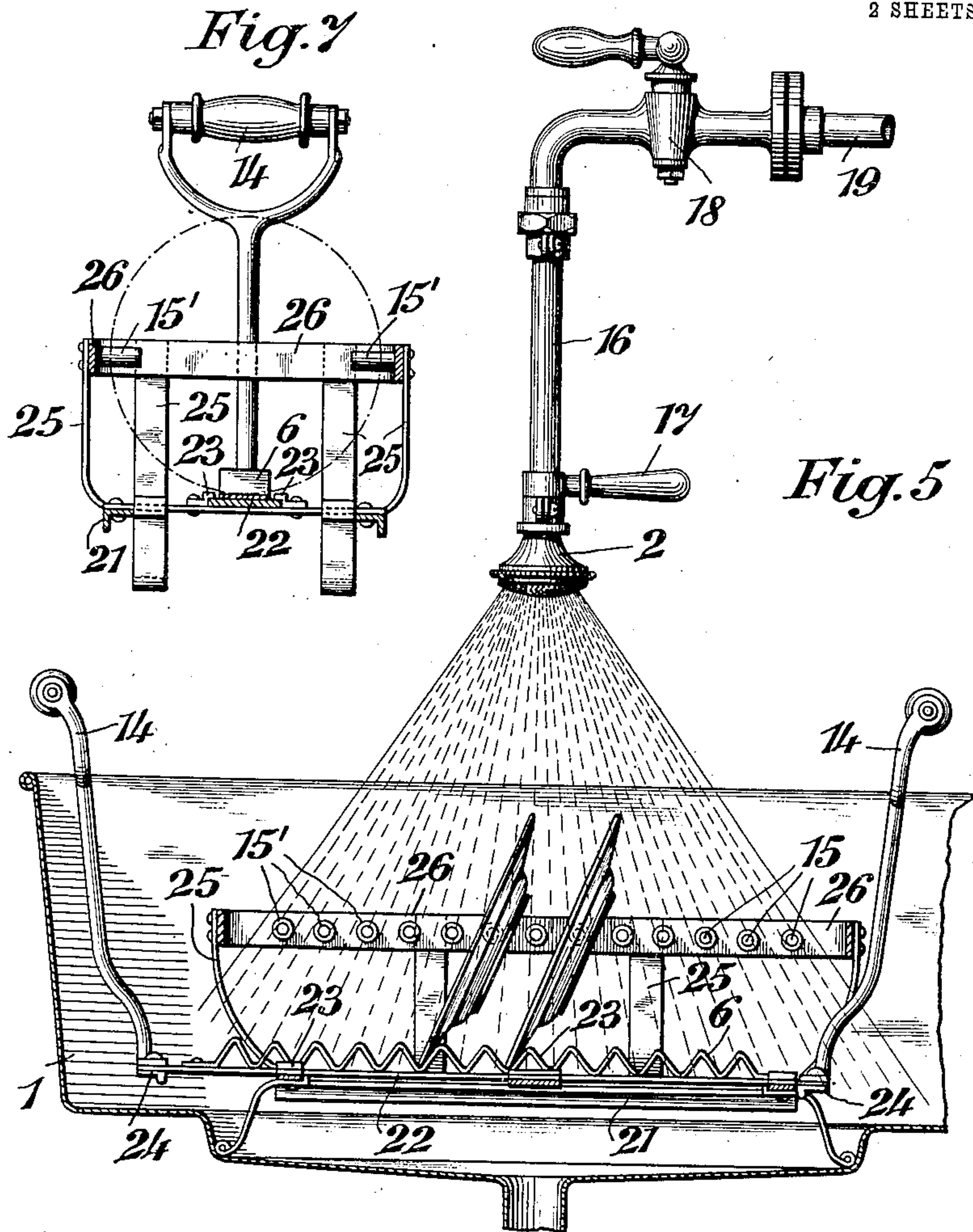
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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

GUSTAV JAEKLE, OF BASEL, SWITZERLAND, ASSIGNOR TO THE FIRM OF AKTIEN-GESELLSCHAFT FÜR DEN VERTRIEB VON KUCHENGESCHIRR-SPÜHLAPPARATEN "TRIUMPH," OF ZURICH, SWITZERLAND.

DISH-CLEANER.

962,763.

Specification of Letters Patent. Patented June 28, 1910.

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To all whom it may concern:

Be it known that I, GUSTAV JAEKLE, a citizen of the Republic of Switzerland, residing at Basel, "Hotel Storchen," Switzerland, have invented certain new and useful Improvements in or Relating to Dish-Cleaners; 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 letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to an apparatus for receiving plates and plate-like articles when rinsing the same by means of sprayers, with at least one corrugated supporting ledge at the bottom, on which the articles to be rinsed are placed edgewise.

This apparatus is provided at the top with a frame with rakes for adjusting and holding apart the articles to be rinsed. One of the two parts, supporting ledge and frame, is horizontally adjustable, so as to enable the parts to be rinsed to be given different positions.

Two constructions according to this invention are illustrated by way of example in the accompanying drawing in which:

Figure 1 shows a construction of the apparatus in longitudinal section, inserted into a rinsing trough arranged under a sprayer. Fig. 2 shows the apparatus in plan, and Figs. 3 and 4 are sections on lines A—A and B—B of Fig. 2. Fig. 5 shows another construction of the apparatus, in longitudinal section, also inserted into a rinsing trough arranged under a sprayer, while Fig. 6 is a plan of the apparatus and Fig. 7 a section on line C—C of Fig. 6.

In the construction shown in Figs. 1-4, the apparatus is loosely placed into a rinsing trough 1 which is arranged under a sprayer 2 supplied with water preferably hot, in such manner that the said apparatus cannot move in the longitudinal direction. The trough is provided with a water outlet and its lateral walls are so high as to prevent any splashing of the water.

The apparatus comprises a supporting frame consisting of a rectangular bottom frame 3 provided with feet, and of a rec-

tangular top frame 5 connected to the bottom one by braces 4, but made of a larger size than the bottom frame. On the bottom frame 3 is secured a supporting ledge 6 which preferably consists of a corrugated strip of metal extending in the longitudinal direction of the frame. In the corrugations of the said supporting ledge are arranged perforations 6' for the escape of the water. Inside the upper frame 5 is arranged a slightly shorter frame 7, 8 which is adjustable in the longitudinal direction of the frame 5 and is guided for the purpose by means of head screws 9 and pins 9' secured to it, in longitudinal slots 10 of the frame, and on fixed supports 11 between the said frames. Two stops 12 secured to the frame 5, project into the path of the frame 7, 8. The adjustable frame consists of the two U-shaped frame portions 7 and 8 which are placed over each other with their transverse sides and held together by means of bolts 13 provided with thumb nuts. The bolts are secured to the frame portion 7 and project through longitudinal slots 13' in the frame portion 8 (Figs. 2 and 3) so that, on loosening the thumb nuts the frame portion 7 can be moved relatively to the frame portion 8, and in that way the adjustable frame adjusted to receive smaller articles to be rinsed. The adjustable frame 7, 8 is provided with handles 14 secured to the transverse branches or sides of the frame portion 8 and bent in such manner that the hands of the attendant touching the same, will not come into contact with the hot water jets escaping from the sprayer 2. By means of the handles, the frame 7, 8 can be reciprocated within the frame 5, and its travel is limited by the stops 12. To the longitudinal sides of the frame portions 7 and 8 are secured in rows at the same distances as the corrugations of the supporting ledge 6, pins 15, which may be covered with rubber stalls or sleeves 15'. These two rows of pins 15 form two racks into which the articles to be rinsed are introduced (such as plates or similarly-shaped articles) and held apart by the pins or prevented from knocking against each other, and can be prevented from falling out from the apparatus by the longitudinal sides of the frame portions 7 and 8.

The sprayer 2 is connected by means of a

hose-piece 16 provided with a handle 17, to a cock 18 of a hot water pipe 19, and can be moved to and fro.

The articles to be rinsed, in the present case ordinary plates, are placed edgewise each between two pins 15 of the two racks and introduced into the corresponding corrugations of the supporting ledge 6, the frame 7, 8 being held in a central position by means of a latch 21 rotatably mounted on the frame 5 and engaging with recesses 20 of the frame 5 and of the frame portion 8. When the apparatus is completely filled with plates, the latch 21 is released, and the frame 7, 8 is then moved by means of the handles 14 into the end position shown in Figs. 1 and 2, the plates occupying such an oblique position that their inner sides are rinsed by the hot water jets escaping from the sprayer 2. By pushing the frame 7, 8 into the other end position, the plates will be brought into the oblique position shown by chain dotted lines, so that in this case their outer sides will be completely rinsed by the water sprayed. The change of position of the frame 7, 8 can be repeated as required.

The construction shown in Figs. 5 to 7 differs from that described above by the supporting ledge in this construction being adjustable, while the frame provided with the two racks constituted by the pins 15, is stationary. The construction in this case is as follows: On the bottom frame 21 of the supporting standard of the apparatus is arranged, so as to be adjustable in the longitudinal direction of the frame, a bar 22 carrying the corrugated supporting ledge 6, the said bar being guided in guides 23 of the frame 21 and provided with handles 14. Stops 24 secured to the bottom face of the bar 22, limit the travel of the bar with the supporting ledge. The upper frame 26 connected to the bottom frame 21 by means of braces 25, is not adjustable in the direction of its width (but one series of pins 15 could also be secured to a bar adjustable relatively to the other series of pins). By reciprocating the supporting ledge 6, the plates or other articles to be rinsed, placed in this case also into the racks and into the corrugations of the supporting ledge could be alternately brought into such oblique positions, that first the inside, and then the outside, of the plates would be rinsed by the hot water jets escaping from the sprayer 2. This construction could also be provided with a device for locking the supporting ledge in its central position.

In the two described and illustrated constructions of the apparatus, the inner face of the frame portion carrying the pins 15, could be provided with a rubber lining. Instead of one supporting ledge, two such ledges could be used. The length of the whole apparatus could also be modified to

suit the number of the articles to be rinsed that are to be received in the same.

In addition to the simplicity of its construction and use, the apparatus has further the advantages that the plates remain visible during the rinsing, and that it can be introduced into any already existing rinsing troughs.

I claim—

1. A dish cleaning apparatus comprising a supporting ledge for the articles to be rinsed, a frame in the upper portion of the apparatus, means for adjusting and holding apart the articles to be rinsed, said supporting ledge and frame being relatively movable longitudinally of the apparatus in order to enable different positions to be given to the articles to be rinsed.

2. A dish cleaning apparatus comprising a corrugated supporting ledge for the articles to be rinsed, a frame in the upper portion of the apparatus, pins for adjusting and holding apart the articles to be rinsed, said supporting ledge and frame being relatively movable longitudinally of the apparatus in order to enable different positions to be given to the articles to be rinsed.

3. A dish cleaning apparatus comprising a corrugated supporting ledge in its bottom portion, a frame in the upper portion of the apparatus provided with racks and adjustable in the direction of its width, said supporting ledge and frame being relatively movable longitudinally of the apparatus.

4. A dish cleaning apparatus comprising a corrugated supporting ledge in its bottom portion, a frame in the upper portion of the apparatus provided with pins and adjustable in the direction of its width, one of the two parts, the supporting ledge and the frame, occupying a fixed position and the other being adjustable in fixed guides and provided with handles for shifting.

5. A dish cleaning apparatus comprising a corrugated supporting ledge fixed in the bottom portion of the apparatus, a frame adjustable in fixed guides in the upper portion of the apparatus and provided with racks and with handles for shifting.

6. A dish cleaning apparatus comprising a corrugated supporting ledge in the bottom portion of the apparatus, a stationary bearing frame, a movable frame mounted within the latter and guided by means of pins taking into longitudinal slots in the stationary frame, said movable frame provided with racks and with handles for shifting.

7. A dish cleaning apparatus comprising a corrugated perforated supporting ledge in its bottom portion, a frame in the upper portion of the apparatus, said supporting ledge and frame being relatively movable longitudinally of the apparatus, a series of pins secured in rows to two opposite sides

of the frame and arranged the same distance apart as the corrugations of the supporting ledge.

5 8. A dish washing apparatus comprising a corrugated supporting ledge in its bottom portion, a frame in the upper portion of the apparatus consisting of two portions each of which is provided with a rack, one of said portions being adjustable relatively to the
10 other in the direction of the width of the frame.

9. A dish washing apparatus comprising a corrugated supporting ledge in its bottom portion, a frame in the upper portion of the
15 apparatus provided with racks and adjust-

able in the direction of its width, one of the two parts, the supporting ledge and the frame, occupying a fixed position and the other being adjustable in fixed guides and provided with handles for shifting and with 20 a locking device, by means of which latter it can be locked in its central position.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

GUSTAV JAEKLE.

Witnesses:

GEO. GIFFORD,
ARNOLD ZUBER.