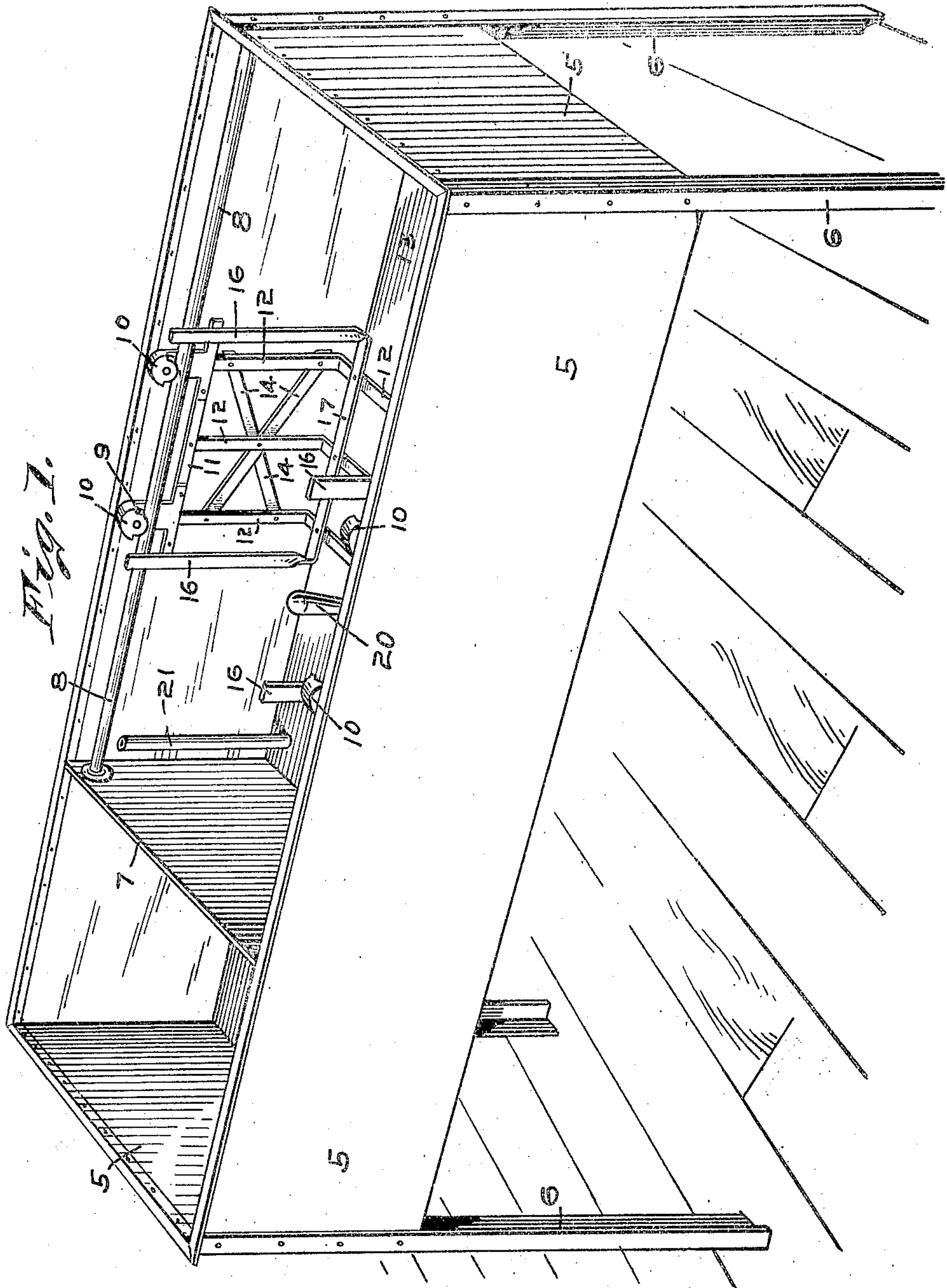


No. 818,427.

PATENTED APR. 24, 1906.

I. L. FRANKEM.  
DISH WASHING MACHINE.  
APPLICATION FILED JAN. 9, 1905.

2 SHEETS—SHEET 1.



Witnesses:

L. B. Koerner,  
Wm. H. Hurte.

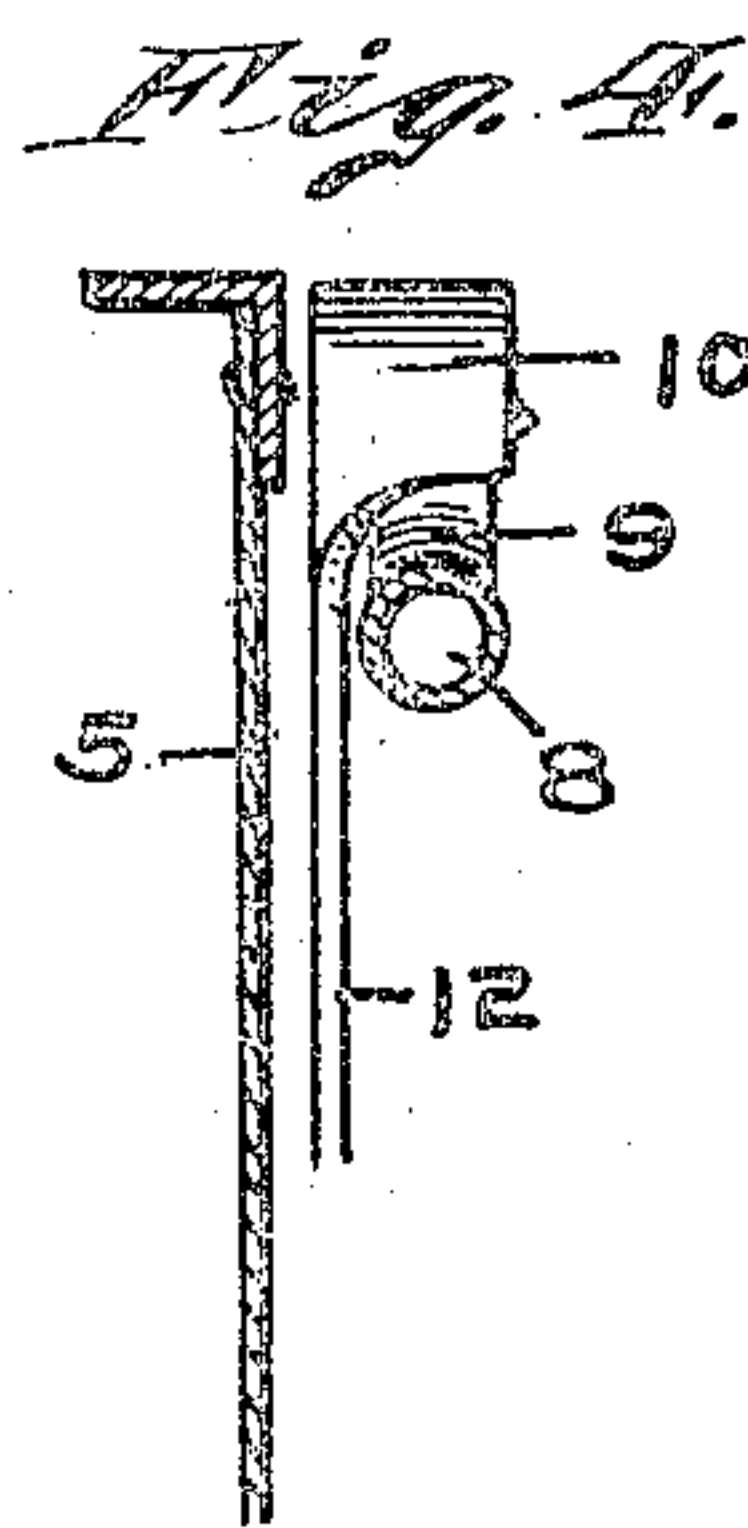
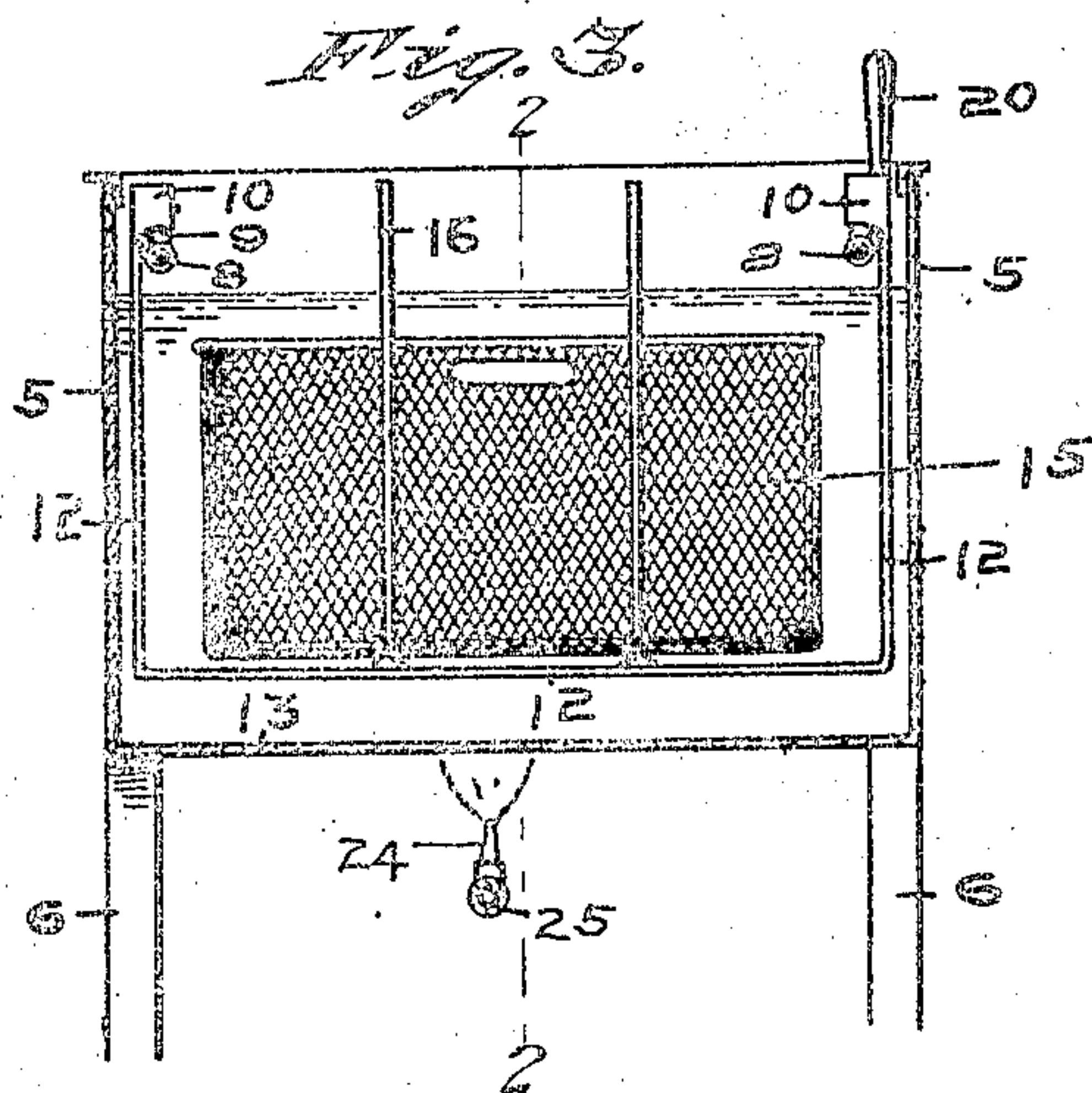
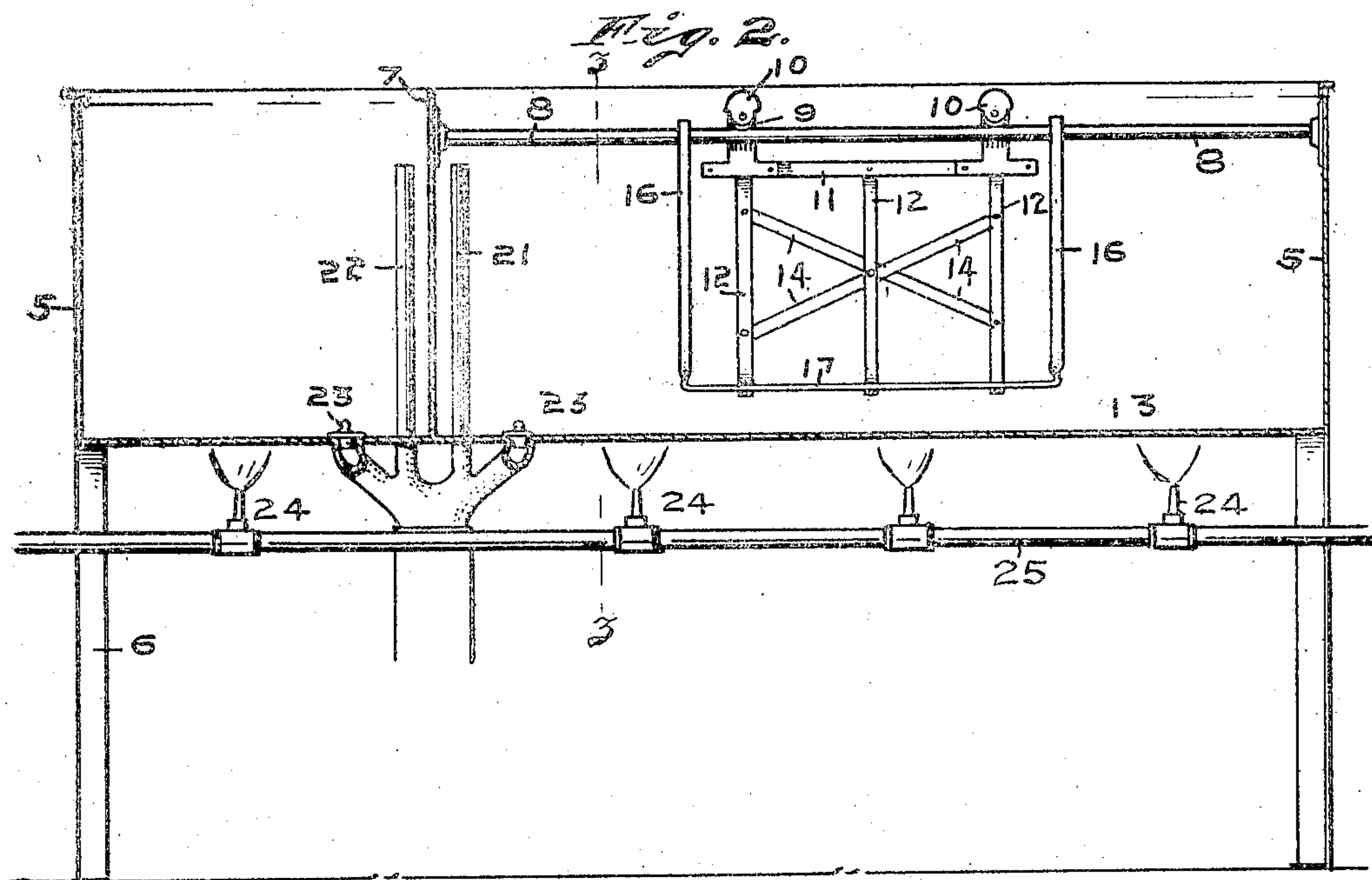
Inventor  
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ATTORNEYS.

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# UNITED STATES PATENT OFFICE.

ISAAC L. FRANKEM, OF INDIANAPOLIS, INDIANA.

## DISH-WASHING MACHINE.

No. 818,427.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed January 9, 1905. Serial No. 240,340.

*To all whom it may concern:*

Be it known that I, ISAAC L. FRANKEM, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Dish-Washing Machines, of which the following is a specification.

This invention has for its object to provide an improved dish-washing apparatus; and to this end it consists of the novel devices and combinations hereinafter described, and set forth in the claims.

I accomplish the objects of my invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my dish-washing apparatus in operative position in a pan or tank constructed to receive it, the same being shown without the basket and its dishes and the tank being shown without the water in which the dishes are washed. Fig. 2 is a longitudinal vertical section of the device shown in Fig. 1, taken on the dotted line 3 3 of Fig. 3. Fig. 3 is a transverse vertical section of same on a plane between the traveling carriage and the inner partition of the tank, taken on the dotted line 2 2 of Fig. 2; and Fig. 4 is a detail, in enlarged cross-section, of the tubular way which supports the carriage and the adjacent wall of the tank.

Like characters of reference indicate like parts throughout the several views of the drawings.

5 represents the tank, in which my invention is operated, and 6 represents the legs supporting same. The tank is preferably divided by means of the partition 7 into two compartments, in the larger one of which the dishes will be washed and in the smaller one of which they will be rinsed. Extending from the outer end wall of the larger tank to the partition 7 and supported thereby are the two parallel ways 8, here shown as being formed out of gas-pipe, which will be the preferred material for that use.

Mounted on each of the tubular ways 8 are the two grooved wheels 9, having spindles which are mounted in the housings 10. These latter have hanger extensions which are made fast to a horizontal bar 11. Secured to the said bars 11 are the three parallel bars 12, each of which extends down from said bars 11 to within a suitable distance of the bottom 13 of the tank and then extend transversely across the tank parallel with said bottom in

the manner as clearly shown in the drawings. The vertical members of said bars 12 are braced by means of the diagonal bars 14.

15 is a basket, preferably formed out of woven wire, which will be filled with the dishes to be washed, and the filled basket will be placed in the tank upon the horizontal members of the bars 12. The longitudinal displacement of the basket is prevented by the vertical standards 16, which are formed by bending up the free ends of bars, the body portions 17 of which are laid upon the horizontal portions of said bars 12 and are secured thereto to additionally brace and strengthen the basket-holding structure. This device forms a carriage which is movable on the tubular ways 8, and the dish-cleansing operation is accomplished by imparting a reciprocating movement to the carriage on said ways.

The tank will be filled with hot soapsuds so as to wholly or partially cover the dishes contained in the basket, and the impact of the water against the dishes as the carriage loaded with them is moved to and fro therein serves to loosen and remove the foreign matter with which they are covered or soiled. The faster the carriage is moved back and forth in the water the greater the impact of the latter will be against the dishes and more rapidly they will be cleansed.

20 is a handle attached to the carriage, by means of which the latter will be moved.

21 is a drain-pipe which connects with the sewer, as shown in Fig. 2, and has its open mouth at the height of the water-level in the tank for the purpose of draining off the accumulation of grease that rises and floats upon the top of the water. 22 is a similar drain-pipe in the rinsing-compartment of the tank, and both compartments have the valve-closed drains 23 from their bottoms, which also communicate with the sewer for the emptying of both tanks of their liquid contents.

After the dishes have been thoroughly washed in the large compartment the basket containing them is lifted out and is deposited in the rinsing-section of the tank. There they are rinsed with clean hot water, and upon removal their heated condition causes an evaporation which dries them without further labor.

Both compartments of the tank may be heated by burners 24, fed from a gas-pipe 25 passing thereunder.



Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. In a dish-washing machine, a tank divided by a partition into two compartments, a pair of horizontal and parallel tubular ways supported by said partition and the end of the tank, pulleys or wheels mounted on the tubular ways, housings within which said wheels are mounted, hangers depending from said housings, horizontal bars supported by said hangers, a plurality of bars fastened to said horizontal bars and extending thence down to near the bottom of the tank and thence horizontally across the tank, braces for said bars, a handle attached to the carriage thus formed, and a removable dish-holding receptacle of perforate material supported upon the horizontal members of said plurality of bars.

2. In a dish-washing machine, a tank divided by a partition into two compartments, each of said compartments having a separate tubular overflow, one of said compartments having a pair of horizontal tubular tracks or

ways, each adjacent to opposite sides of its tank and supported from the end of the tank and from said partition, a plurality of wheels mounted on each of said ways, each of said wheels having a hanger, horizontal bars supported by said hangers, other bars having their ends attached to opposite ones of said horizontal bars and extending first downwardly and then horizontally across the tank, cross-bars to brace the downwardly-extended portions of said last bars, other bars crossing the horizontal members of the bars which connect the opposite horizontal bars and having their ends bent upwardly to form stops, a handle extension from the carriage thus formed, and a receptacle of woven wire to receive the dishes to be washed, said receptacle being removably secured upon the carriage

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 3d day of January, A. D. 1905.

ISAAC L. FRANKEM. [L. s.]

Witnesses: •

F. W. WOERNER,

J. A. MINTURN.