

(No Model.)

T. E. JONES.
DISH CLEANER.

No. 558,961..

Patented Apr. 28, 1896.

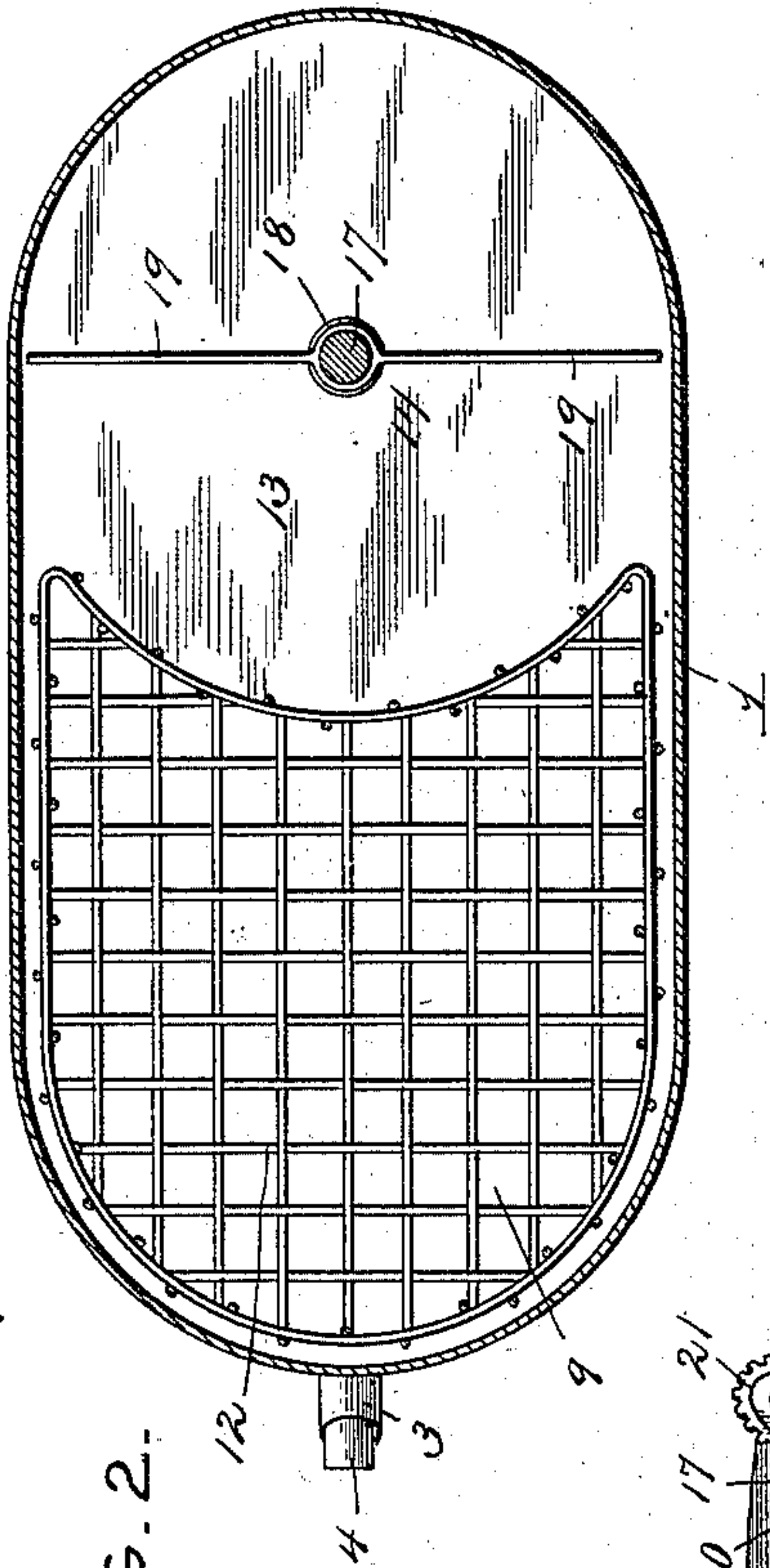


FIG. 2.

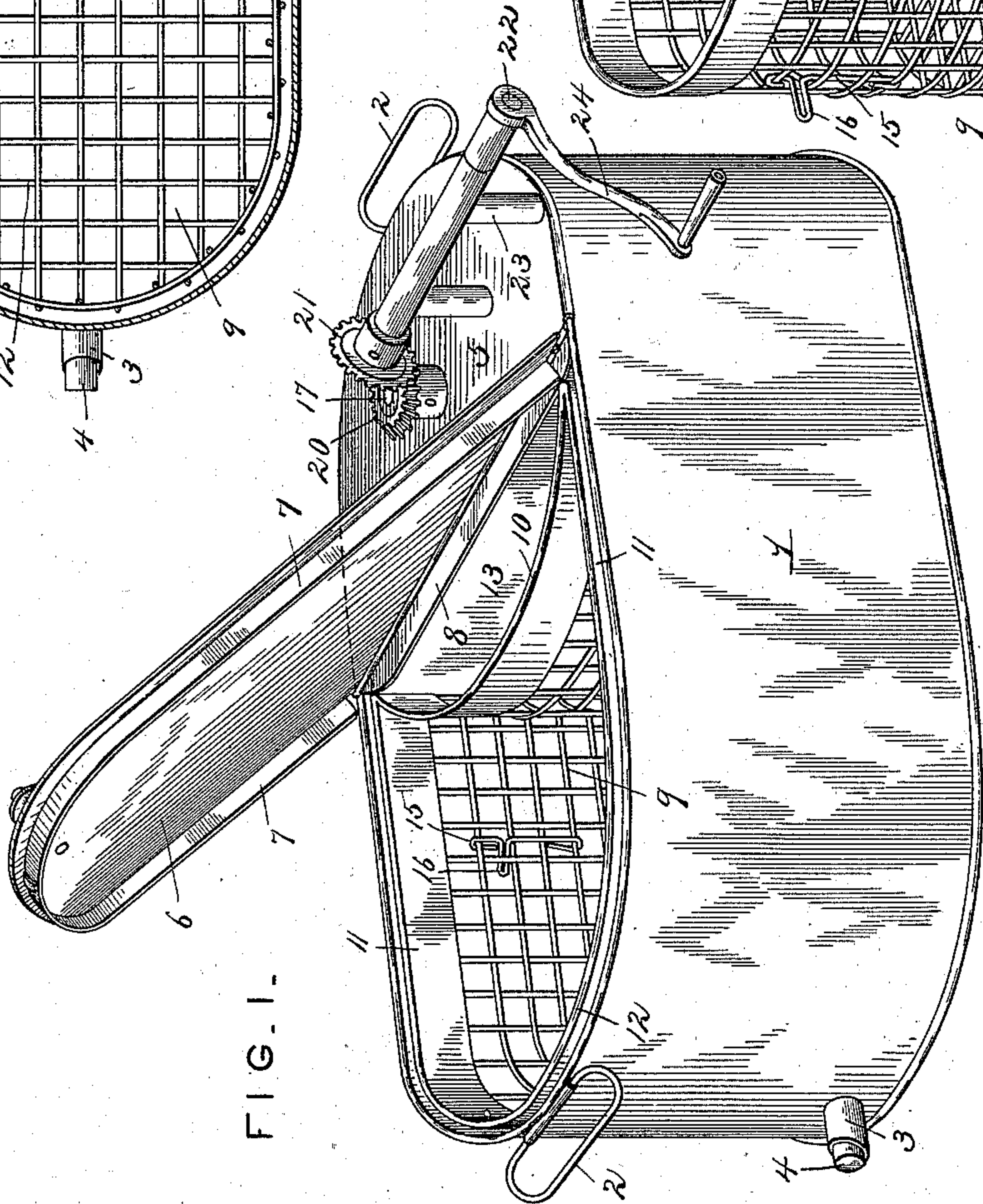
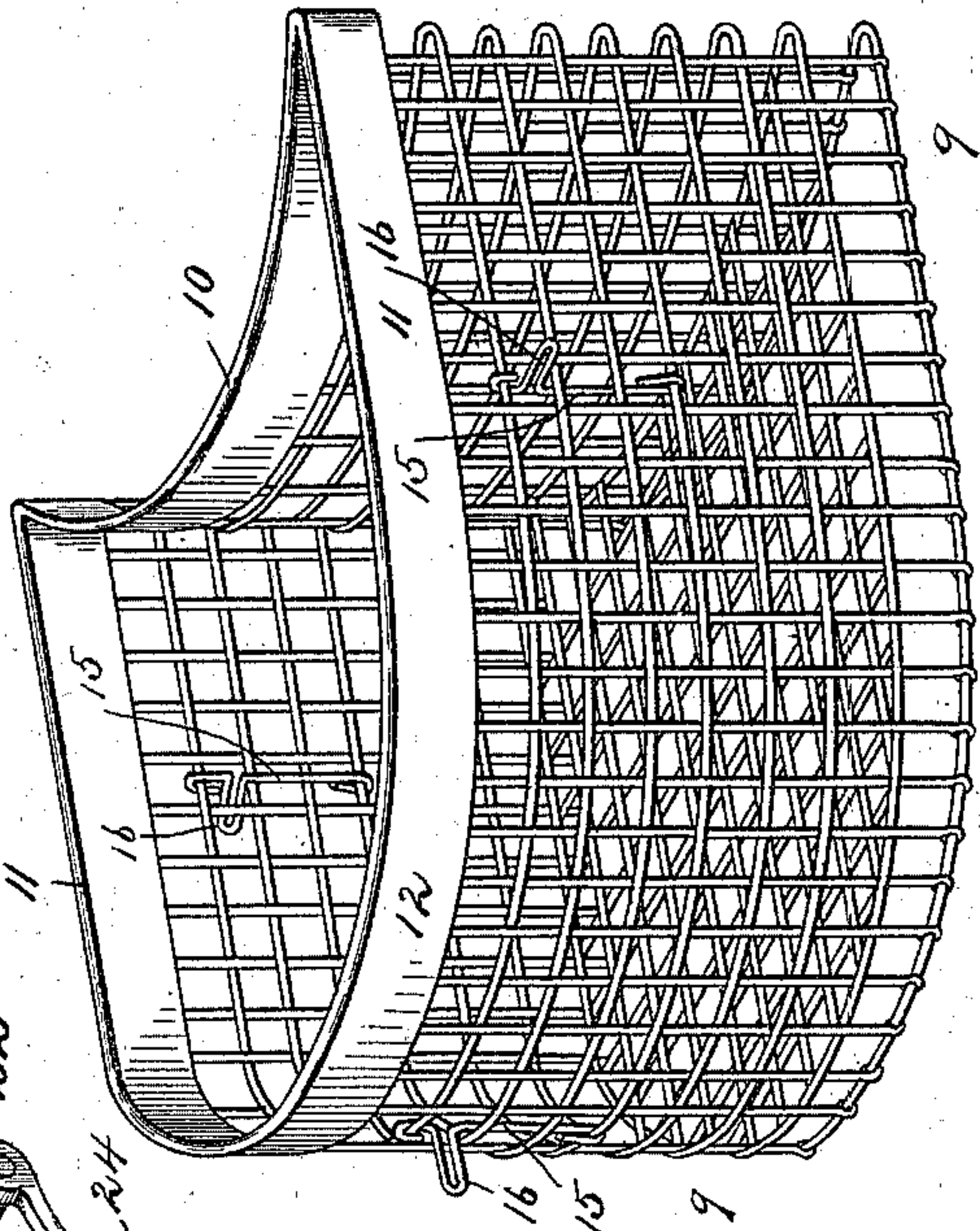


FIG. 1.

FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS E. JONES, OF OTTUMWA, IOWA.

DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 558,961, dated April 28, 1896.

Application filed June 8, 1895. Serial No. 552,146. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. JONES, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented a new and useful Dish-Washer, of which the following is a specification.

This invention relates to apparatus for washing dishes, and appertains more especially to that class which are provided with a flutter or splash wheel by means of which the water is caused to circulate through the basket in which the dishes or articles to be cleansed are placed.

The primary object of the invention is economy of space in the construction of the dish-washer and at the same time to provide a basket of large dimensions compared with the size of the device, and whereby a comparatively large flutter or splash wheel is obtained, so as to insure a thorough circulation of the water through every part of the basket during the process of cleansing the dishes.

The invention will be more particularly set forth hereinafter and claimed, and is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the improved dish-washer, the cover of the boiler being slightly elevated. Fig. 2 is a horizontal section thereof. Fig. 3 is a detail view of the basket.

The boiler 1 is oblong and rounded at its ends and is provided with handles 2, by means of which it can be readily moved from one place to another. The water can be drawn from the boiler through a spout 3, located at its lower end and which is normally closed by a stopper 4. The upper side of the boiler is closed by a cover formed in two parts 5 and 6, the part 5 being stationary and firmly attached to an end portion of the boiler, and the part 6 being hinged to the part 5 and provided with a depending rim 7, adapted to enter the boiler, so as to prevent the splashing outward of the water when the device is in use. The stationary or fixed part 5 of the cover extends about one-third the length of the boiler, and the movable or hinged part 6 extends the remaining two-thirds, and in order to provide against the splashing outward of the water between the meeting ends of the

parts 5 and 6 a strip 8 is secured in any manner to the part 5 and projects a short distance beyond the edge thereof, so as to overlap the joint occurring between the parts 5 and 6, and this strip 8 serves another purpose—namely, of retaining the basket 9 in proper position after it is placed within the boiler by engaging with its inner or concaved end 10.

The basket 9 is preferably formed of wire-netting and is reinforced at its upper edge by a metal strip 11 and conforms in shape to the end portion of the boiler. One end of the basket, as 12, is convexed to conform to the contiguous rounded end of the boiler, and its opposite end 10 is concaved on its outer side, so as to form with the adjacent end of the boiler a circular space or well 13, in which the flutter or splash wheel 14 operates, and the end walls 10 and 12 are approximately parallel, and are semicircular to correspond with the rounded ends of the boiler, as previously intimated. The bottom of the basket is slightly elevated to allow for the precipitation of foreign matter and to prevent the same from being forced through the basket by the action of the flutter or splash wheel.

After the cleansing of the dishes the basket is suspended within the boiler, and to effect this in a simple manner said basket is provided on its sides and at one end with supports 15, the latter being formed of wire, which is folded between its ends to form outwardly-extending portions 16, and which has its extremities looped about horizontal wires of the basket, substantially as shown, whereby the normal tendency of the parts 16 is to spring outward and cause said parts 16 to occur at right angles to the sides of the basket and engage with the top edge of the boiler and support the basket in an elevated position for draining the dishes or for any other required purpose.

The splash or flutter wheel 14 comprises a vertical shaft 17, which is stepped at its lower end in a socket 18, provided on the bottom of the boiler, and which is journaled near its upper end in the stationary or fixed part 5 of the cover, and wings 19, secured to the lower portion of the shaft 17 and extending outwardly therefrom. The upper end of the shaft 17 projects above the cover and is provided with a bevel-pinion 20, which meshes

with a corresponding bevel-pinion 21 on a transverse shaft 22, journaled in a sleeve attached to the cover by standards 23, and the outer end of the shaft 22 is fitted with a crank 5 24, by means of which the shaft 22 is rotated and the flutter or splash wheel actuated, so as to cause a circulation of the water through the basket 9 in the operation of the invention.

The operation of the invention is readily 10 understood from the foregoing description, and advantages and objects not set forth are apparent, and in constructing the invention to meet various demands various changes in the form, proportion, and the minor details 15 of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new is—

20 1. In a dish-washer, the combination with the boiler, of a basket comprising upright and horizontal wires forming meshes, and supports secured to the sides of the basket to hold the latter in suspension within the boiler, 25 each support formed of a single length of wire disposed vertically and bent between its ends to form an outwardly-extending horizontal portion which projects through a mesh of the basket and having its ends looped 30 around horizontal wires of the basket to at-

tain a spring action for throwing the said horizontal portion of the support outward across the edge of the boiler, substantially as and for the purpose set forth.

2. The herein-described dish-washer, com- 35 prising an oblong boiler having rounded ends, a basket adapted to be fitted within an end portion of the boiler and having the end adjacent to the rounded end of the boiler convexed and the opposite end concaved, and 40 having a circular space or well formed between the concaved end of the basket and the opposite end of the boiler, a cover comprising a fixed and a hinged part, a strip secured to the fixed part and adapted to pro- 45 ject across the space formed between the contiguous ends of the two parts of the cover, said strip adapted to engage with the concaved end of the basket and retain the latter in proper position, a splash or flutter wheel 50 operating in the said circular space or well, and actuating mechanism therefor substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 55 the presence of two witnesses.

THOMAS E. JONES.

Witnesses:

C. E. NORTON,
A. W. ENOCH.