

(No Model.)

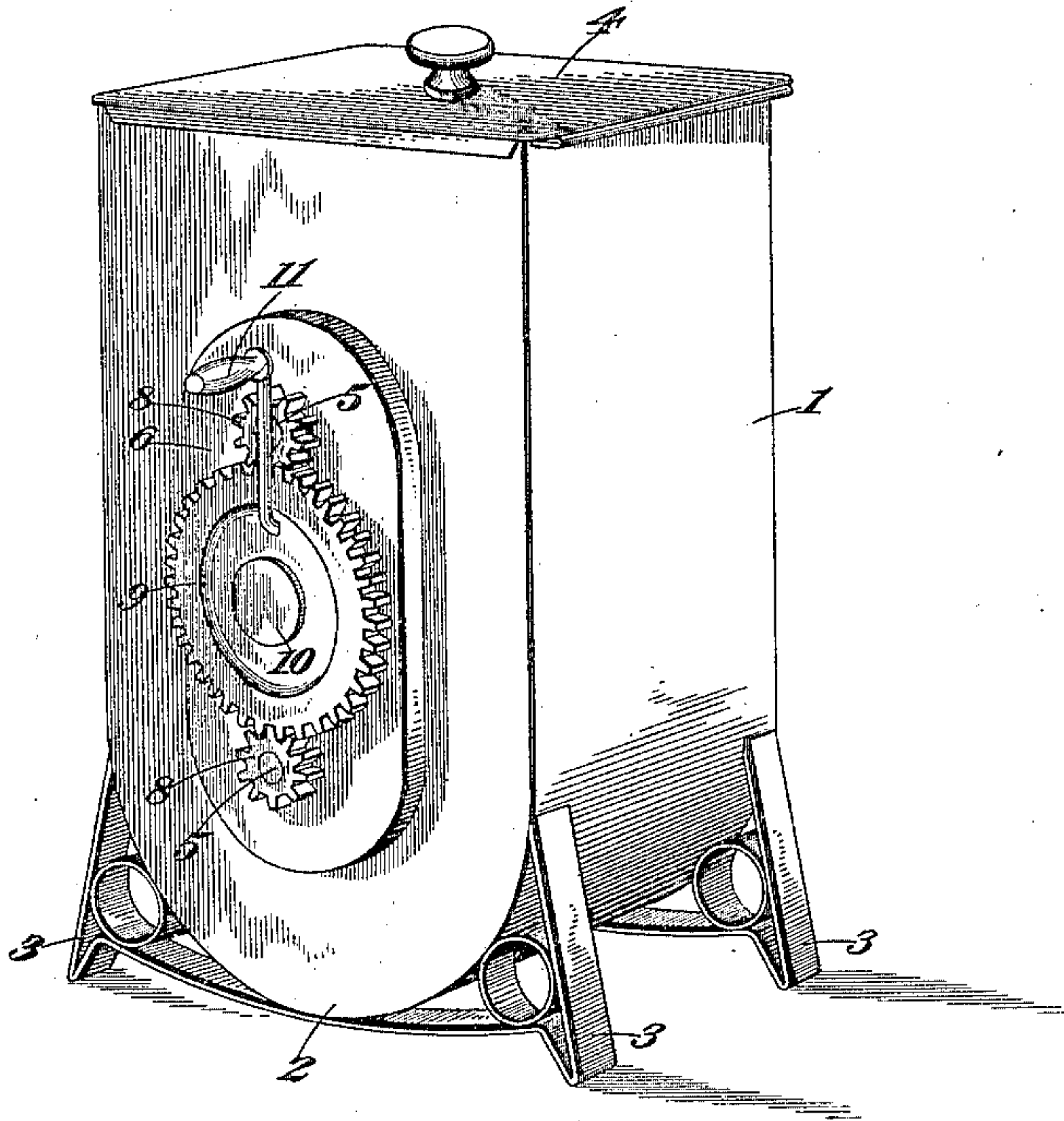
2 Sheets—Sheet 1.

W. SPRUIN & J. BARNETT.  
CULINARY BEATER.

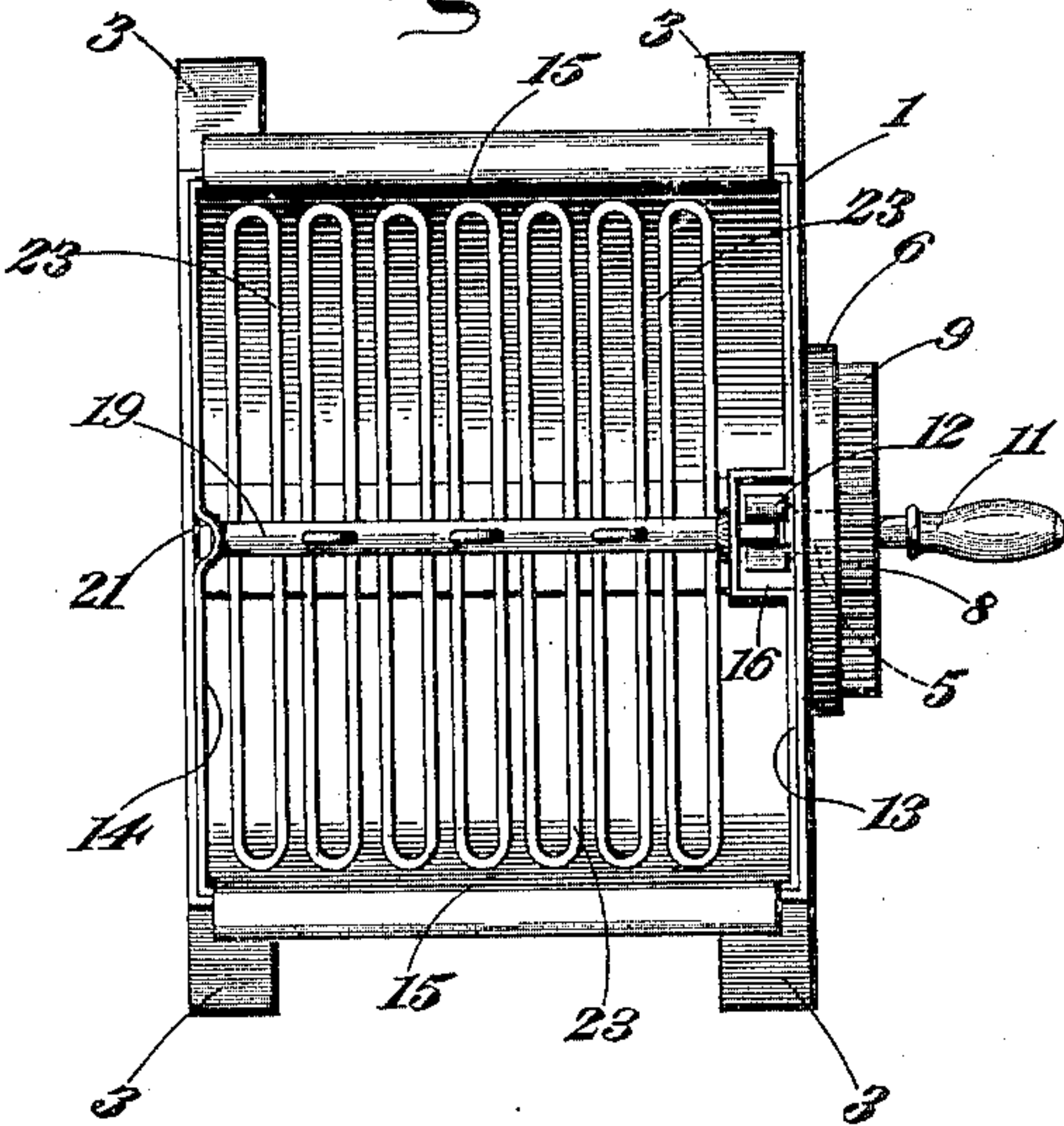
No. 599,268.

Patented Feb. 15, 1898.

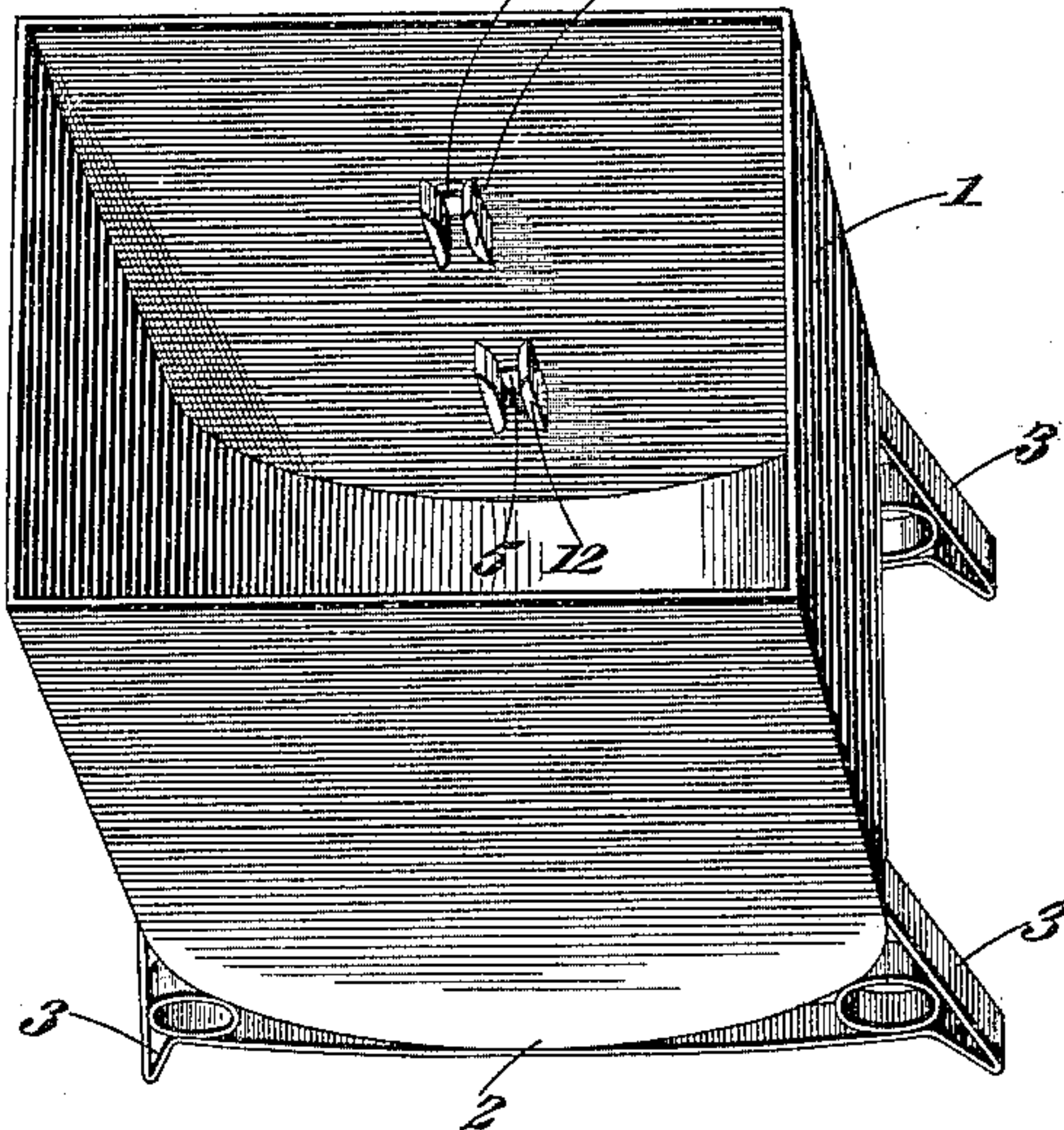
*Fig. I.*



*Fig. II.*



*Fig. III.*



Witnesses

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Inventors:

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(No Model.)

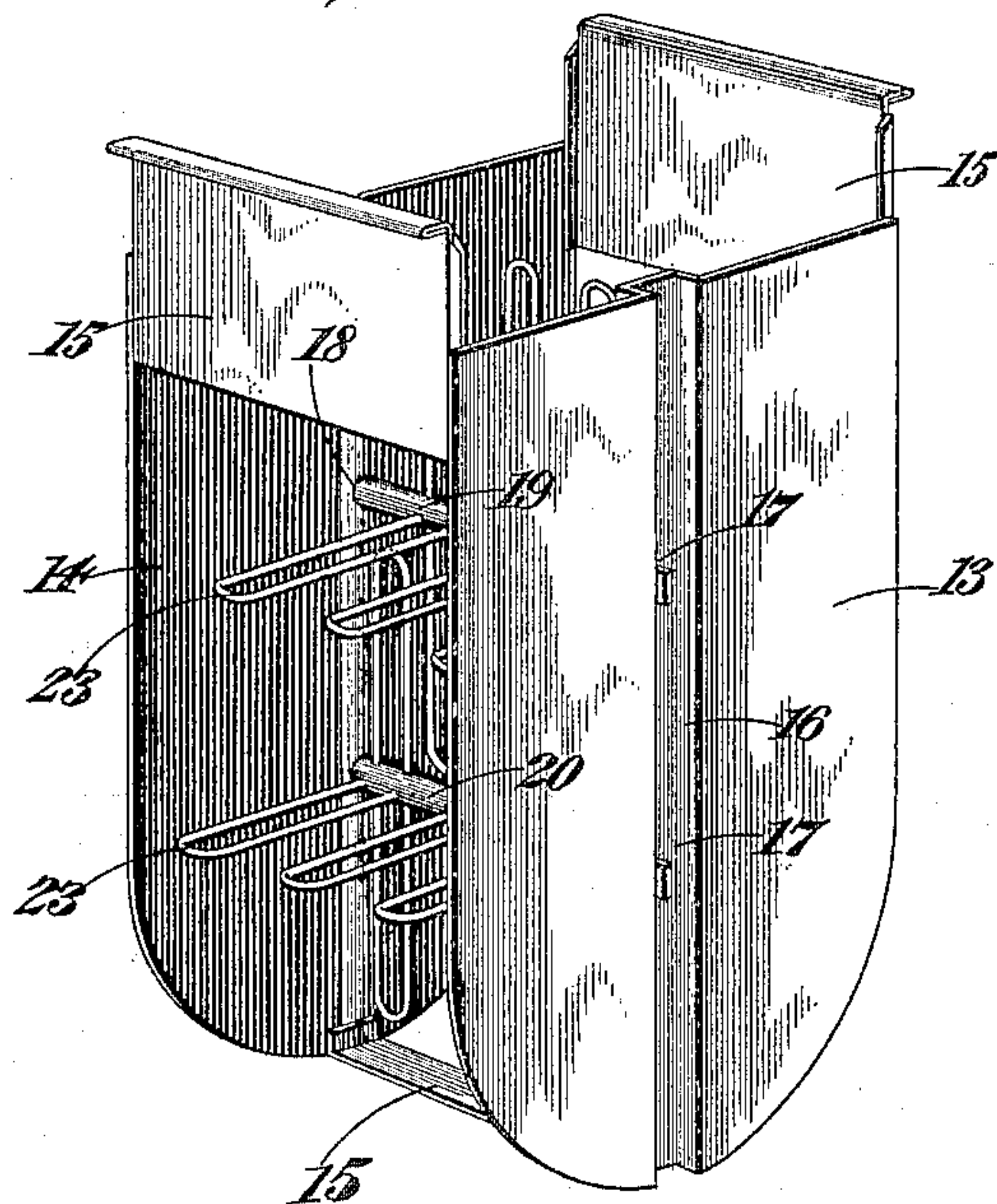
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W. SPRUIN & J. BARNETT.  
CULINARY BEATER.

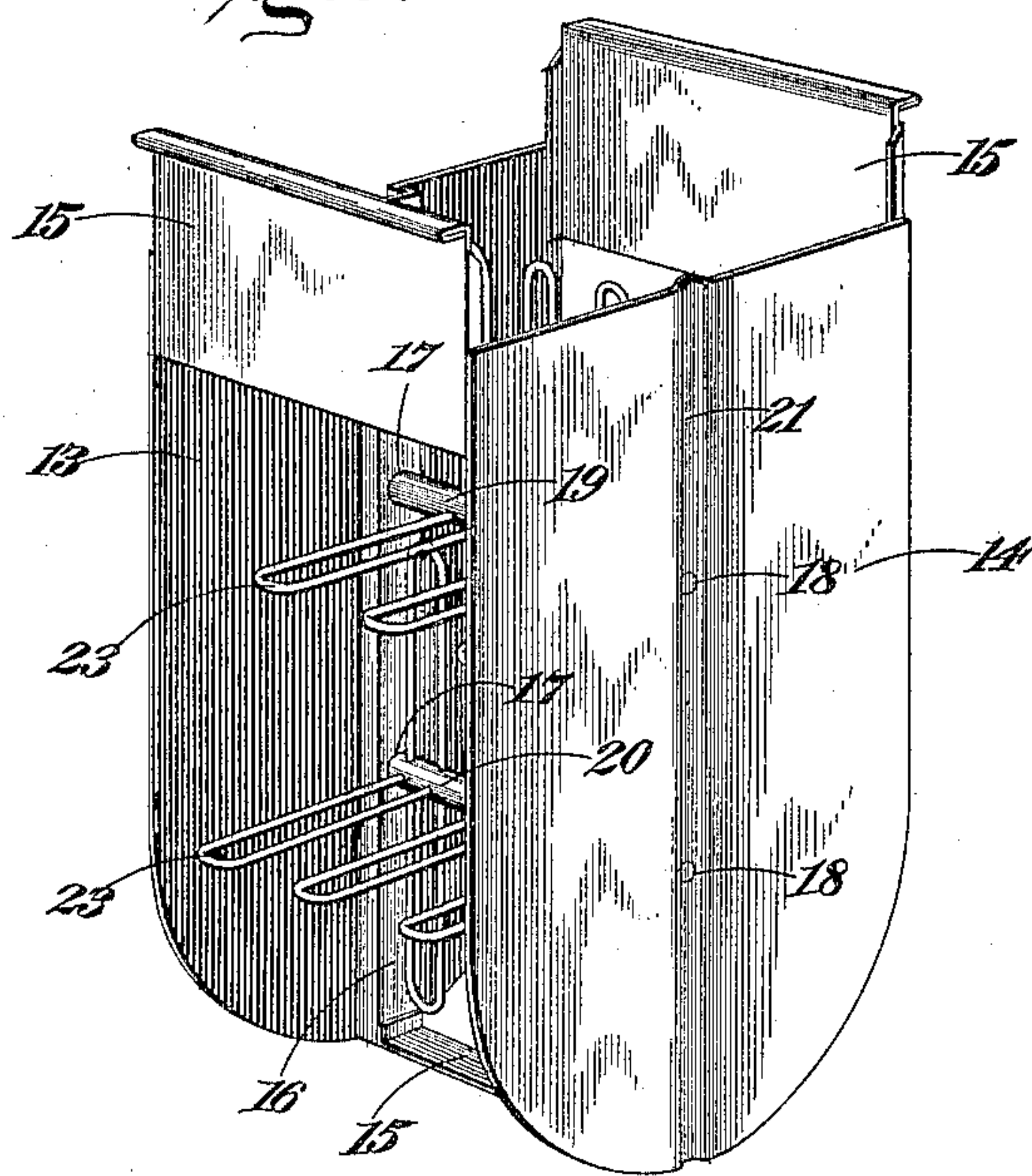
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*Fig. IV.*



*Fig. V.*



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# UNITED STATES PATENT OFFICE.

WILLIAM SPRUIN AND JOHN BARNETT, OF ROCHESTER, NEW YORK.

## CULINARY BEATER.

SPECIFICATION forming part of Letters Patent No. 599,268, dated February 15, 1898.

Application filed July 8, 1897. Serial No. 643,897. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM SPRUIN and JOHN BARNETT, of Rochester, in the county of Monroe, State of New York, have invented certain new and useful Improvements in Culinary Beaters, of which the following is a complete specification, reference being had to the accompanying drawings.

The object of our invention is to produce a simple and durable culinary beater which is prompt and efficient in operation, which can be readily cleansed, and that is peculiarly adapted to be constructed in large sizes for restaurant and hotel use, for example.

In the accompanying drawings, Figure I is a perspective view of our beater complete, showing the indicator in this instance, the operating-handle, in the position denoting that the parts are adjusted for the removal of the agitator-frame. Fig. II is a top plan view of the same with the latter removed. Fig. III is a perspective view of the interior of the case with the agitator-case removed, looking inwardly from above. Fig. IV is a perspective view of the agitator-frame removed, looking at it from one side. Fig. V is a similar view looking at it from the other side.

Referring to the figures on the drawings, 1 indicates a case or shell of any suitable or preferred construction, being provided, in the form illustrated, with a curved bottom 2, legs 3, and a removable cover 4. Upon one side of the frame we provide one or more arbors 5, the number being equal to the number of agitators with which the machine is equipped. For the arbors we provide suitable bearings, and preferably construct for that purpose upon the side of the case a housing 6 to afford a bearing of sufficient extent for the firm support of the arbors.

In connection with the arbor or arbors we provide suitable driving mechanism. As illustrated, we provide each of the arbors with an exterior fixed pinion 8 and provide an intermediate gear 9, intermeshing with the pinions and revolving upon a stud 10, projecting from the case or from the housing.

Upon the gear 9 we provide, in the form of machine illustrated, a crank-handle 11, by which the gear may be rotated manually, for example, or mechanically, if preferred, in large machines in order to impart rapid ro-

tatory movement to the pinions 6 and their respective arbors.

Each of the arbors is provided on its inner end with a coupling member—as, for example, a fixed pair of jaws or a bifurcated head 12. The members of each pair of jaws are preferably divergent at their opposite extremities in order to facilitate engagement with the shafts, which, as will hereinafter appear, they are designed to actuate. To effect engagement of the shafts with the jaws, it is necessary to bring the latter into a certain position in alinement with each other. Such a position may be indicated, for example, by the position of the crank-handle with respect to the housing.

In Fig. I the crank-handle is shown as in alinement with the upper arbor 5, that position indicating that the jaws are in vertical alinement.

The mechanism above described presents practically no internal obstruction within the case 1, so that the case may be thoroughly cleaned as often as required by hand in the ordinary way.

We prefer for the purpose indicated in the last paragraph to mount the effective operative mechanism upon a separate removable frame, which frame, being composed, as illustrated, of side pieces 13 and 14 and cross-pieces 15, uniting the side pieces, fits snugly within the interior of the case 1 and is adapted to be inserted when the machine is to be used and to be removed with facility as often as it is necessary to clean the machine. In the side pieces 13 we provide a channel 16 sufficiently wide and deep to enable the frame to be slipped into the case 1 without interference with the jaws 12 upon the interior ends of the arbors 5.

In suitable bearings 17 and 18 in the side pieces 13 and 14 of the frame we provide revoluble shafts 19 and 20, the number corresponding to the number of arbors 5 with which the case 1 is provided. The bearings in which the shafts turn are located in the channel in the side piece 13 and in a shallow groove 21 in the side piece 14, the latter groove being provided to accommodate the ends of the shafts and protect them from injurious contact with the contiguous side of the case 1. The shafts 19 and 20 are provided



with suitable fingers, fins, or paddles 23, which are located upon the respective shafts, so that during the rotation of the shafts the fingers upon one will pass freely but in close juxtaposition to the fingers upon the other shaft.

The particular shape and arrangement of the fingers is entirely immaterial. It is also immaterial whether they are made rigid or yieldingly resilient.

10 What we claim is—

1. In a culinary beater, the combination with a case, and actuating mechanism, of a removable frame, operating mechanism carried therein, and means within the case for 15 operatively uniting the actuating mechanism on the case and the operating mechanism on the frame, substantially as set forth.

2. The combination with a case, actuating mechanism, and a removable frame fitting 20 within the case, of operating mechanism carried upon the removable frame, and means within the case for detachably uniting the actuating mechanism and the operating mechanism in operative relations one with the 25 other, substantially as set forth.

3. The combination with a case, actuating mechanism and a coupling member, extending within the case and operatively connected with the actuating mechanism, of a frame, 30 operating mechanism carried thereon, and means for uniting the operating mechanism

with the coupling member of the actuating mechanism, substantially as set forth.

4. The combination with a case, actuating mechanism, and an internally - extending 35 coupling member operatively connected with the actuating mechanism, of a frame provided with operating mechanism, there being a channel in the frame permitting the introduction of the frame within the case, so as to 40 unite the operating mechanism with the coupling member, through the insertion of the frame within the case, substantially as set forth.

5. The combination with a case, actuating 45 mechanism, and a plurality of coupling members operatively connected with the actuating mechanism and extending within the case, of means for alining the coupling members, a frame, and a plurality of shafts upon the 50 frame adapted to operatively engage with the coupling members, respectively, when the frame is inserted within the case, substantially as set forth.

In testimony of all which we have hereunto 55 subscribed our names.

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Witnesses:

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