

L. NELSON.
CULINARY DEVICE.

APPLICATION FILED FEB. 15, 1909.

928,397.

Patented July 20, 1909.

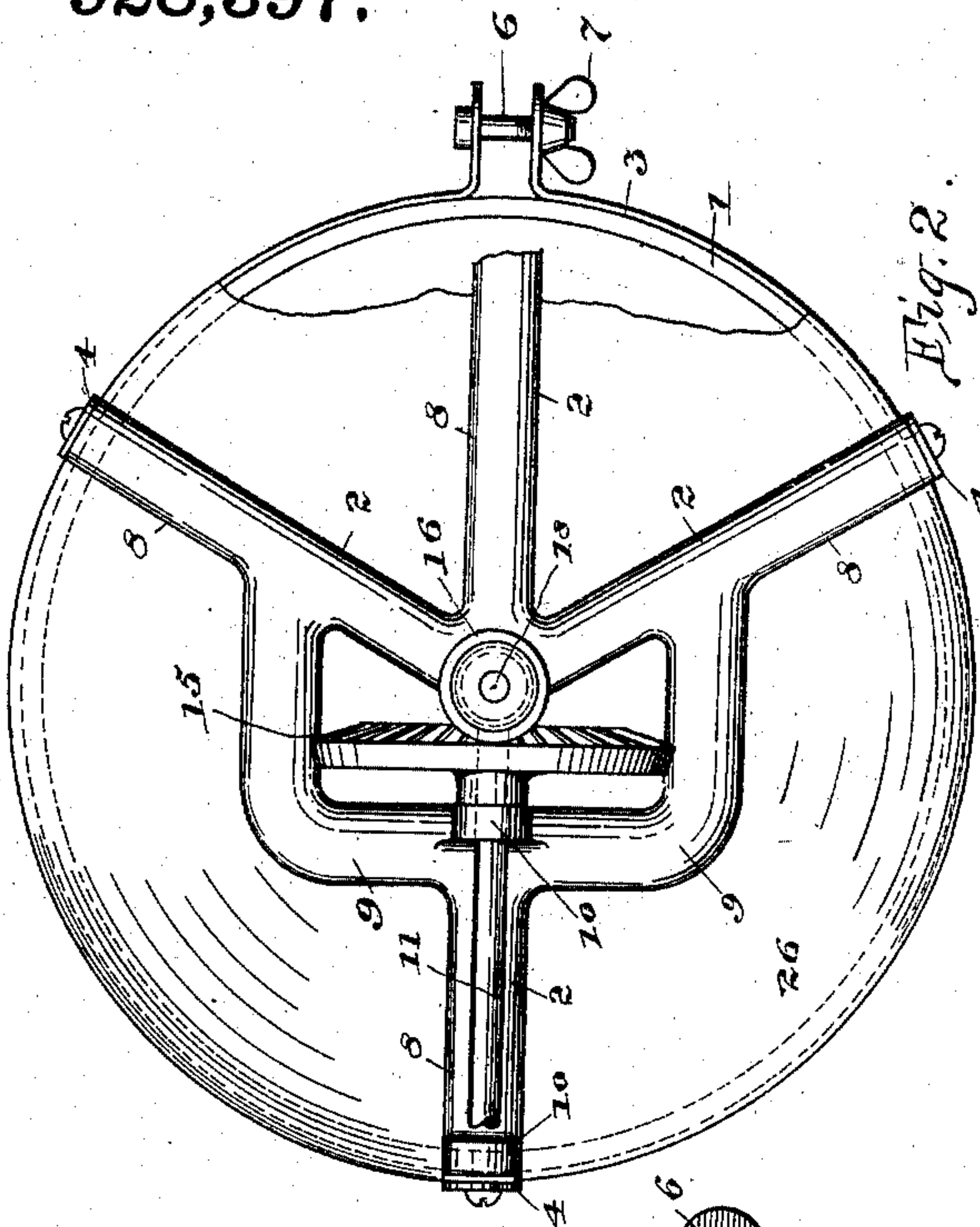


Fig. 2.

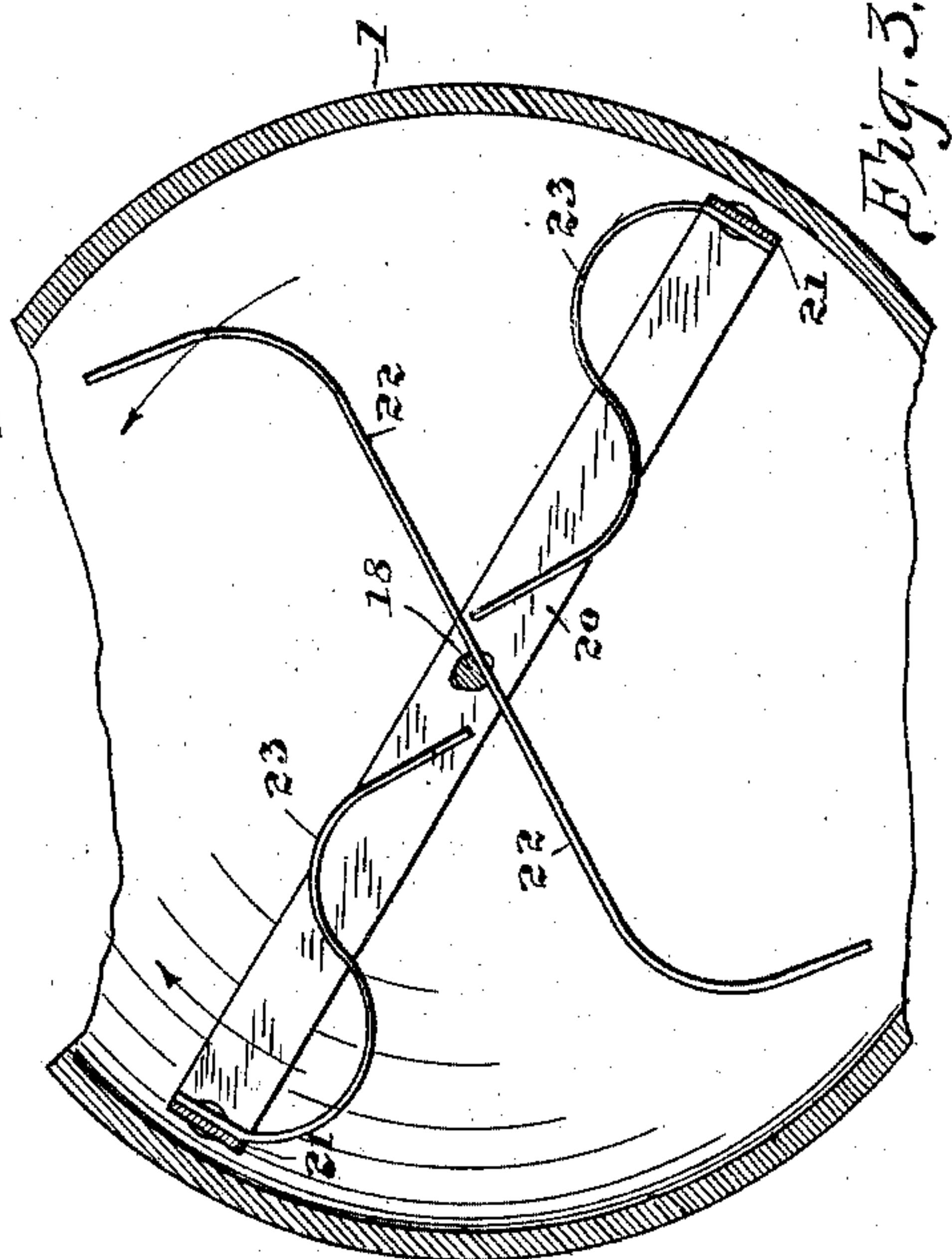


Fig. 3.

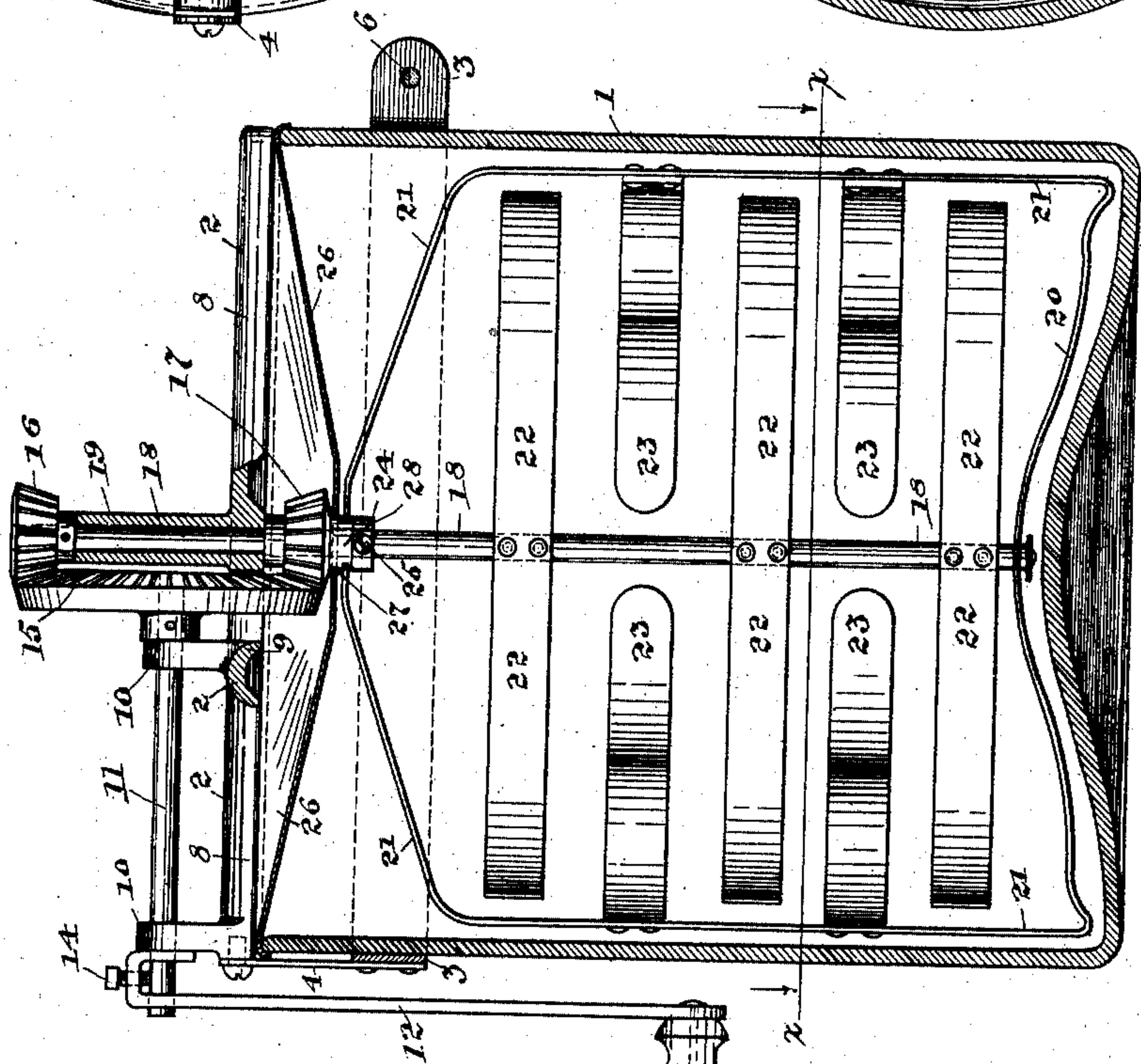


Fig. 1.

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UNITED STATES PATENT OFFICE.

LOUISE NELSON, OF CHICAGO, ILLINOIS.

CULINARY DEVICE.

No. 928,397.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed February 15, 1909. Serial No. 478,097.

To all whom it may concern:

Be it known that I, LOUISE NELSON, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented a certain new and useful Culinary Device, of which the following is a specification.

My invention relates to culinary devices, and more particularly to a device especially adapted for use in the making of bread, cake, or candy, and has for its object to provide a simple and inexpensive device designed to do this work in the most expeditious manner.

A further object of my invention is to provide a series of rotary mixing blades suitably arranged in a glass jar, and means for rotating said blades, and a further object is to provide a second series of rotary mixing blades arranged alternately with the first series of blades and adapted to revolve in the opposite direction on the same axis. And a further object is to so design the mixing blades that the ingredients of the mixture will become thoroughly intermingled to form a homogeneous mass.

Other objects will appear hereinafter.

With these objects in view my invention consists in such a novel construction and arrangement of parts all as will be hereinafter fully described and particularly pointed out in the appended claim.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a central vertical section, Fig. 2 is a top elevation, and Fig. 3 is a transverse section taken on the line $x-x$ of Fig. 1.

Referring now to the drawings 1 indicates a glass jar, and 2 a spider or frame detachably connected thereto by means of clamping band 3 surrounding the jar. Rectangular plates 4 are secured to the frame 2 and riveted to the band 3, this being the preferred construction, but it is clear that the band 3 may be formed integral with the frame 2. The ends of the band 3 are perforated and bent parallel to each other, and a bolt 6 and thumb-nut 7 are provided to secure said ends.

The frame 2 comprises four radially extending arms 8, a U-shaped portion 9, and vertically extending lugs 10 in which the driving shaft 11 is journaled. A crank 12 and a handle 13 are provided, said crank

being secured to the driving shaft 11 by means of the set-screw 14. Inclosed within the U-shaped portion 9 is a driving bevel-gear 15 which is securely pinned to the driving shaft 11, said gear meshing with the bevel pinions 16 and 17. Said pinions are arranged diametrically opposite on the gear 15, the pinion 16 being vertically over the pinion 17 and pinned to the vertical shaft 18 which is journaled in the sleeve 19 provided in the frame 2.

The shaft 18 extends nearly to the bottom of the jar 1 and passes through the bottom portion 20 of the blade-carrying-frame 21, the blades 22 being riveted to said shaft and the blades 23 to said frame. A collar 24 is secured to the shaft 18 by means of the screw 25, and the pinion 17 is loosely mounted on said shaft and rests on said collar, the frame 21 being rigidly secured to said pinion. Thus it is seen that the blades 22 and 23 are adapted to revolve in opposite directions about a common axis and that the same will move at a high speed relative to each other when the crank 12 is being turned comparatively slow. A peripherally flanged circular sheet metal jar cover 26 is provided with central perforation 27, so that the same may fit loosely over the hub 28 of the pinion 17, this provision being obviously to retain all of the liquid or other matter which is being mixed in the jar.

In order to prevent the lodgment of matter around the sides and bottom of the jar, the frame 21 is shaped to conform approximately to the same, as shown. The blades 22 and 23 are arranged alternately and are adapted to move in horizontal planes, each blade being compound curved in form.

While I have shown what I deem to be the preferable form of my invention, I do not wish to be limited thereto, as there might be slight changes made in the details of construction and arrangements of parts without departing from the spirit of my invention.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

In a device of the class described, a jar and a metallic frame mounted thereon comprising four radial arms and a U-shaped portion within which a driving beveled gear is arranged, said gear secured to the inner end of a shaft journaled in lugs provided in said frame, means for revolving said shaft,

vertically disposed rectangular plates connecting the ends of three of said arms with a clamping band provided to secure said frame to said jar, two bevel pinions in mesh
5 with said gear mounted on a vertical shaft journaled in a sleeve provided in said frame, one of said pinions being rigidly secured and the other loosely mounted on said vertical shaft, a frame having vertically disposed
10 sides connected to said loosely mounted pinion, a jar cover having a central perforation and a peripheral flange disposed

adjacent said last named pinion, and two series of compound curved mixing blades secured respectively to said vertical shaft 15 and said last named frame, substantially as and for the purposes specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUISE NELSON.

Witnesses:

JOSHUA R. H. POTTS,
HELEN F. LILLIS.