

H. F. FOWLES & J. A. FORSYTHE.

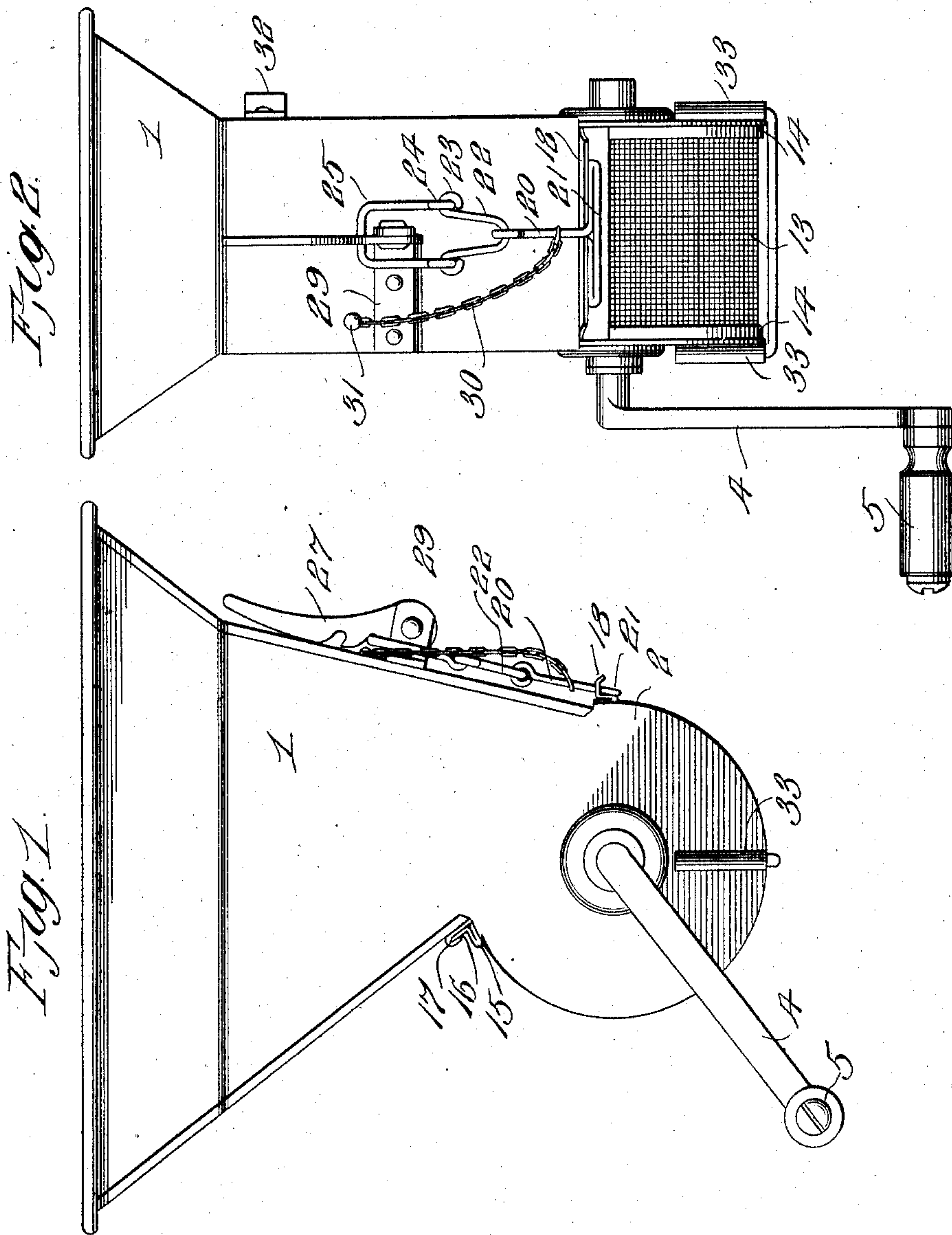
STRAINER.

APPLICATION FILED MAR. 13, 1908.

909,076.

Patented Jan. 5, 1909.

2 SHEETS—SHEET 1.



Witnesses

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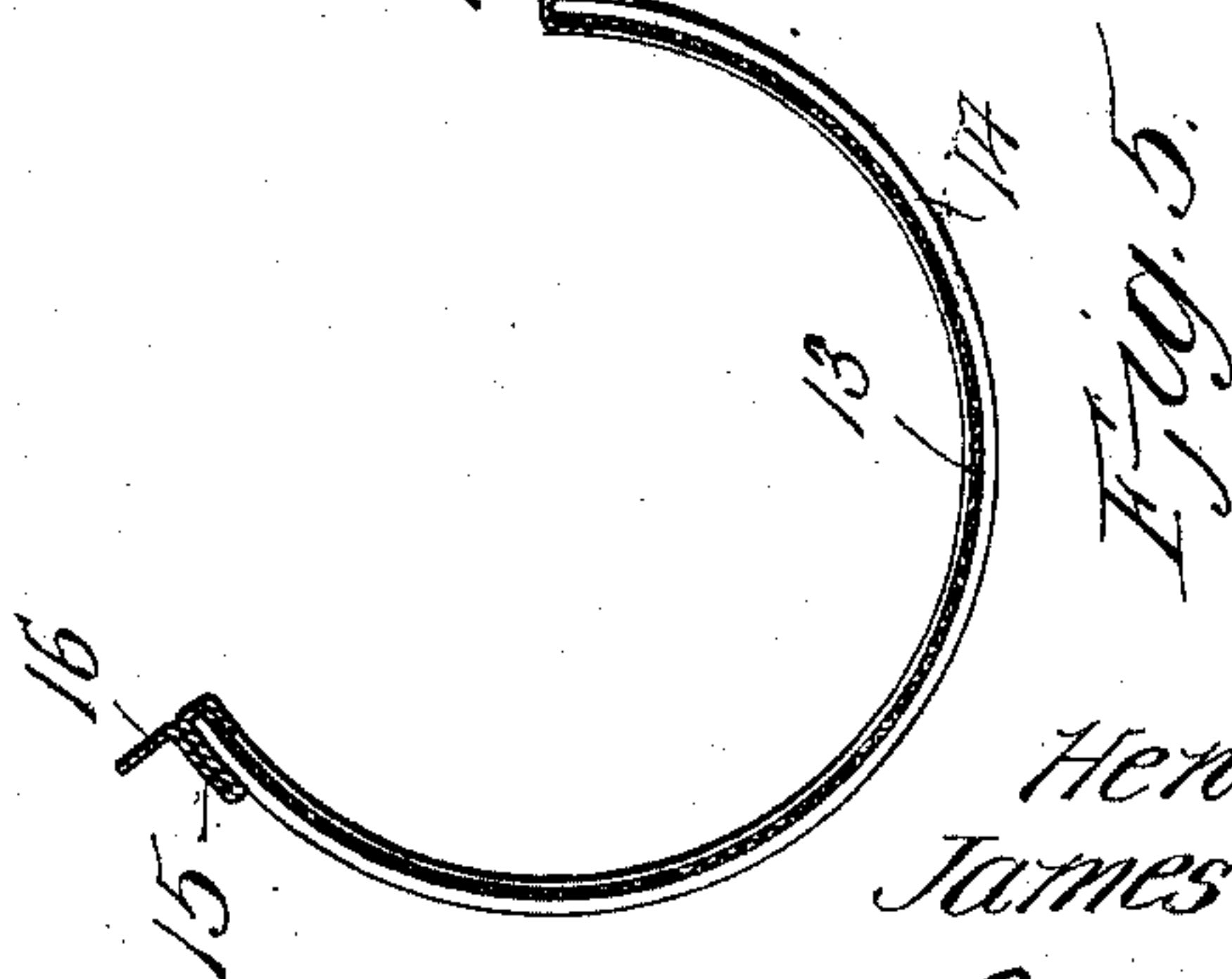
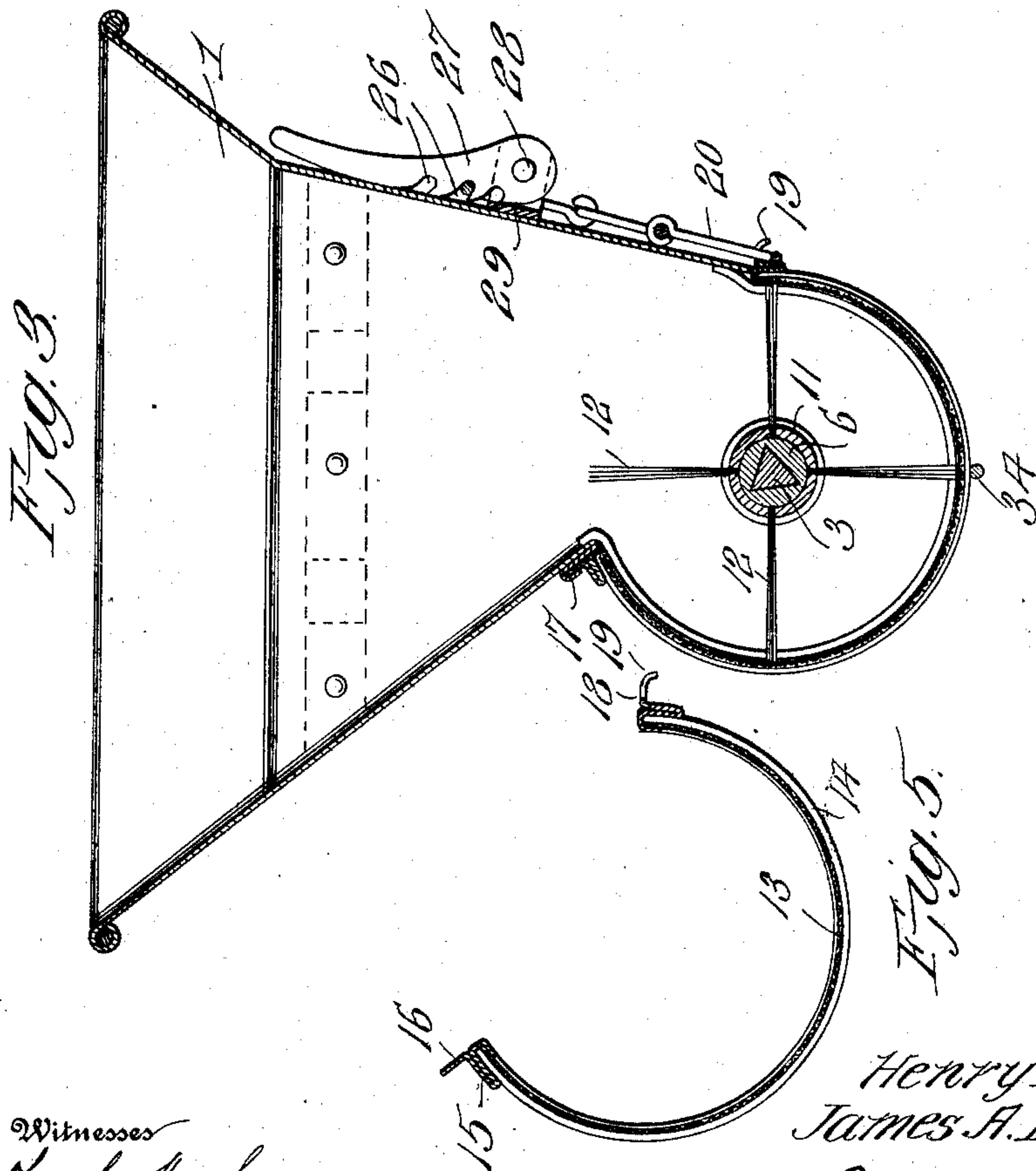
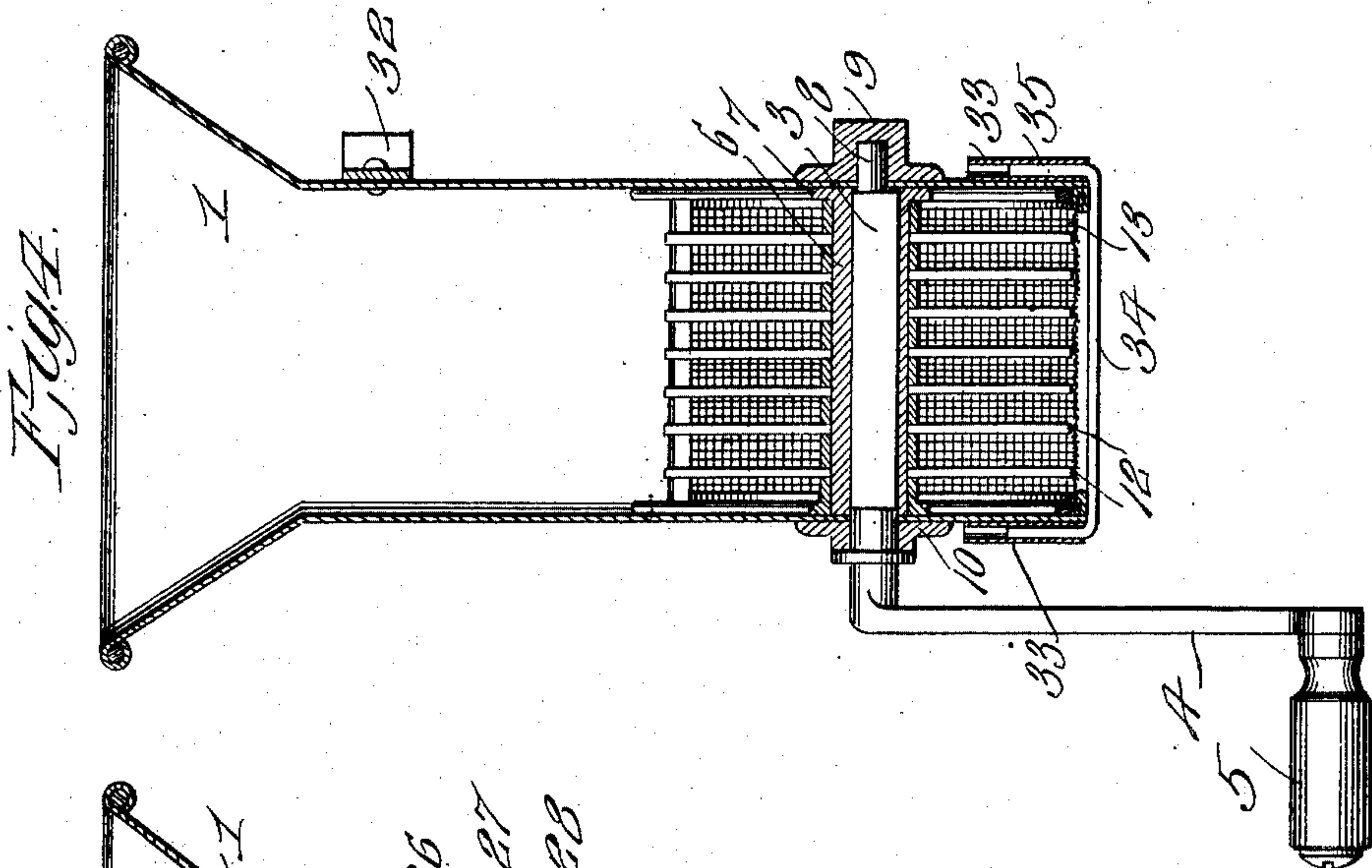
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2 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY F. FOWLES AND JAMES A. FORSYTHE, OF SPOKANE, WASHINGTON.

STRAINER.

No. 909,076.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed March 13, 1908. Serial No. 420,820.

To all whom it may concern:

Be it known that we, HENRY F. FOWLES and JAMES A. FORSYTHE, citizens of the United States of America, residing at Spokane, in the county of Spokane and State of Washington, have invented new and useful Improvements in Strainers, of which the following is a specification.

This invention relates to strainers, and one of the principal objects of the same is to provide a strainer which can be used for straining coarse or fine materials and which can be quickly adjusted for the various purposes desired.

Another object of the invention is to provide a strainer of simple construction in which the wire cloth strainers are detachable from the strainer body and which are of different degrees of fineness for various materials to be strained, means being provided for quickly attaching the strainers to the strainer body.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which,—

Figure 1 is a side elevation of a strainer made in accordance with our invention. Fig. 2 is a rear elevation of the same. Fig. 3 is a central vertical section from front to rear. Fig. 4 is a similar view taken at right angles to Fig. 3. Fig. 5 is an edge view of one of the strainer members.

Referring to the drawings for a more specific description of our invention, the numeral 1 designates the hopper-like casing for receiving the materials to be strained, the lower end of said casing being of partially circular formation, as at 2. Journaled in the portions 2 of the casing is a shaft 3 provided at one end with a crank arm 4 having a crank handle 5. The shaft 3, as shown, is of triangular cross section and is fitted within a tube or spool 6 having an opening through the same of triangular cross section, and the ends of the tube being provided with flanges 7. The outer end of the shaft 3 is reduced in size and of circular cross section, as at 8, and a cap 9 is fitted to the end 8 outside of the casing 1. A similar cap 10 is fitted upon the shaft 3 and bears against the opposite side of the casing 1. Mounted upon the tube 6 is a sleeve 11 provided with radially disposed elastic brushes, the purpose of which is to sweep the material against the meshes of the strainer member to force the same through the interstices.

The detachable strainer members each comprise a wire netting or foraminous strainer 13 of different degrees of fineness having metal binding portions 14. At one end the strainer member is provided with a doubled over portion 15 and an outwardly extending flange 16, the latter engaging a metal guide 17 secured to the casing 1. The opposite end of the strainer member is provided with a keeper 18 having a central notch or cut-away portion 19 to accommodate the shank 20 of a link provided with a T-head 21 which engages under the keeper 18. Connected to the link is a V-shaped member 22 provided with terminal eyes 23 which are connected to similar eyes 24 on a U-shaped take-up 25 designed to engage one of the notches 26 in a lever 27 pivoted at 28 to a bracket 29 secured to the casing. A chain 30 is secured to the casing at 31 and the opposite end of said chain being connected to the link 20.

A bracket 32 is secured to the casing 1, said bracket being of a form to engage suitable supporting means connected to a table or other support. Secured to the opposite sides of the casing 2 are tubular keepers 33, and a wire bail 34 is provided with upturned ends 35 inserted in the keeper 33 to assist in holding the strainer member in place.

The operation of our invention may be briefly described as follows: If potatoes, squash or pumpkin are to be strained the strainer member of the required mesh is selected and secured to the strainer by inserting the flange 16 in the keeper 17 and placing the T-head 21 under the curved flange 18. The U-shaped take-up 25 is then connected with the lever 27 by placing the cross bar of said take-up in one of the notches 26 in said lever and then swinging the latter upon its pivotal point 28 to the position shown in Fig. 3. In this condition the materials to be strained are placed in the casing, and the crank is rotated. The resilient brushes 12 sweep the material through the strainer member. Should other materials be required to be strained the strainer member is changed from a coarser to a finer mesh, as will be understood, and this can be quickly done.

From the foregoing it will be obvious that the strainer members of our device can be quickly cleaned owing to the fact that they are entirely removed from the device and every part of the strainer gotten at to clean the same.

Our device is of comparatively simple construction, can be operated quickly, and changes made from coarse to fine strainer members may be quickly made.

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

1. In a strainer, a series of detachable straining members, each being provided with an outwardly projecting flange at one end thereof designed to engage a guide or keeper on the strainer casing, a downwardly curved flange upon the opposite end of the strainer member, said flange having a central slot or notch, a T-headed link for engaging said flange, a take-up member connected to said link, and a notched lever for holding said take-up member in adjusted position.

2. In a strainer, a series of straining mem-

bers provided with means for detachable connection to the strainer body, said means 20 comprising a T-headed link, a V-shaped connection, and a U-shaped take-up, in combination with a take-up lever provided with a series of notches, said lever being pivoted to the casing and adapted to engage the cross 25 bar of the take-up device.

In testimony whereof we affix our signatures in presence of two witnesses.

HENRY F. FOWLES.

JAMES A. FORSYTHE.

Witnesses as to Henry F. Fowles:

QUINTIN JOHNSTONE,

MARGARET HICKS.

Witnesses as to James A. Forsythe:

ARCHIE MALCOME,

SAM T. JORDAN.