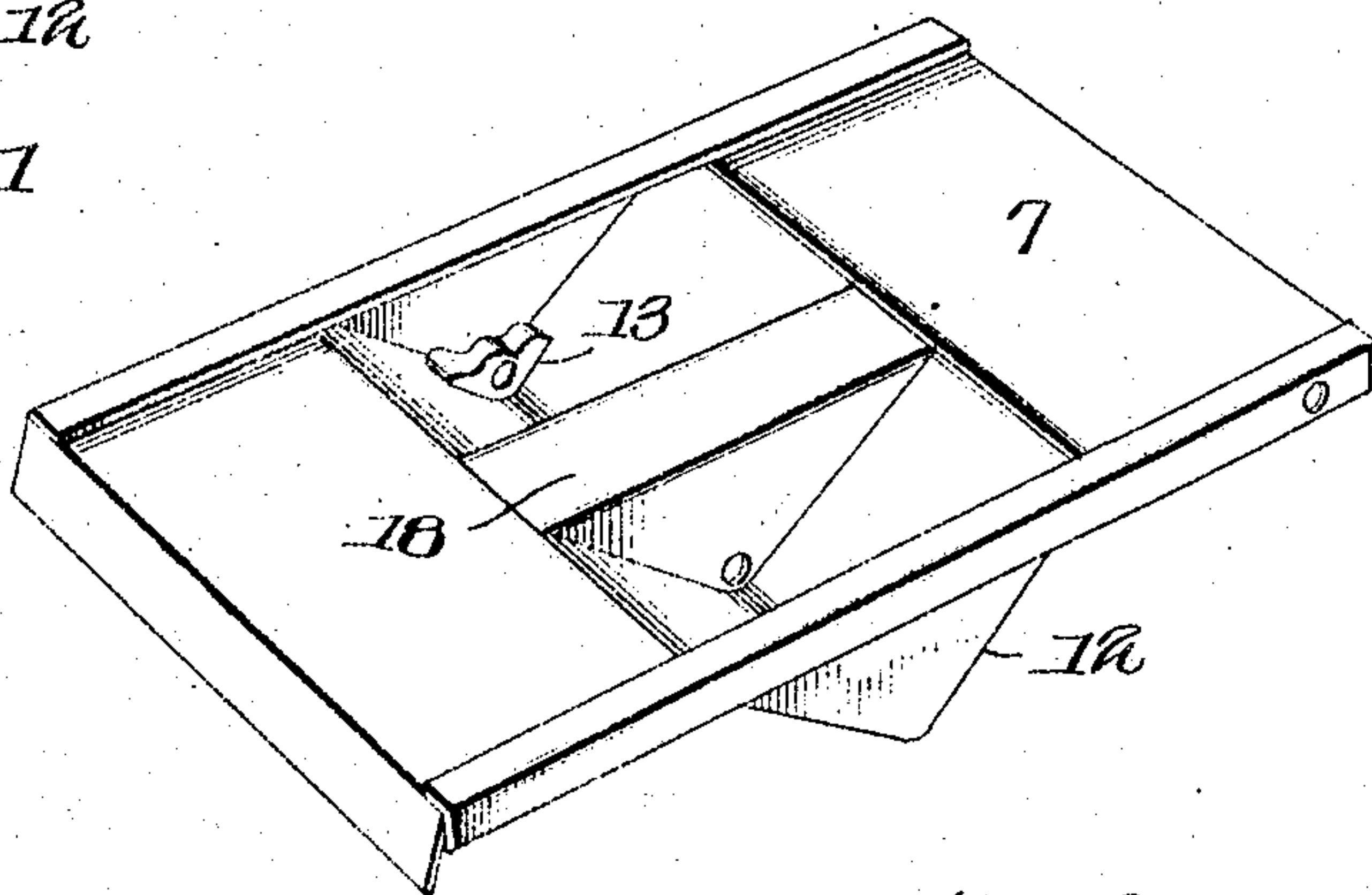
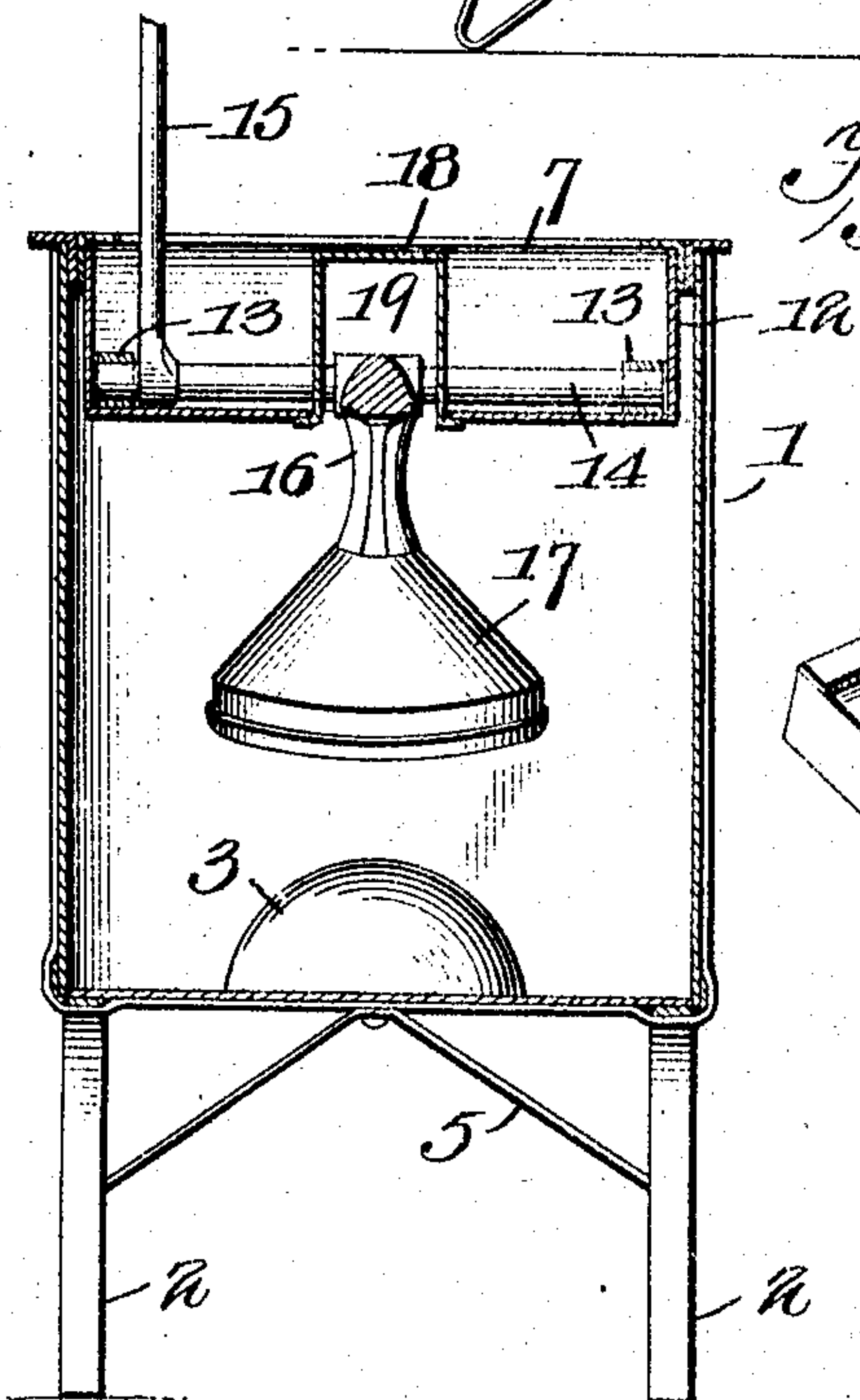
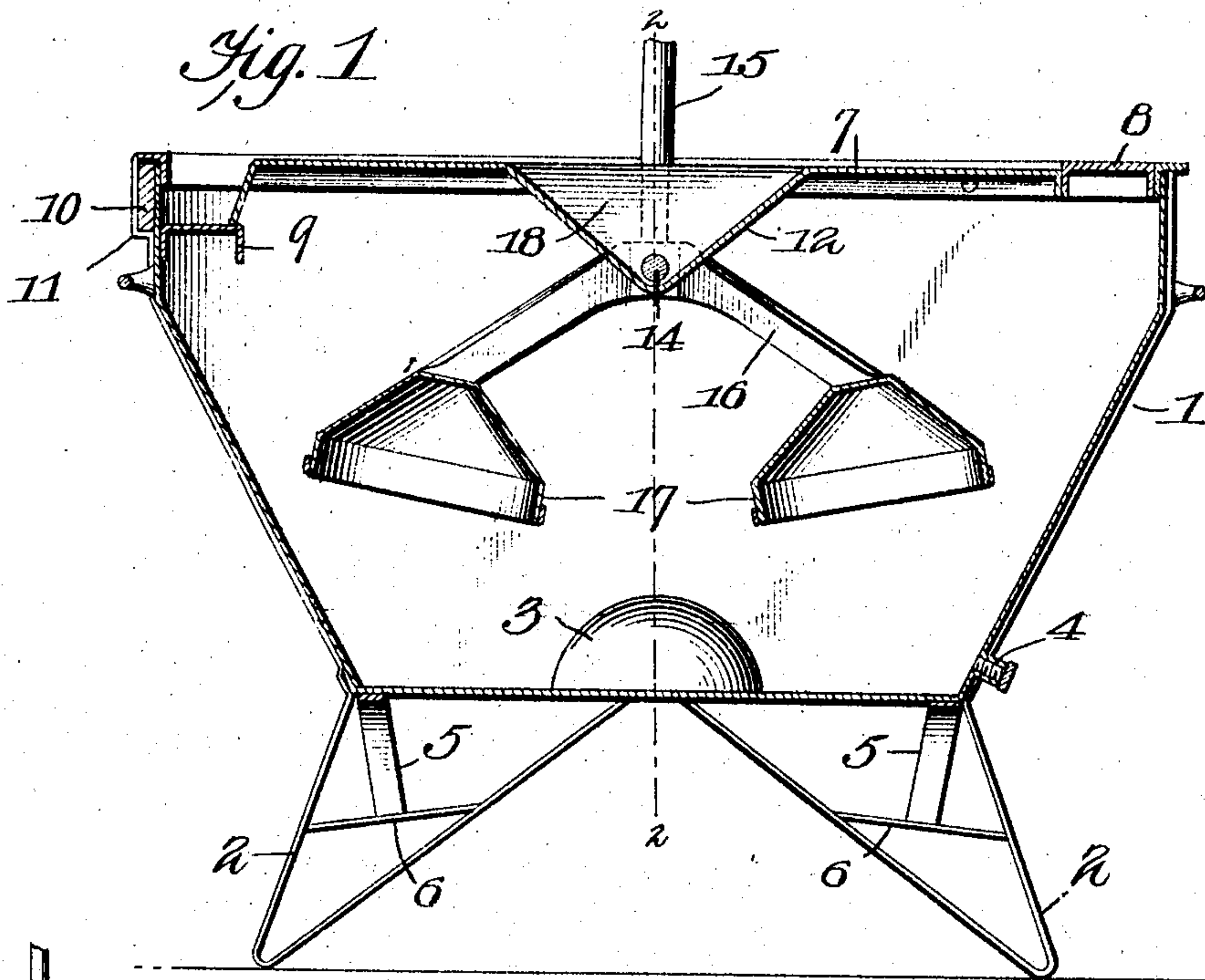


No. 773,101.

PATENTED OCT. 25, 1904.

E. RUE.
WASHING MACHINE.
APPLICATION FILED APR. 9, 1904.

NO MODEL.



Witnesses
E. F. Stewart
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UNITED STATES PATENT OFFICE.

EDWARD RUE, OF AMBOY, MINNESOTA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 773,101, dated October 25, 1904.

Application filed April 9, 1904. Serial No. 202,395. (No model.)

To all whom it may concern:

Be it known that I, EDWARD RUE, a citizen of the United States, residing at Amboy, in the county of Blue Earth and State of Minnesota, have invented a new and useful Washing-Machine, of which the following is a specification.

My invention relates to washing-machines, and has for its objects to produce a simple inexpensive device of this character which in practice will force the water and suds back and forth through the fabric, thereby thoroughly cleansing and bleaching the latter, and one in which the rock-shaft and its bearings, and particularly the latter, will be protected from breakage or from damage by the hot water and steam.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a vertical longitudinal sectional elevation of a washing-machine embodying my invention. Fig. 2 is a detail transverse section on the line 2 2 of Fig. 1. Fig. 3 is a detail perspective view of the cover.

Referring to the drawings, 1 designates the body of the machine, preferably composed of galvanized sheet metal and in the form of a tank or reservoir sustained by legs 2, formed from strap metal, there being provided upon the inner face of the bottom of the tank a centrally-disposed substantially semispherical protuberance or abutment 3, the function of which will hereinafter appear, while through one of the end walls there is formed a discharge opening or port 4. Attention is directed to the fact that the legs 2 are disposed in pairs at opposite longitudinal sides of the tank and that each pair of legs is produced from a single length of metal bent to shape, the legs being further connected and braced in pairs by primary braces 5, attached centrally beneath and extending transversely of the tank-bottom and having their ends permanently fixed to supplemental braces 6, in turn attached to and extending between the opposite members of the respective legs. Pivoted within and adjacent to one end of the upper open side or mouth of the tank is a lid or cover 7, having between its rear or

pivoted end and the adjacent end wall of the tank a fixed portion or section 8, provided with a depending flange, against which the adjacent and similarly-flanged end of the cover bears, there being disposed at the forward end of the cover a similar portion or section 9, arranged in a plane beneath the plane of the top of the tank and affording a seat for the adjacent flanged end of the cover and at the same time a space or recess for the accommodation of the bearing or attaching members of a wringing device, the clamping-screws of which may bite into a strip of wood 10, attached for this purpose upon the outer face of the tank by means of sheet-metal straps 11. The cover has formed therein at its longitudinal center and extending transversely thereacross a substantially V-shaped depression 12, into which and upon the upper face of the cover is seated bearings 13 for a transversely-extending rock-shaft 14, adjacent to one end of which is fixed an operating-handle or lever 15, the central portion of the shaft being square or of other non-circular form for the reception of a bell-crank-supporting member 16, the arms of which converge downwardly and carry, respectively, at their outer ends washing members or pounders 17. These pounders are in form of truncated conical sheet-metal members or cups having at their lower ends depending portions or flanges which contact with the fabric under treatment, attention being directed to the fact that upon the downstroke of the members air will be compressed thereby and forced through the fabric, while upon the upstroke a suction will be created for drawing the water and suds through the fabric, thereby thoroughly and rapidly cleansing and bleaching the latter. Disposed at the transverse center of the cover directly over the bell-crank 16 and centrally dividing the depression 12 is a hollow partition 18 of substantially U shape in cross-section formed from sheet metal and extended longitudinally of the cover, thus producing on the interior of the latter through the depression 12 a space or recess 19, designed to accommodate the arms of the member 16 during operation of the machine. It is to be noted that the

greater portion of the shaft, together with its bearings, is under this construction protected from the action of hot water or steam and also from liability of breakage in shipment, and, furthermore, that the walls of the depression in which the operating-lever works serve to limit the latter in its movements to accord with the full movement of the supporting member 16. Attention is further directed to the fact that the central protuberance 3 prevents shifting of the fabric in the tub when acted upon by the pounders, thereby permitting the latter to bear upon and compress the fabric.

From the foregoing it is apparent that I produce a simple, inexpensive device, which will be strong and durable and efficiently perform its functions, it being understood, however, that minor changes in the details herein set forth may be resorted to without departing from the spirit of the invention.

Having thus described the invention, what is claimed is—

1. In a washing-machine, the combination with a tank, of a cover therefor provided with a depression, a hollow partition dividing the depression and presenting upon the inner face of the cover a space or recess,

bearings seated upon the outer face of the cover within the depression, a shaft also seated in said depression and journaled in the bearings, a supporting member carried by the shaft upon the inner face of the cover and beneath the hollow partition, and washing members connected with the supporting member.

2. In a washing-machine, the combination with a tank, of a cover therefor provided with a depression, bearings seated upon the outer face of the cover within the depression, a shaft journaled in the bearings, a supporting member fixed for movement with the shaft, washing members connected with the supporting member, and an operating-lever fixed upon the shaft upon the outer face of the cover and within the depression, whereby the walls of the latter serve to limit the movement of the operating-lever to accord with the proper movement of the supporting member.

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

EDWARD RUE.

Witnesses:

M. S. OLSEN,

FLOYD. E. WILDER.