

E. CHARPENTIER.

MOP WRINGER.

APPLICATION FILED JULY 19, 1909.

955,944.

Patented Apr. 26, 1910.

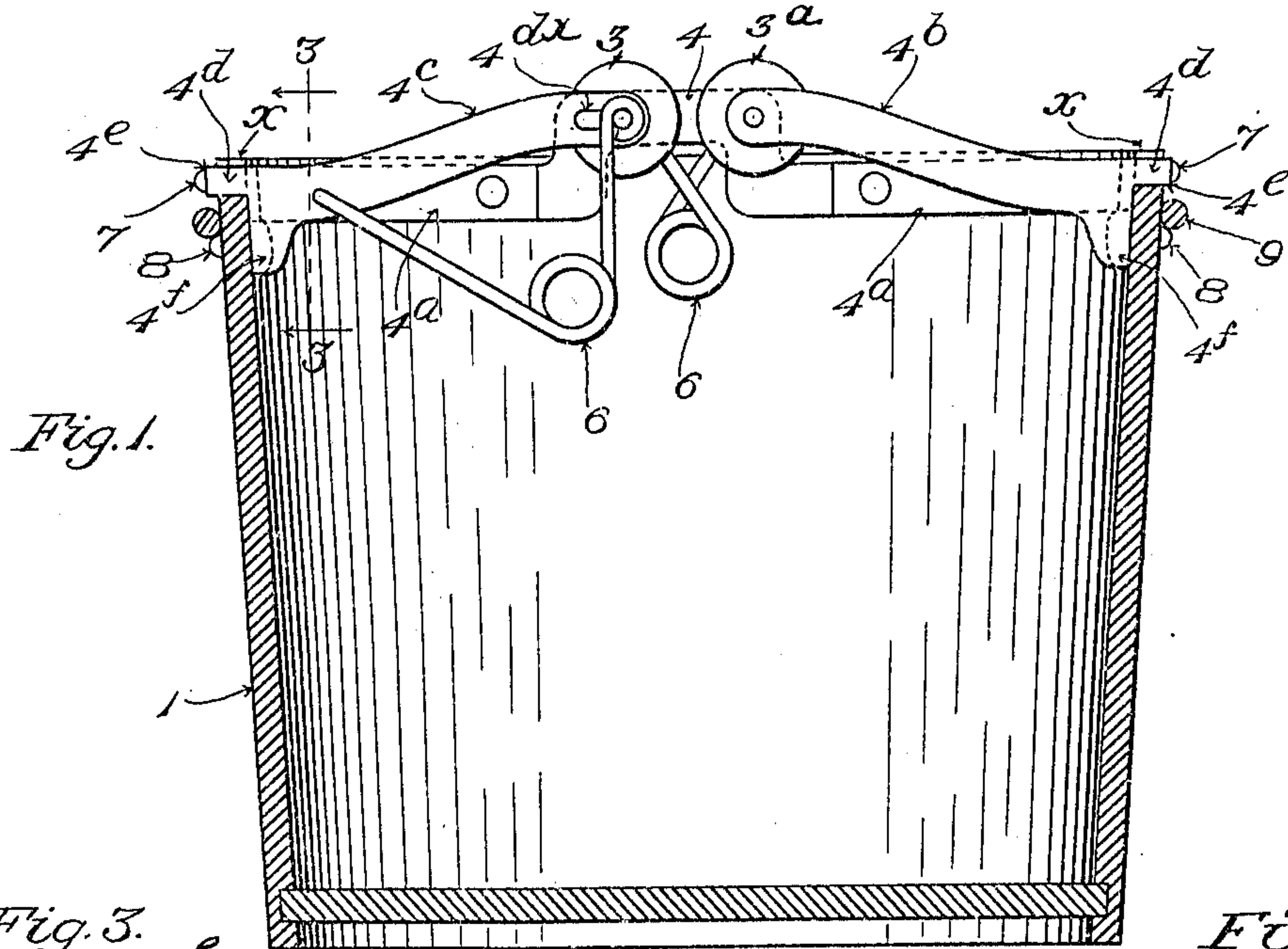


Fig. 1.

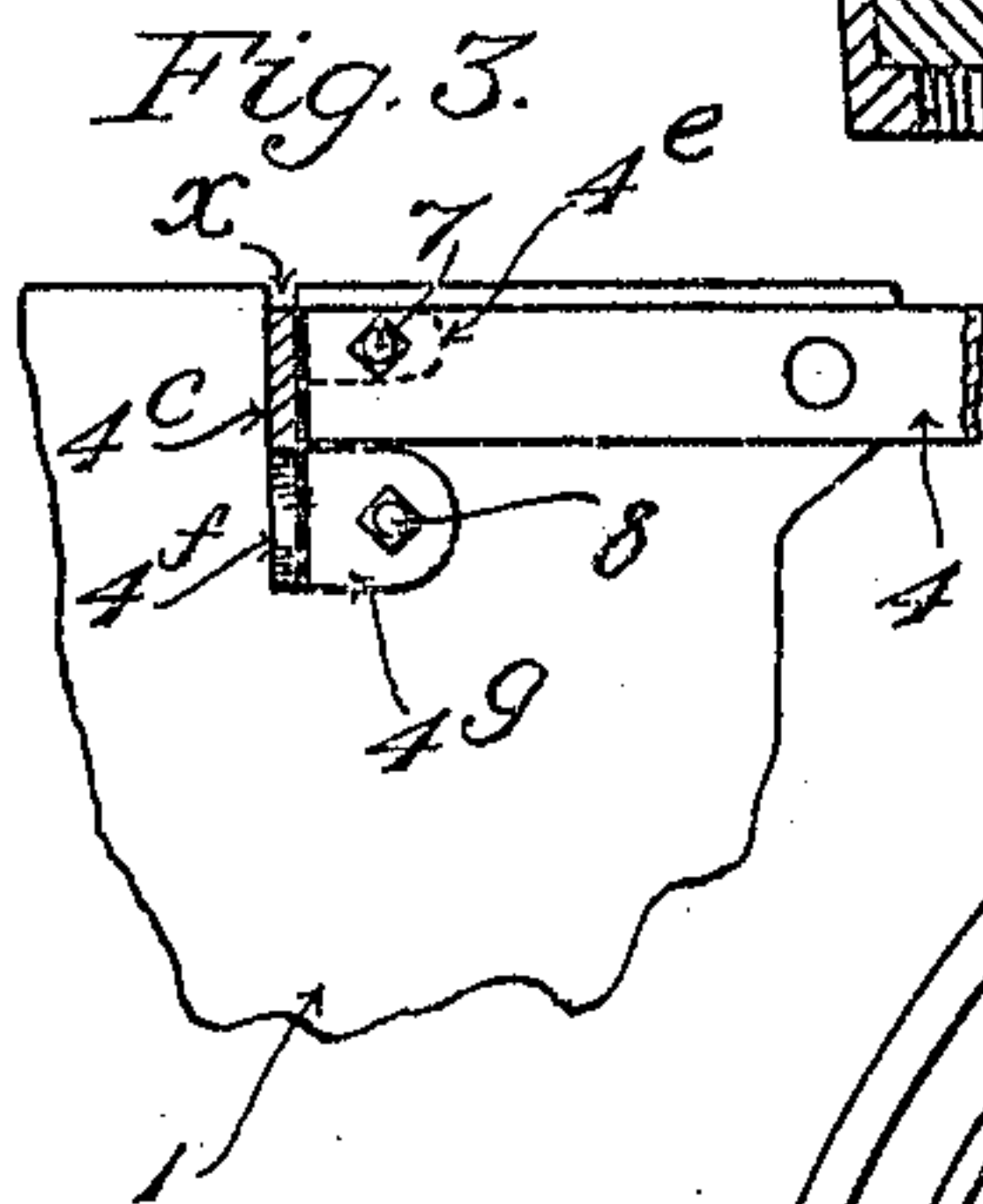


Fig. 3.

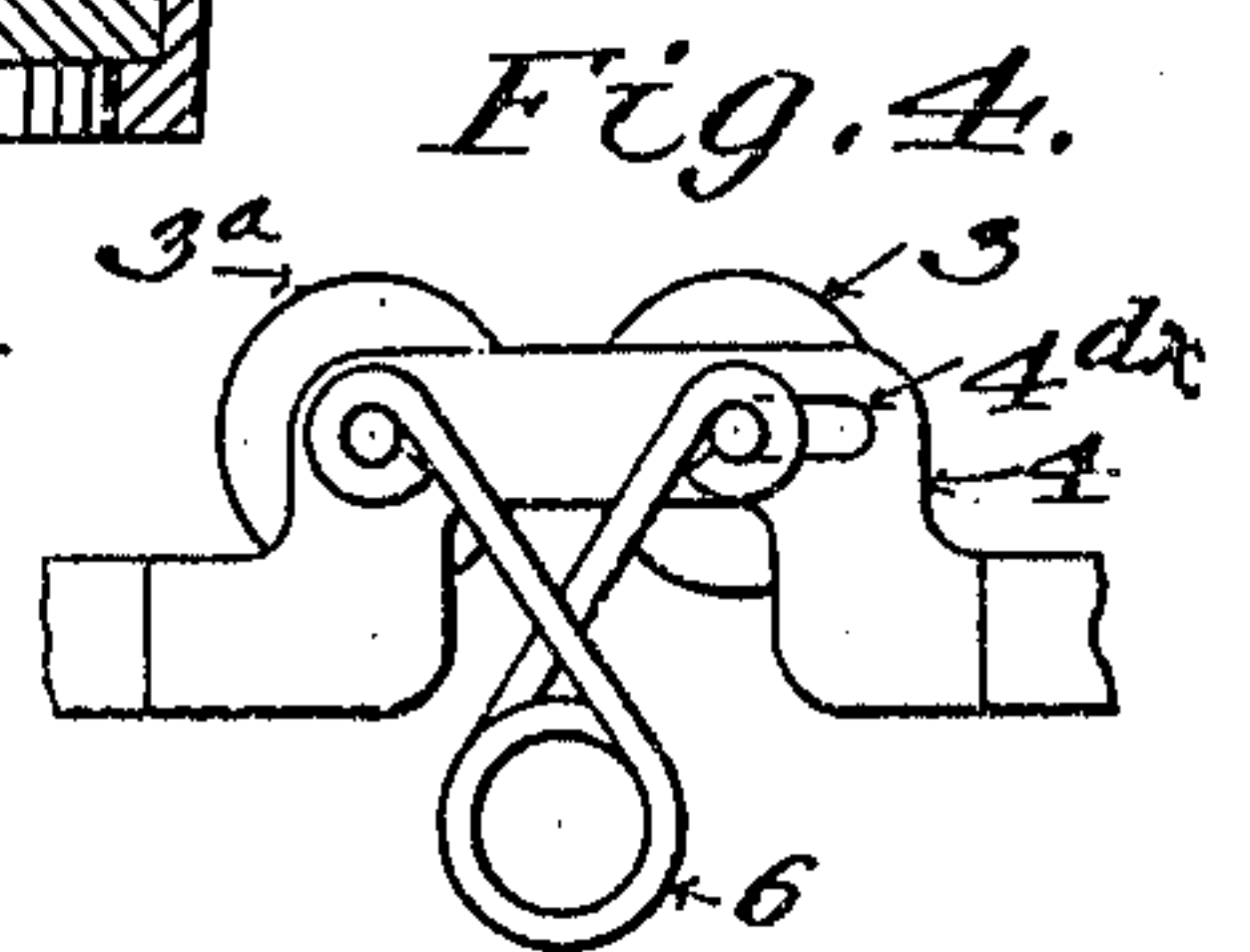


Fig. 4.

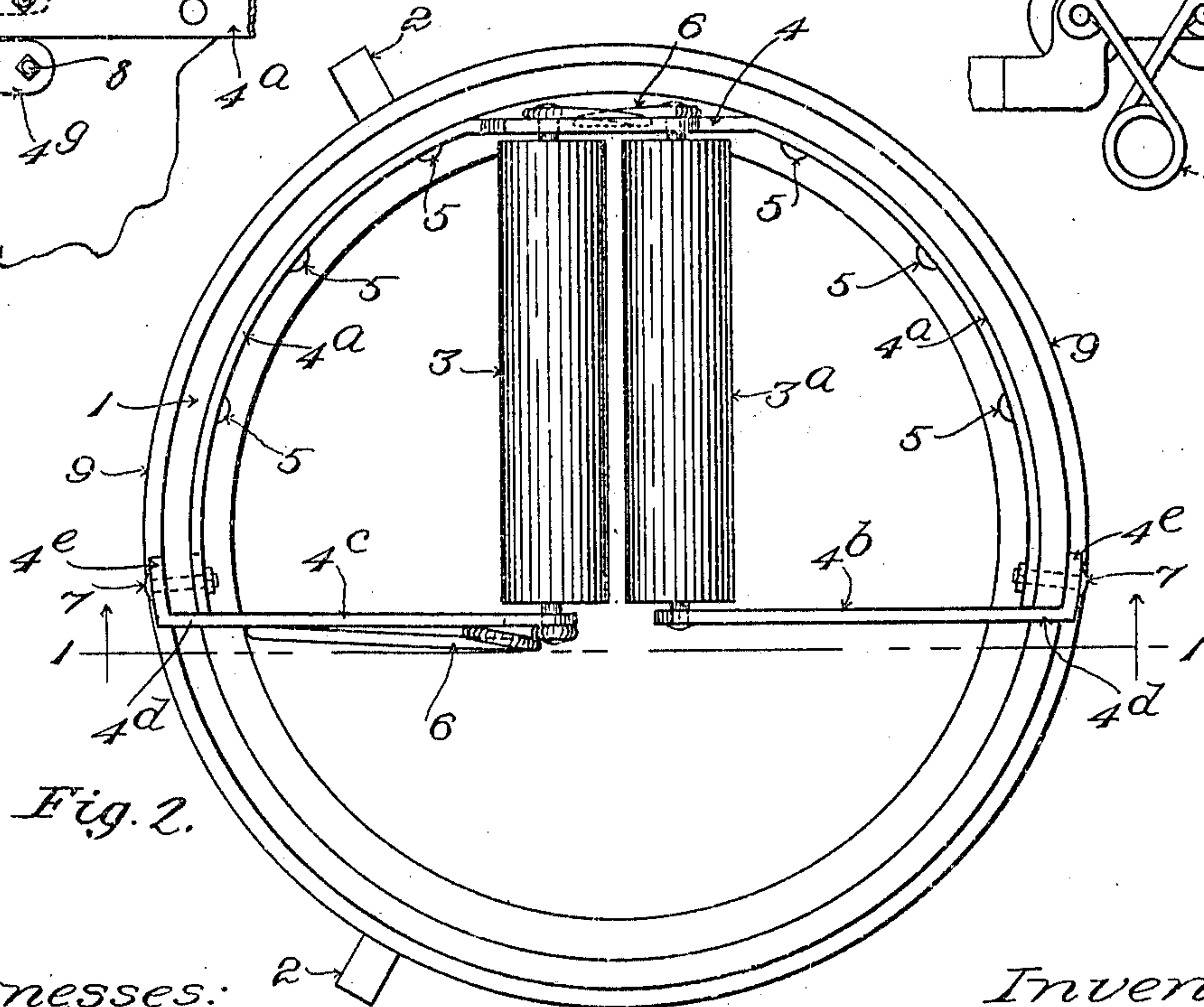


Fig. 2.

Witnesses:
Oscar F. Hill
Edith J. Anderson.

Inventor:
Edouard Charpentier
by Chas. F. Randall
Attorney.

UNITED STATES PATENT OFFICE.

EDOUARD CHARPENTIER, OF NASHUA, NEW HAMPSHIRE, ASSIGNOR TO LACONIA MOP-PAIL AND WRINGER COMPANY, INCORPORATED, OF LACONIA, NEW HAMPSHIRE.

MOP-WRINGER.

955,944.

Specification of Letters Patent.

Patented Apr. 26, 1910.

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To all whom it may concern:

Be it known that I, EDOUARD CHARPENTIER, a citizen of the United States, residing at Nashua, in the county of Hillsboro, State of New Hampshire, have invented a certain new and useful Improvement in Mop-Wringers, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to mop-wringer attachments for pails of the class in which two wringing rolls are supported within a pail in such manner that a mop may be introduced sidewise between such rolls at one end of the pair and then drawn upward between the two rolls.

The invention consists in improvements in the roll-supports and in the means and manner of their combination with a pail. Also, in provisions for preventing spreading of the pail.

The general object of the invention is to obviate tendency of the pail to spring or spread at its top so as to permit the rolls to spread more at one end than at the other.

The invention is shown in the drawings, in which—

Figure 1 is a view in vertical section on line 1, 1, of Fig. 2, of a pail having applied thereto a mop-wringer attachment embodying the invention. Fig. 2 is a plan view of the pail and attachment. Fig. 3 is a detail view in section on line 3, 3, of Fig. 1. Fig. 4 is a detail view of cross-bar 4, the adjacent ends of the rolls, and the spring 6.

The pail is marked 1, and 2, 2, are the foot-rests with which it is furnished at its exterior, at the bottom, to receive the pressure of one's feet to hold the pail stationary while using the wringer attachment to wring a mop.

3, 3^a, are the wringer-rolls. The support for the outer ends of the said rolls consists of a cross-bar 4 having a round bearing for the journal at one end of roll 3^a and an elongated slot 4^{ax} receiving the corresponding journal of roll 3, the said cross-bar having also curved side-arms 4^a, 4^a, fitting inside the pail near its top and secured thereto by rivets 5, 5, etc.

The inner ends of the rolls are supported by inwardly projecting arms 4^b, 4^c, the former having a round bearing for the other journal of the roll 3^a and the latter having a slot 4^{ax} for the reception of the other jour-

nal of roll 3. Cross-bar 4 and arms 4^b, 4^c, are arched, as shown, to elevate the rolls partly above the top edge of the pail. In use, the mop is passed sidewise between the inner ends of the arms 4^b, 4^c, in between the two rolls, as usual. The slots of cross-bar 4 and arm 4^c allow the roll 3 to move toward and from the roll 3^a, and it is pressed toward the latter by springs 6, 6. The arms 4^b, 4^c, are furnished with outward extensions 4^d, 4^d, extending outward beyond the curved side-arms 4^a, 4^a, and occupying slits *x*, Fig. 3, that are made in the edge of the pail, the said extensions having bent portions 4^e, 4^e, fitting against the exterior of the pail. Bolts 7, 7, pass through the ends of the respective curved side-arms 4^a, 4^a, the pail itself, and the bent portions 4^e, 4^e, of extensions 4^d, 4^d, of arms 4^b, 4^c, and clamp the different parts of the frame securely to the top of the pail, both inside and outside. At the inside of the pail, the arms 4^b, 4^c, are furnished with downward projections 4^f, 4^f, having lateral lugs 4^g, such projections and their lugs fitting against the inner surface of the pail, and bolts 8, 8, passing through the lugs and the side of the pail serve as additional means of securing the arms 4^b, 4^c, against looseness and play. A wire ring 9 fits tightly upon the exterior of the pail at the top of the latter, and assists in preventing the pail from springing when the mop is inserted between the rolls and drawn upward.

What is claimed is:—

1. The combination with a pail, and the wringer-rolls, the cross-bar 4 supporting the outer ends of the said rolls and having the curved side-arms 4^a, 4^a, fitting the top of the pail and secured by fastenings thereto, the inwardly-projecting arms 4^b, 4^c, supporting the inner ends of the rolls, and having the extensions engaging with the top of the pail, such extensions having the laterally-bent portions fitting against the exterior of the pail, the said arms 4^b, 4^c, also having the downward projections 4^f with lateral lugs 4^g, fastenings passing through the ends of the curved side-arms, the pail, and the external laterally-bent portions, fastenings passing through the said lugs and the pail, and springs which press the rolls together.

2. The combination with a pail having vertical slits in its sides, at the top, and the wringer-rolls, the cross-bar 4 supporting the outer ends of the said rolls and having the

curved side-arms 4^a, 4^a, fitting the top of the
pail and secured by fastenings thereto, the
inwardly-projecting arms 4^b, 4^c, supporting
the inner ends of the rolls, and having the
5 extensions occupying the said vertical slits
in the top of the pail, such extensions having
the laterally-bent portions fitting against the
exterior of the pail, the said arms 4^b, 4^c,
also having the downward projections 4^f
10 with lateral lugs 4^g, fastenings passing
through the ends of the curved side-arms, the

pail, and the external laterally-bent por-
tions, fastenings passing through the said
lugs and the pail, springs which press the
rolls together, and the ring 8 fitting tightly 15
upon the exterior of the pail at the top.

In testimony whereof I affix my signature
in presence of two witnesses.

EDOUARD CHARPENTIER.

Witnesses:

CHAS. F. RANDALL,

EDITH J. ANDERSON.