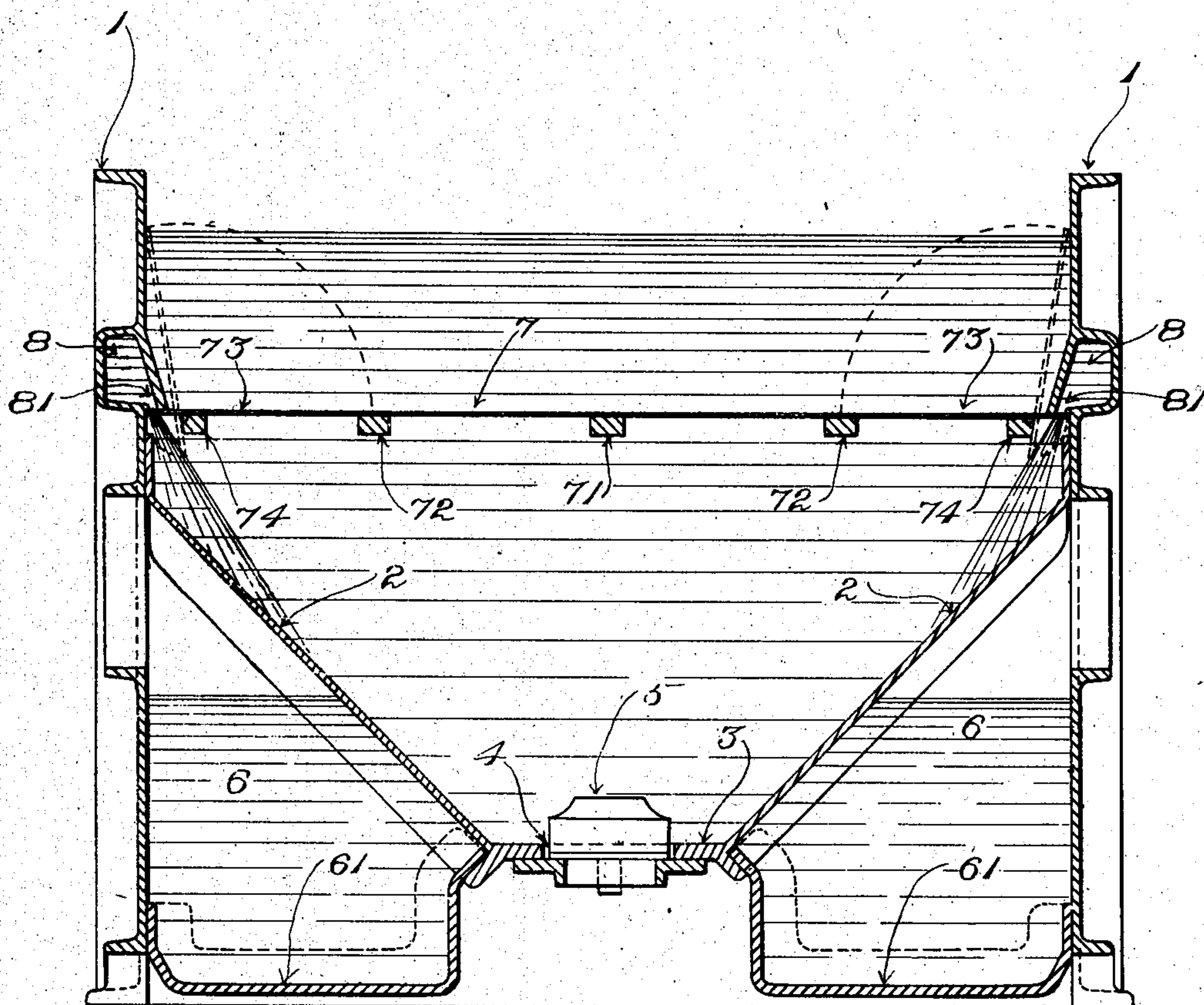


No. 838,998.

PATENTED DEC. 18, 1906.

J. D. HUNTER.  
WOOL WASHING MACHINE.  
APPLICATION FILED AUG. 23, 1906.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

JAMES D. HUNTER, OF NORTH ADAMS, MASSACHUSETTS.

## WOOL-WASHING MACHINE.

No. 838,998.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed August 23, 1906. Serial No. 331,752.

*To all whom it may concern:*

Be it known that I, JAMES D. HUNTER, a citizen of the United States, residing at North Adams, in the county of Berkshire, State of Massachusetts, have invented a certain new and useful Improvement in Wool-Washing Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in a novel arrangement of the settling-tank for the liquid which is expressed from the wool by the squeeze-rolls, in a novel construction of the perforated false bottom of the main bowl or tank, and in novel provisions for flushing the main bowl or tank for the purpose of cleaning out sediment, &c.

The invention is illustrated in the drawing, which shows in vertical transverse section the bowl or tank of a wool-washing machine with my improvements applied thereto.

Having reference to the drawing, at 1 1 are shown the opposite side walls of the main bowl or tank, at 2 2 the opposite-inclined longitudinally-extending side portions of its bottom, and at 3 the horizontal middle portion of the latter also extending in the direction of the length of the bowl. At 4 is an opening in the said middle portion for the discharge of the contents of the bowl, and at 5 a valve or closure for the said opening.

In conformity with the first feature of the invention one or both of the interior spaces 6 6 within the side walls 1 1 beneath the inclined side portions 2 2 of the lower portion of the bowl or tank are utilized for settling-tanks for the liquor which is expressed by the squeeze-rolls (not shown) from the wool as it is fed out of the bowl or tank. As usual in practice, the said liquor falls into a collecting-trough (not shown) and passes from the latter to the settling tank or tanks, from which it is pumped into the bowl again. The settling-tanks are formed in the present instance by securing the bottom pieces 61 61 in place between the depressed lower part of the bowl and the side walls 1 1, and the upper portions of the side walls of the settling-tanks are constituted of the side walls 1 1 and the inclined portions 2 2. The settling-tanks extend longitudinally of the bowl or tank within the inclosure of side walls 1 1.

In practice I may employ either one or two settling-tanks, as found preferable or necessary. The described location and arrange-

ment of settling-tank secure greater economy of floor-space than where a settling-tank is located at one side of the bowl externally of the latter and permit the same to be made of any desired length up to approximately that of the bowl, and thus of the required capacity.

At 7 is the perforated false bottom of the wool-containing space of the bowl. Heretofore this false bottom has been composed of transversely-extending sections of perforated metal, each corresponding in length with the width of the interior space of the bowl and about eighteen inches wide. For the purpose of cleaning the bowl it has been necessary to remove these sections bodily in order to give access to the portion of the bowl below the perforated bottom. In conformity with the present invention the perforated bottom is formed of an intermediate longitudinal section, which is supported upon girths 71 72 72, and separately-movable side sections 73 73, which are hinged to the girths 74 74, so as to be capable of occupying normally the full-line positions and of being raised into the dotted-line positions to afford access to the lower portion of the bowl. In the lowered position of the side sections their inner edge portions rest upon the girths 72 72.

Perforated pipes for discharging water upon the lower surfaces of the bowl of a wool-washing machine for flushing purposes have been located heretofore below the perforated bottom. In such location sediment collects upon them and they interfere more or less with access to all portions of the interior surfaces.

One feature of the invention consists in locating pipes or passages for the discharge of water for flushing and cleansing purposes above the perforated bottom, and another feature thereof consists in providing passages for the said purpose by casting or otherwise forming them in the side walls of the bowl or tank. Thus at 8 8 are water-passages extending lengthwise of the bowl formed within the side walls 1 1 and intended to have in practice communication with a suitable source of supply. At 81 81 are discharge-orifices directed downward toward the inclined side portions 2 2. When it is desired to flush the said side portions, the movable side sections 73 73 of the perforated bottom are turned into their dotted-line po-



sitions, so that their outer edge portions, which normally rest against the said orifices so as to prevent wool from lodging therein, shall be moved out of the path of the dis-  
5 charging water.

I claim as my invention—

1. In a wool-washing machine, the bowl with longitudinally-extending laterally-in-  
10 clined bottom portion, and having under-  
neath the latter the internal settling-trough also extending longitudinally.

2. In a wool-washing machine, the combination with the side wall 1 and the longi-  
15 tudinally-extending laterally-inclined bottom  
portion 2, of the bottom piece 61 forming with the said side wall and bottom portion a longitudinally-extending internal settling-  
chamber beneath the bowl.

3. In a wool-washing machine, the bowl  
20 having the perforated false bottom, and hav-  
ing a flushing appliance located above the said bottom and extending lengthwise of the bowl.

4. In a wool-washing machine, the bowl  
25 having the side wall formed with the internal  
passage for water for flushing purposes, and with the discharge-orifices.

5. In a wool-washing machine, the combi-  
30 nation with the bowl, of a perforated false  
bottom having a lateral section thereof which is separately movable to give access to the lower portion of the bowl.

6. In a wool-washing machine, the combi-  
35 nation with the bowl, of a perforated false  
bottom having a hinged section adapted to

be turned up to give access to the lower por-  
tion of the bowl.

7. In a wool-washing machine, the combi-  
nation with the bowl, of a perforated false  
bottom having a longitudinally-extending 40  
side section which is separately movable to  
give access to the lower portion of the bowl.

8. In a wool-washing machine, the combi-  
nation with the bowl, of a perforated false  
bottom having a longitudinally-extending 45  
side section.

9. In a wool-washing machine, the combi-  
nation with the bowl, of a perforated false  
bottom having opposite longitudinally-ex-  
tending hinged side sections. 50

10. In a wool-washing machine, the combi-  
nation with the bowl having a water-passage  
with discharge-orifices for flushing purposes,  
of the perforated false bottom having the  
separately-movable side section beneath the 55  
said discharge-orifices and preventing lodg-  
ment of fibrous material therein.

11. In a wool-washing machine, the combi-  
nation with the bowl having a water-passage  
with discharge-orifices for flushing purposes, 60  
of the hinged perforated bottom section  
closing upwardly against the said discharge-  
orifices.

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

JAMES D. HUNTER.

Witnesses:

A. D. CADY,  
GEO. C. HADLEY.