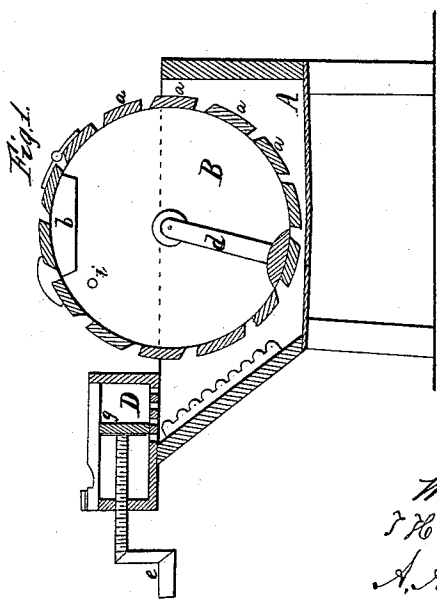
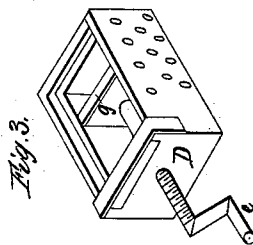
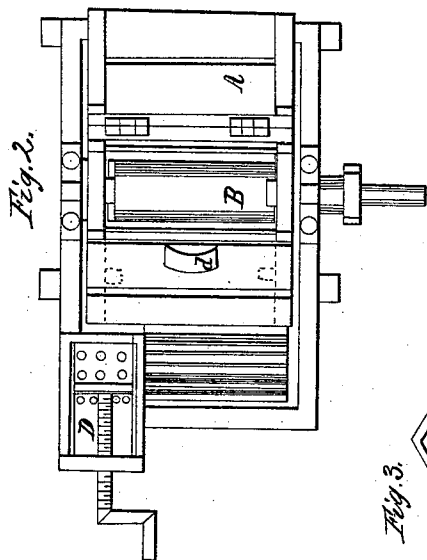


A. B. Harlan,

Washing Machine,

No 29,165,

Patented July 17, 1860.



Witnesses,
J. H. Alexander
A. A. Geatman

Inventor,
Amos B. Harlan

UNITED STATES PATENT OFFICE.

AMOS B. HARLAN, OF ERCILDOUN, PENNSYLVANIA.

WASHING-MACHINE.

Specification of Letters Patent No. 29,165, dated July 17, 1860.

To all whom it may concern:

Be it known that I, AMOS B. HARLAN, of
Ercildoun, in the county of Chester and
State of Pennsylvania, have invented certain
5 new and useful Improvements in Washing-
Machines; and I do hereby declare the fol-
lowing to be a full, clear, and exact descrip-
tion of the same, reference being had to the
accompanying drawings, and the letters of
10 reference marked thereon, in which—

Figure (1) is a sectional view, Fig. (2) a
plan view, and Fig. (3) a perspective of the
rinsing or pressing apparatus.

The nature of my invention consists in the
15 combination and arrangement of such de-
vices as will be hereinafter fully set forth.

To enable others skilled in the art to make
and use my invention, I will now describe
its construction and operation.

20 (A) represents the box, (B) a slated
wheel stationary upon a shaft, which is lo-
cated near the center of the box. On the
end of said shaft is placed a crank, by means
of which the wheel (B) is revolved.

25 (*a a*) represent beveled slats nailed or
otherwise secured around the periphery of
wheel (B). It should be observed that the
slats are all beveled the same way, as fully
shown in the drawings, Fig. (1). Thus in
30 the revolution of the wheel, more water is
taken in between the slats, and also more
discharged, than when arranged in almost
any other way. I do not however claim the
beveled slats as my invention, as they have
35 been in use before.

(*b*) is a hinged door provided on the cir-
cumference of the wheel (B) as seen in
Fig. (1).

40 (*d*) represents a swinging beater, which
consists of a moderately heavy piece of tim-
ber, with an upright secured at each end.
The beater or frame thus constructed, is
loosely pivoted to each side, and in the center
of wheel (B) as shown in Fig. (1). The ob-
45 ject of this beater is to fall against the cloth-
ing, when being washed, and more effectually
cleanse them from all dirt, by the agitation
which it creates when the wheel (B) is
in motion.

(*i i*) represent two pins placed upon the 50
inner sides of wheel (B) for the purpose of
preventing the beater (*d*) from being car-
ried around by the articles in the wheel, and
thus cause it to fall back heavily against the
clothing.

(D) represents a box, which is hinged 55
at one end of the washing machine. Said
box is provided with a sliding top, and with
perforated holes in the side, over the ma-
chine, for the purpose of allowing the water 60
to pass back again into the machine.

(*e*) is a screw with a crank turned upon
one end. Said screw passes through one end
of box (D), and is secured to the follower
(*g*) as fully seen in the drawings. Thus 65
may the articles washed be most effectually
rinsed, and with no damage whatever.

In operating my machine, I first place a
suitable quantity of water, (hot or cold—as
may be preferred,) in the box. I then put 70
the articles to be cleansed in the slated wheel
(B), and turn the same by means of a crank.
As the wheel revolves the articles are turned
over and over, and at the same time are
beaten by the falling of the swinging beater 75
(*d*), which in a very short time will thor-
oughly cleanse even the most filthy and dirty
garment. It is ascertained by actual ex-
periment that a machine constructed as here
described possesses very great advantages 80
over the majority of washing machines, inas-
much as it washes expeditiously the most
delicate article without any injury whatever.

Having thus fully described my invention
what I claim, and desire to secure by Letters 85
Patent is—

The arrangement of the swinging beater
(*d*) and pins (*i i*), when used in combina-
tion with the open revolving wheel, provided
with beveled slats, substantially as and for 90
the purpose specified.

AMOS B. HARLAN.

Witnesses:

T. H. ALEXANDER,
M. H. GOODRIDGE.