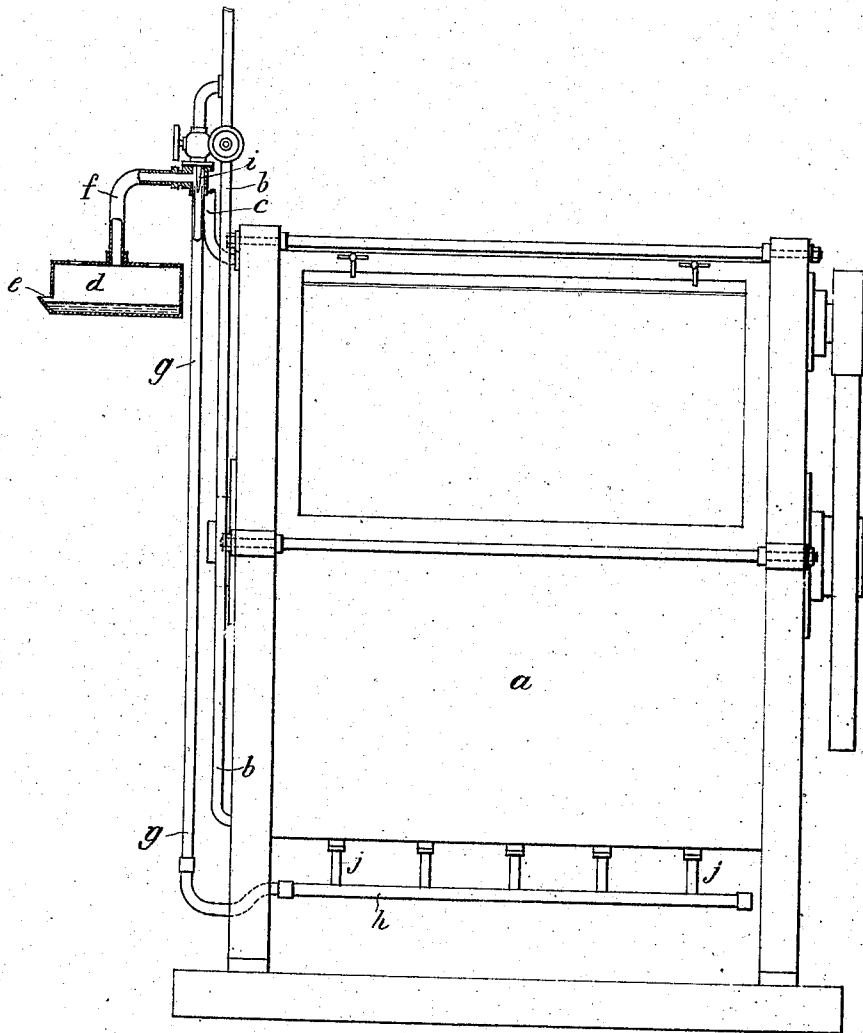


F. L. BARTELT.
ATTACHMENT FOR WASHING MACHINES.
APPLICATION FILED NOV. 19, 1907.

933,358.

Patented Sept. 7, 1909.



Witnesses:

Henry Thiele
J. George Barry,

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UNITED STATES PATENT OFFICE.

FRIEDRICH LUDWIG BARTELT, OF BRISTOL, ENGLAND.

ATTACHMENT FOR WASHING-MACHINES.

933,358.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed November 19, 1907. Serial No. 402,825.

To all whom it may concern:

Be it known that I, FRIEDRICH LUDWIG BARTELT, a subject of the King of Great Britain, and a resident of 3 Kensington Place, Brislington, Bristol, England, soap and chemical manufacturer, have invented a new and useful Attachment for Washing-Machines, of which the following is a specification.

10 The present invention has reference to a device to be attached to steam-heated washing machines such as are commonly used in laundries by means of which detergent vapor may be introduced into the washing solution
15 for the purpose of making a lather and facilitating the cleansing of the articles being washed.

My invention will be clearly understood on referring to the accompanying drawing
20 which shows in side elevation an ordinary rotary washing machine with my attachment fitted thereto.

a is the washing machine provided with an internal cage and means for rotating the
25 same.

b is a steam pipe for heating the solution in the machine.

c is a pipe by means of which the machine is supplied with water or solution.

30 My novel attachment consists of a receptacle *d* shown in section capable of receiving a limited quantity of volatile material, say, for instance, turpentine. The turpentine, which is a liquid can be introduced by the
35 aperture *e* at the side, which is provided with a lip and which will also act as a safeguard against filling the vessel *d* too full.

The vessel or receptacle *d* has a perforated cover and is supported by the branch *f* of the
40 pipe *g*. This pipe *g* is connected at the bottom to the pipe *h* which has branches *j* communicating with the interior of the washing machine. At the other end the pipe *g* is fitted with a steam injector *i* fed by a branch

from the steam pipe *b*. Cocks of the usual 45 description are provided for the various pipes. When the injector *i* is in operation, from the receptacle *d* through the pipe *f* is drawn air laden with the vapor of the volatile material contained in the receptacle *d*, 50 the air being admitted to the receptacle through the holes above mentioned. Further the action of the injector forces the vapor down the pipe *g* and through the pipe *h* and branches *j* into the machine *a*. 55

In injecting detergent vapors into the machine in this way no extra power need be employed and no steam is wasted and even if the steam in the injector loses some of its heat such an extremely small amount of 60 steam is required to work the injector that the loss of heat amounts to nothing.

What I do claim as my invention, and desire to secure by Letters Patent, is:—

An attachment for washing machines in 65 which the washing solution is heated by steam from a steam pipe exterior to and connected with the interior of the machine, said attachment comprising a receptacle for volatile material in communication with the 70 atmosphere above the level of the volatile material therein, a pipe leading from said receptacle from a point above the body of volatile material therein and communicating with the interior of the machine independent 75 of the steam pipe, a steam injector located in said volatile material conducting pipe and connected by a branch pipe with the steam supply pipe and means for controlling the admission of steam to the injector. 80

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRIEDRICH LUDWIG BARTELT.

Witnesses:

ALFRED S. BISHOP,
WALTER TANDY.