

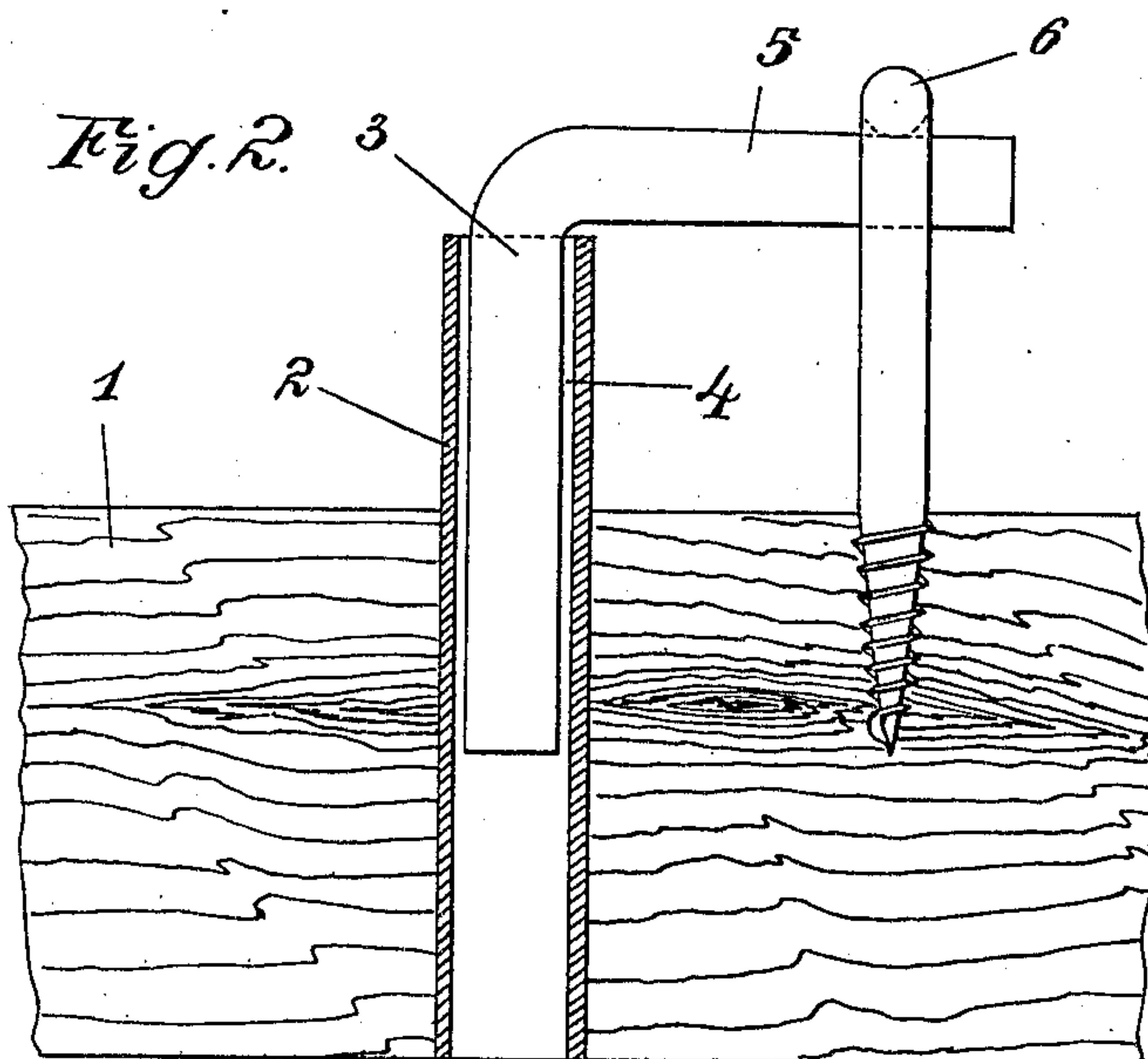
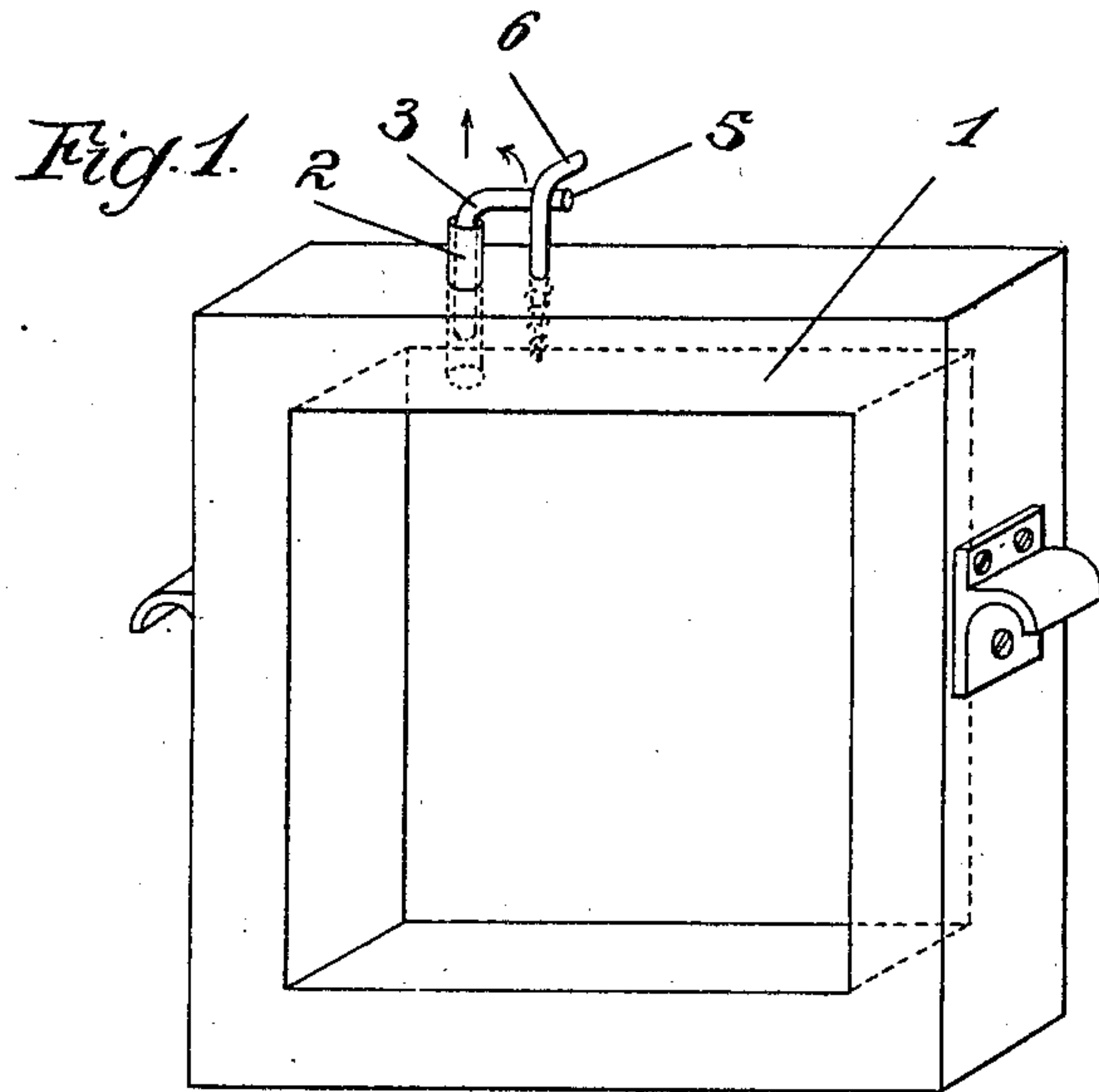
No. 871,411.

PATENTED NOV. 19, 1907.

G. A. JACOBI.

SOAP FRAME.

APPLICATION FILED AUG. 22, 1907.



Witnesses:-  
Ottor. Holmgren.  
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Georg August Jacobi  
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his Attorneys

# UNITED STATES PATENT OFFICE.

GEORG AUGUST JACOBI, OF DARMSTADT, GERMANY.

## SOAP-FRAME.

No. 871,411.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed August 22, 1907. Serial No. 389,624.

*To all whom it may concern:*

Be it known that I, GEORG AUGUST JACOBI, manufacturer, and resident of 19 Riedeselstrasse, Darmstadt, in the Grand Duchy of Hessen, German Empire, have invented new and useful Improvements in Soap-Frames, of which the following is a specification.

This invention relates to a device for allowing air to escape from soap setting frames, especially such as are arranged after the manner of a filter press. In these frames, when the hot liquid soap flows in under pressure, care must be taken that the air in the frame can escape. Hitherto for this purpose the frame has generally been provided with cocks, which were shut at a suitable moment, that is directly the frames were full of soap. With this arrangement it was necessary to watch carefully the filling of the frame so as to prevent the liquid soap from spurting out the open cock.

The device forming the subject matter of the present invention automatically closes in a very simple manner directly the frame is full of soap, so that an unexpected issue of the liquid soap through the air-vent is avoided. For this purpose through the upper part of each frame extends a pipe serving as an air vent; in this pipe there is a stopper, suitably of metal, which however does not close the pipe tightly, but leaves an annular space such that a constant flow of air is possible. As soon as the soap rises in the frame until it comes in contact with the stopper, it is rapidly cooled by the metal parts, so that the annular space is closed by the congealing soap and an overflow cannot occur. The stopper is sufficiently long to insure the setting of the soap round it. The stopper is held by a device, which prevents it from being pressed out by the soap. By turning this device or the stopper, the latter can be removed, which is necessary to free the air vent from soap, before the frame can be used again.

The accompanying drawings illustrate the invention.

Figure 1 is a perspective view of the frame, while Fig. 2 is a sectional elevation of the air vent drawn to an enlarged scale.

1 is the frame, 2 is the air vent opening upwards, at the mouth of the latter is a stopper, for example an iron rod 3 bent at right angles. Between the stopper 3 and the sides of the air vent there remains an annular space 4 through which the air can escape when the liquid soap is poured in. The limb 5 of the bent iron rod is placed under a hook 6 so as to prevent the stopper 3 from being forced out by the incoming soap. When the contents of the frame have set the stopper is turned to disengage it from the hook 6 and it is then removed from the air vent, so that this can be easily cleaned. Although the air vent is shown in the drawings as being circular in cross section, it is obvious that other forms may be used with the same effect.

The essence of the invention consists in automatically sealing the air vent by the liquid soap owing to the cooling of the latter on the metal parts. It is also possible to seal the vent automatically by making the pipe so narrow that the liquid soap congeals directly it enters the pipe. This however is not practicable as it is impossible to remove the soap from such a narrow pipe so that on again filling the frame a safe air vent is not secured. But by making the vent comparatively wide as already described, then on removing the stopper it can easily be cleaned so that a safe air vent is secured for the next time the frame is used.

Now what I claim and desire to secure by Letters Patent is the following:

1. An air vent for soap frames comprising an outlet in the upper part of the frame and a stopper for closing this outlet, the cross section of the said stopper being less than the internal cross section of the outlet.

2. An air vent for soap frames comprising an outlet in the upper part of the frame a stopper for this outlet of smaller cross section than the internal cross section of the outlet and a means for securing the stopper in its place.

3. An air vent for soap frames comprising an outlet in the upper part of the frame a rod of iron of lesser cross section than the outlet and bent at right angles and a means for securing the rod in its place.



4. An air vent for soap frames comprising  
an outlet in the upper part of the frame, a  
rod of iron bent at right angles and of  
smaller cross section than the outlet, and a  
5 hook holding the horizontal limb of the bent  
iron rod in its place.

In testimony, that I claim the foregoing as

my invention, I have signed my name in  
presence of two witnesses, this 9th day of  
August 1907.

GEORG AUGUST JACOBI.

Witnesses:

FRIEDR. WAGNER,  
RUDOLF ERMOLD.