H. K. ULRICH & B. T. CUBINE.

ROOF FLASHING.

APPLICATION FILED DEC. 7, 1908.

921,752. Patented May 18, 1909.

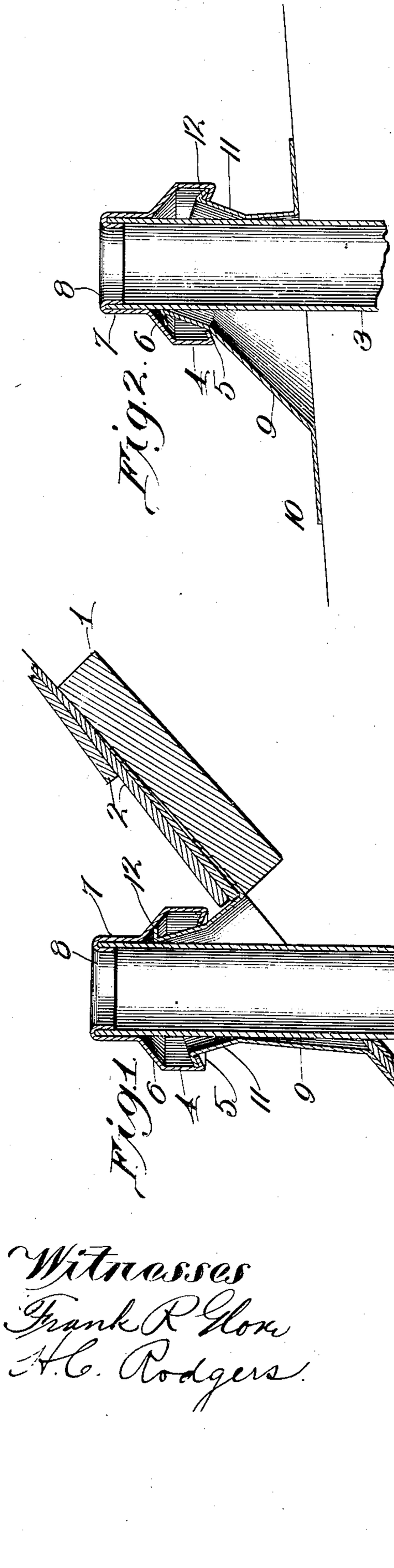

Fig. 2.

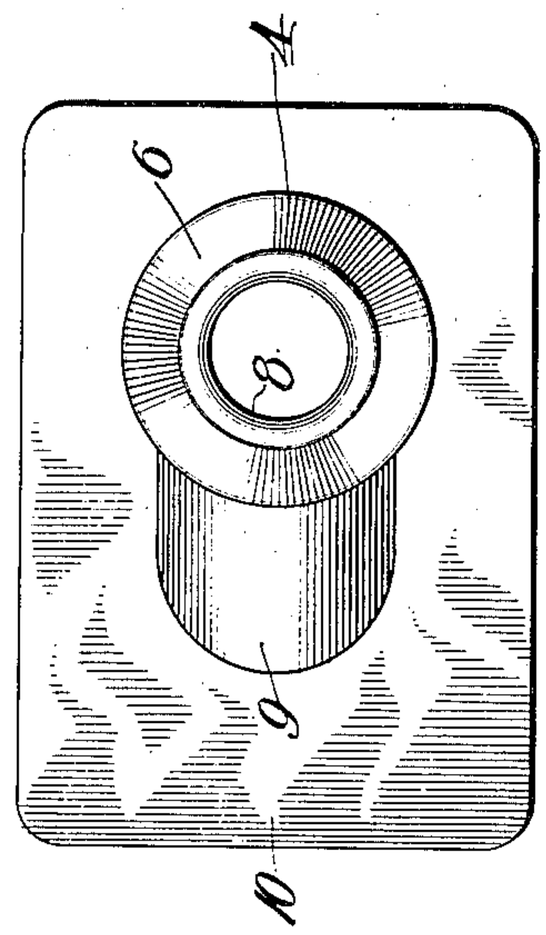

Fig. 4.

Fig. 1.

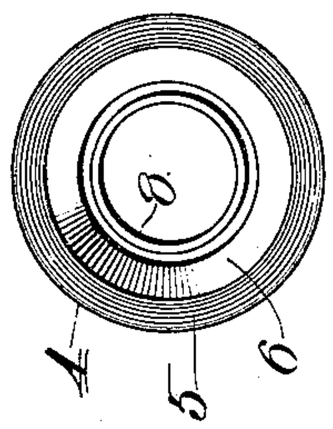

Fig. 3

Witnesses
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UNITED STATES PATENT OFFICE.

HENRY K. ULRICH AND BURT T. CUBINE, OF KANSAS CITY, MISSOURI.

ROOF-FLASHING.

No. 921,752. Specification of Letters Patent. Patented May 18, 1909.

Application filed December 7, 1908. Serial No. 466,393.

To all whom it may concern:

Be it known that we, HENRY K. ULRICH and BURT T. CUBINE, citizens of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Roof-Flashing, of which the following is a specification.

This invention relates to roof-flashings and has for its object to produce a device of this character capable of use on a flat roof or a roof pitched at any angle, which will reliably prevent water penetrating the roof around the pipe equipped with the flashing and which will accommodate itself without injury, to settling of such pipe or roof.

A further object is to produce a roof-flashing which can be easily and quickly secured in operative position and is of simple, strong, durable and cheap construction.

With these objects in view the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which:

Figure 1, is a vertical section of a pitched roof and vent-pipe equipped with a roof-flashing embodying our invention and also shown in vertical section. Fig. 2, is similar view showing the flashing positioned to accommodate a flat roof. Fig. 3, is an inverted plan view of the upper member of the flashing. Fig. 4, is a top plan view of the roof-flashing.

In the said drawing where like reference characters identify corresponding parts, 1 indicates a part of a roof equipped with shingles 2, and 3 is a vent-pipe extending up through the roof.

The flashing consists of an upper or cap-member suspended from the top of the vent-pipe, and a lower member encircling said pipe and secured to the roof at its lower end and projecting upwardly into the cap-member and bearing a universally-adjustable relation with the cap-member so that the flashing shall be capable of use on a horizontal roof or a pitched roof.

The upper or cap-member consists of a cylindrical portion 4 of considerably greater diameter than and concentrically surrounding the vent-pipe and provided at its lower end or edge with an internally and preferably upwardly-sloped circular flange 5 which, internally-measured, considerably exceeds the diameter of the vent pipe. The portion 4 and its flange 5 are preferably of stiff sheet metal.

6 indicates the top-portion of the cap the same being preferably of lead or other flexible metal and tapering upwardly and inwardly and terminating in an upwardly projecting cylindrical portion 7 snugly embracing the upper end of the vent pipe and terminating in a circular inturned downwardly-opening hook-portion 8, hooked on the upper end of the pipe. By this arrangement it will be seen that it is impossible for water to pass down between the vent pipe and said upper or cap-member.

The lower member which is preferably of sheet metal, consists of an upwardly-tapering hollow body-portion 9 provided at its lower end with an outturned flat flange 10. At its upper end the body-portion 9 forms a circle of materially less diameter than flange 5 and greater diameter than the vent pipe so that the latter may extend through it at varying angles, and rising from said upper or contracted end of body-portion 9 is a cylindrical neck-portion 11 which extends up through the opening formed by flange 5 and into the portion 4 of the cap-member, the upper end of the neck-portion 11 terminating in an outturned flange 12 which bears such relation to flange 5 that it is impossible for the cap-member to be withdrawn from engagement with the lower member, though the latter by reason of its equipment with the cylindrical neck-portion 11 is capable of assuming different angular relations with respect to the cap-member, as shown clearly in Figs. 1 and 2.

By reference to Fig. 1, it will be seen that the shingles prevent rain water or water from melted snow, from penetrating between the flashing and the roof and thus entering the building, and that the cap-member effectually guards against the passage of water down the outer side of the vent pipe. If the building settles independently of the vent pipe and thereby causes flange 12 to pull heavily downward on flange 5, the portions 6 and 7 of the cap-member will tend to straighten or come into alinement and thus accommodate the settling of the building without disrupting or injuring the flashing. Should the pipe settle to a limited extent independently of the roof, the hook-portion 8 will still overlap its upper end and prevent

the access of water to the outer side of the pipe. It will thus be seen that this flashing not only accommodates itself to roofs of varying pitches and styles but also adapts itself to independent settling of the roof or pipe so that it is impossible for water to leak through the roof around the pipe, and it will be apparent that the device is susceptible of modification in its form, proportion, detail construction and arrangement without departing from the spirit and scope or sacrificing any of the advantages of the appended claims.

Having thus described the invention what we claim as new and desire to secure by Letters-Patent, is:—

1. In a roof-flashing, a lower member comprising an upwardly-tapering body-portion provided with a flange at its lower end and terminating at its upper end in a cylindrical neck equipped at its upper end with an outwardly-projecting flange, and a cap-member comprising a cylindrical portion receiving the flanged end of the said neck and provided at its lower end with an inwardly-projecting flange underlying the said flange of the neck and at its upper end with a flange terminating in an inturned and downwardly-opening circular hook-portion of smaller diameter than the neck-portion of the lower member.

2. In a roof-flashing, a lower member comprising an upwardly-tapering body equipped at its lower end with a flat flange and terminating at its upper end in a cylindrical neck having an outwardly-projecting circular flange at its upper end lying in a plane converging upward with respect to said flat flange, and a cap-member comprising a cylindrical portion receiving the flanged end of the said neck and provided at its lower end with an internal circular flange underlying the said flange of the neck and at its upper end with a flexible upwardly-tapering portion and a flexible cylindrical portion extending upwardly from the upper end of the tapering portion and terminating in a circular inturned and downwardly-opening hook portion.

3. In a roof-flashing, a cap-member comprising a cylindrical portion equipped at its lower end with an upwardly-tapering flexible portion and with a flexible cylindrical portion extending upward from the upper end of the tapering portion and with an inturned downwardly-opening circular hook at the upper end of the said flexible cylindrical portion.

4. In a roof-flashing, a member consisting of an upwardly-tapering body-portion provided with an outturned flat flange at its lower end and with a cylindrical neck at its upper end and with an outturned circular flange at the upper end of said neck.

5. The combination with a roof and a vent pipe projecting upwardly therethrough, of a roof-flashing comprising a lower member encircling the vent pipe and consisting of an upwardly-tapering body-portion provided with a flange at its lower end and secured to the roof and with an upwardly-projecting cylindrical neck-portion having an external circular flange, and a cap-member encircling the vent pipe and consisting of a cylindrical portion receiving the flanged end of the said neck, an upwardly-projecting tapering portion projecting from the upper end of said cylindrical portion, and a cylindrical, flexible metal portion extending upward from the upper end of the tapering portion and snugly embracing the vent pipe and terminating in an inturned downwardly-opening circular hook-portion fitting over the upper end of the vent pipe.

In testimony whereof we affix our signatures, in the presence of two witnesses.

HENRY K. ULRICH.
BURT T. CUBINE.

Witnesses:
H. C. RODGERS,
G. Y. THORPE.