D. J. GALBRAITH.

FLASHING.

APPLICATION FILED JULY 21, 1909.

1,000,506. **Patented Aug. 15, 1911.**

FIG. 1.

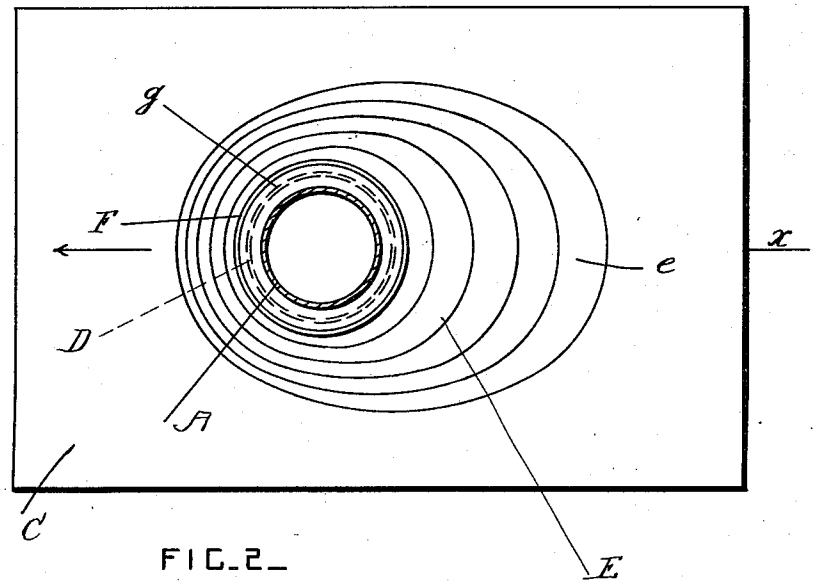
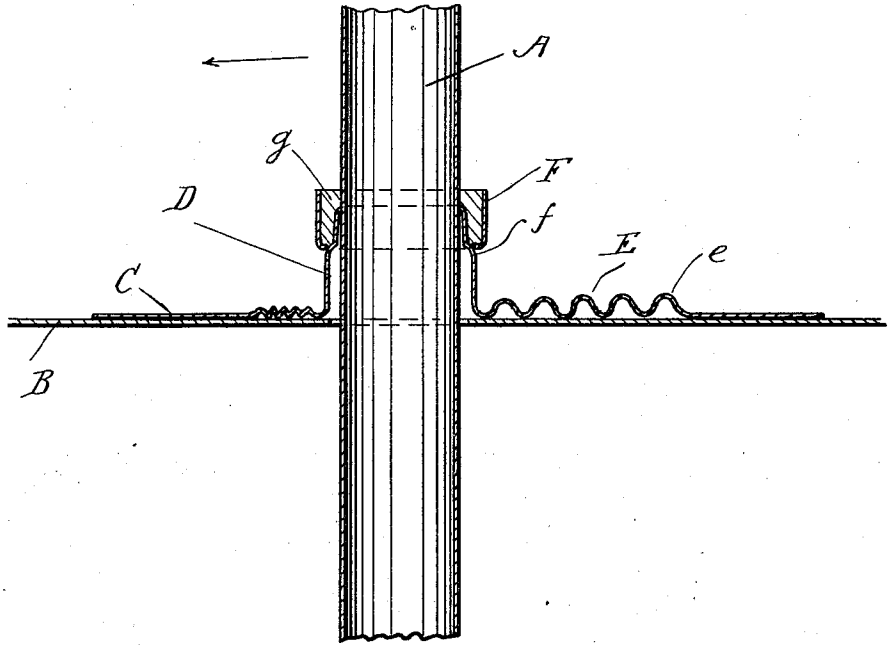


FIG. 2.



Witnesses

L. B. Middleton

Geo. H. Evans

Inventor

Dennis J. Galbraith.

By Herbert W. J. Sumner.

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

DENNIS J. GALBRAITH, OF PLAINFIELD, NEW JERSEY.

FLASHING.

1,000,506. Specification of Letters Patent. **Patented Aug. 15, 1911.**

Application filed July 21, 1909. Serial No. 508,750.

To all whom it may concern:

Be it known that I, DENNIS J. GALBRAITH, a citizen of the United States, residing at Plainfield, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Flashings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to flashings for making weather-tight joints around pipes which project through holes in the roofs of buildings; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a plan view of the flashing. Fig. 2 is a cross-section through the flashing, taken on the line *x*—*x* in Fig. 1.

A is a ventilating or other similar pipe which projects through an opening in a roof or roofing-plate B.

C is the base-plate of the flashing which is provided with a short tubular stem D. A series of corrugations E is pressed or is otherwise suitably formed in the base-plate C. These corrugations are arranged in oval form and are eccentric of the tubular stem D. Those portions *e* of the corrugations which are farthest from the center of the stem are wider and deeper than the corrugations on the other side of the stem and which are relatively nearer to its center. The corrugations increase in width and depth in proportion to their increase in distance from the center of the stem. The tubular stem is smallest at its upper end so that its upper end can be fitted tightly to the pipe A, and F is a ring or collar which is placed over the upper end portion of the stem and which rests on a shoulder *f* on the middle part of the tubular stem. A packing of lead *g* or other similar soft material is run into the annular space between the ring and the stem and pipe, and is pressed and hammered into place so as to make a weather-tight joint.

This flashing can be secured to a flat roof or to an inclined roof, and when secured to an inclined roof the stem is bent over or inclined in the direction of the arrows so that it stands vertical. The corrugations permit the stem to be inclined with respect to the base-plate, and the eccentricity of the corrugations permits and facilitates the adjustment in the direction indicated by the arrows. The stem itself is not elastic or extensible, but the corrugations of the base-plate form an elastic support for it so that the joint is not affected by any settlement of the roof.

What I claim is:

1. In a flashing, the combination, with a pipe, of a base-plate provided with a tubular stem for engaging with the pipe, said base-plate having also a series of corrugations arranged eccentric of the said stem.

2. In a flashing, the combination, with a pipe, of a base-plate provided with a tubular stem for engaging with the pipe, said base-plate having also a series of corrugations arranged eccentric of the said stem, and said corrugations being wider and deeper in proportion to their increase of distance from the stem.

3. In a flashing, the combination, with a pipe, of a base-plate provided with a tubular stem for engaging with the pipe, said base-plate having also a series of corrugations arranged eccentric of the said stem, a ring encircling the upper end portion of the stem, and packing-material between the said ring and the stem and pipe.

4. A roof-flashing comprising a cylindrical collar having a transverse plate thereon, said plate having a series of annular corrugations successively surrounding the collar and one another permitting the outer portion of the plate to be tilted with reference to the collar.

In testimony whereof I have affixed my signature in the presence of two witnesses.

DENNIS J. GALBRAITH.

Witnesses:

PETER GALBRAITH,

F. J. BLATZ.