

No. 885,318.

PATENTED APR. 21, 1908.

L. H. BULLARD.

ROOF FLASHING.

APPLICATION FILED SEPT. 9, 1907.

2 SHEETS—SHEET 1.

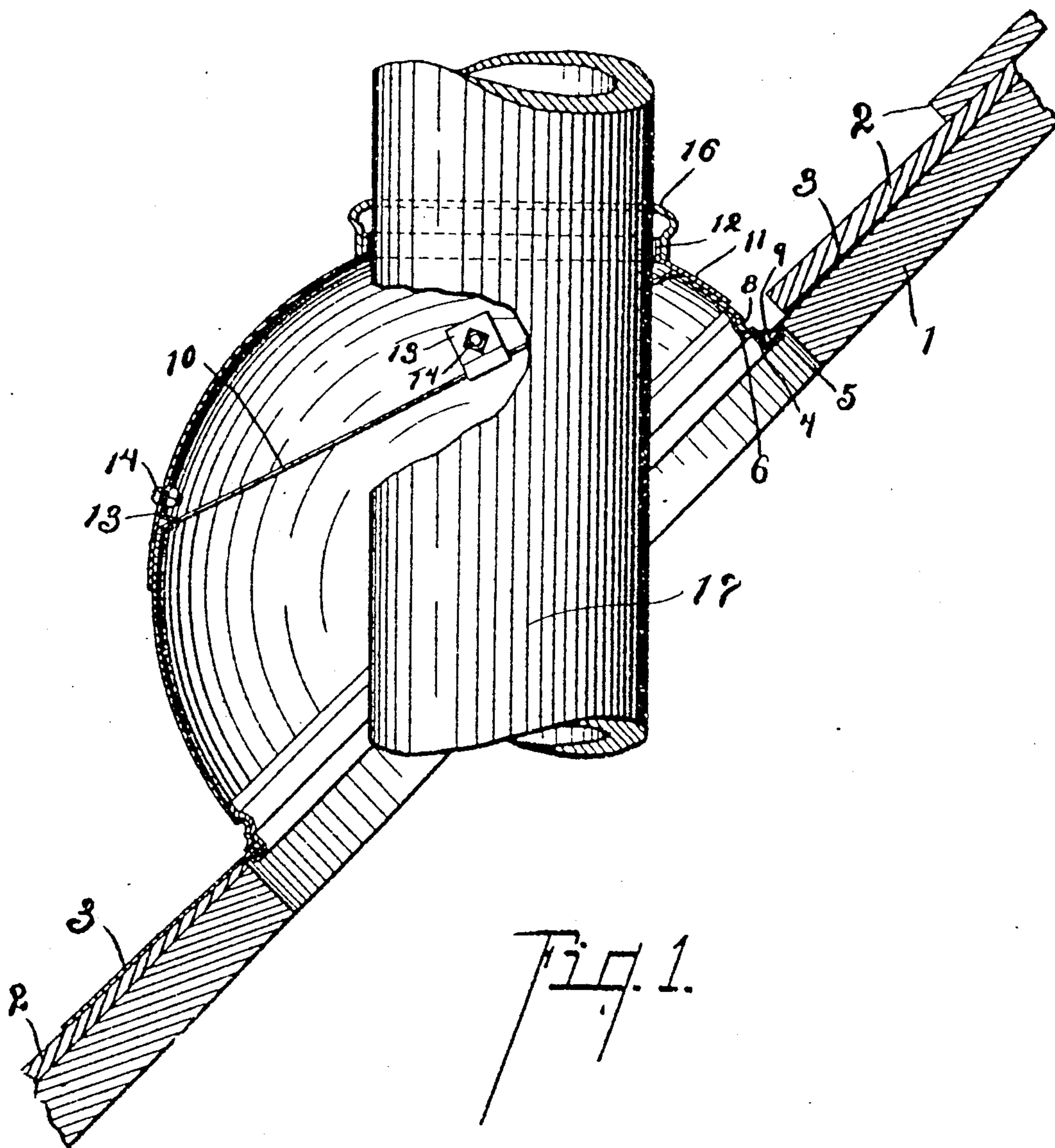


Fig. 1.

Witnesses

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28 SHEETS—SHEET 2.

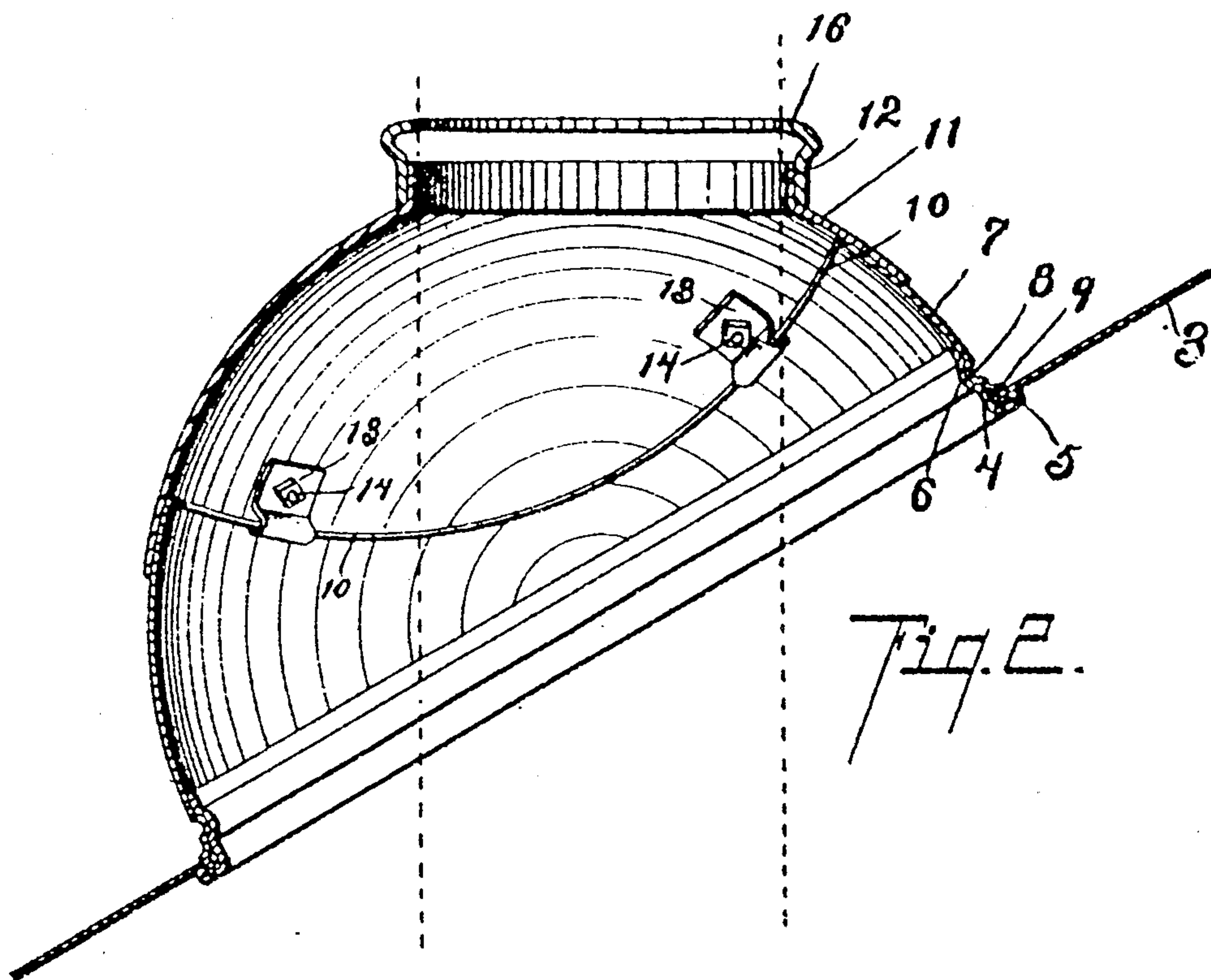


Fig. 2.

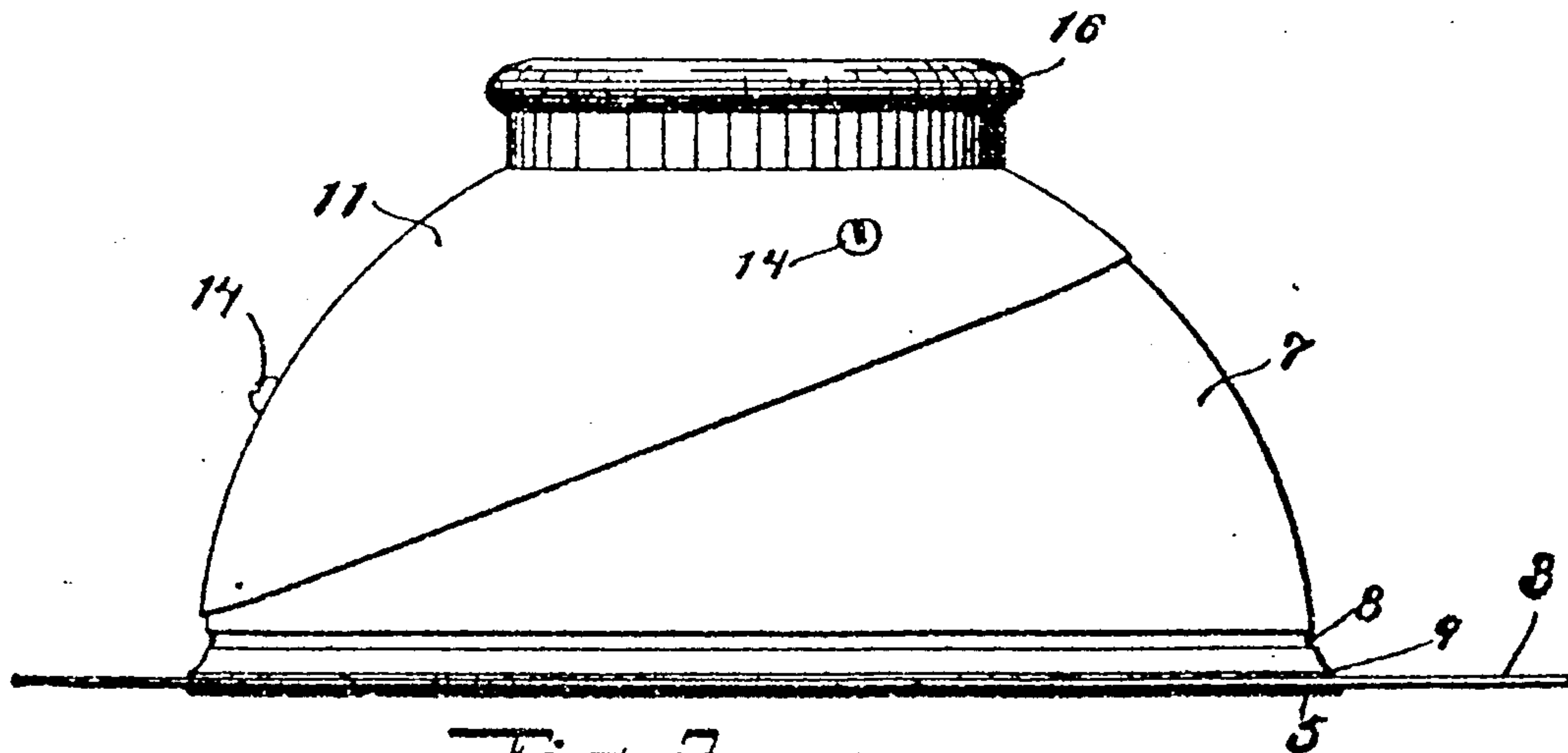


Fig. 3.

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885,318 ROOF-FLASHING. LEWIS H.
BULLARD, Kalamazoo, Mich., assignor
to Oscar Gumbinsky, Kalamazoo, Mich.
Filed Sept. 9, 1907. Serial No. 392,023.

To all whom it may concern:

Be it known that I, LEWIS H. BULLARD, a
citizen of the United States, residing in the
city and county of Kalamazoo, State of
Michigan, have invented certain new and

useful Improvements in Roof-Flashings, of which the following is a specification.

This invention relates to improvements in roof flashings.

The main objects of this invention are,—first, to provide an improved roof flashing which may be adjusted for use on flat roofs or on roofs of varying pitch. Second, to provide an improved adjustable roof flashing which may be very readily adjusted to the particular position required on the roof, on which it is desired to be used.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which,

Figure 1 is a detail view of my improved roof flashing shown in vertical section applied to a roof. Fig. 2 is a vertical section through my improved roof flashing before the same is applied to a roof, it being adjusted to a different position from that shown in Fig. 1. Fig. 3 is a side elevation of my improved roof flashing adjusted to a vertical pipe on a flat roof.

In the drawing, similar numerals of reference refer to similar parts throughout the several views.

Referring to the drawing, 1 represents a roof board having a hole therethrough to receive the pipe 17, which, in the accompanying drawing, is illustrated as a vent pipe.

My improved flashing consists of the base plate 3, the upper edge of which when applied to a shingled roof is adapted to be inserted under the shingles, as 2, the lower edge being lapped upon the same, as clearly appears in Fig. 1. The base or roof plate is provided with an upwardly-projecting flange 4 about the openings therein, the flange being secured to the plate by a double seam, as 5. This flange and base plate might be formed integral, but I prefer to form the same in two parts, as the metal is somewhat weakened in flanging the same up from the base. The flange is provided with an annular peripheral groove 6, adapted to receive the bead-like annular rib 8 formed in the base segment 7. The base segment 7 is adapted to embrace the flange 4 and is turned outwardly at its lower edge, as at 9.

The base segment is spherical and is provided with an inwardly-projecting flange 10 about its upper edge. The cap section 11 is also in the form of a spherical segment, and is adapted to fit upon the base segment, it be-

ing secured thereon by means of the clips 13 arranged on the inside, the clips 13 having hook portions which are engaged over the flange 10 on the base section. These clips are secured to the cap section by means of the bolts 14, the nuts 15 being arranged on the outside. By thus connecting the parts, the base segment may be adjusted to any desired position on the base plate, and the cap section may be adjusted to any desired position on the base segment. After adjusting the cap segment upon the base, it may be clamped in position, if desired, by means of the clip bolts 14. The cap segment is provided with an upwardly-projecting flange 12 at its upper end adapted to receive the packing ring 16. The packing ring is preferably formed of lead, or other suitable packing material, so that it may be calked up about the pipe, as 17, after the flashing has been adjusted. This calking up of the packing ring forces the parts together, so that the joints between them are tightened.

My improved roof flashing is readily adjusted to flat roofs, or roofs of varying pitches and may be very quickly applied. It is a very desirable construction in that it is economical and effective for the purpose and is completely and readily adjusted and may be applied by an unskilled workman.

I have illustrated and described my improvements in detail in the form preferred by me on account of its structural simplicity and economy. I am, however, aware that it is capable of being considerably varied in structural details without departing from my invention.

It will be noted that no soldered joints are necessary in the structure as I have here produced it, the parts being flanged and seamed together in such a way that no soldered joints are necessary.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a roof flashing, the combination with a base plate having a pipe opening therethrough, of an upwardly-projecting annular flange about said opening, said flange having a peripheral groove therein; a spherical base segment arranged upon said flange and having an inwardly-projecting annular bead adapted to engage the said groove therein, whereby said base segment is adjustably secured thereon, said base segment having an inwardly-projecting flange at its upper edge, the lower edge of said base segment being turned outwardly and resting upon said base plate; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough provided with an upwardly-projecting flange; clips secured to said cap segment adapted to engage said flange on said base segment; and a packing

ring arranged on said flange of said cap segment.

2. In a roof flashing, the combination with a base plate having a pipe opening therethrough, of an upwardly-projecting annular flange about said opening, said flange having a peripheral groove therein; a spherical base segment arranged upon said flange and having an inwardly-projecting annular bead adapted to engage the said groove therein, whereby said base segment is adjustably secured thereon, said base segment having an inwardly-projecting flange at its upper edge, the lower edge of said base segment being turned outwardly and resting upon said base plate; a spherical cap segment arranged upon said base segment said cap segment having a pipe opening therethrough; and clips secured to said cap segment adapted to engage said flange on said base segment.

3. In a roof flashing, the combination with a base plate having a pipe opening therethrough, of an upwardly-projecting annular flange about said opening; a spherical base segment adjustably arranged upon said flange, said base segment having an inwardly-projecting flange at its upper edge; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough provided with an upwardly-projecting flange; clips secured to said cap segment adapted to engage said flange on said base segment; and a packing ring arranged on said flange of said cap segment.

4. In a roof flashing, the combination with a base plate having a pipe opening therethrough, of an upwardly-projecting annular flange about said opening; a spherical base segment adjustably arranged upon said flange, said base segment having an inwardly-projecting flange at its upper edge; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough; and clips secured to said cap segment adapted to engage said flange on said base segment.

5. In a roof flashing, the combination with a base plate having a pipe opening therethrough, of an upwardly-projecting annular flange about said opening; a spherical base segment arranged upon said flange, said base segment having an inwardly-projecting flange at its upper edge; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough provided with an upwardly-projecting flange; clips secured to said cap segment adapted to engage said flange on said base segment; and a packing ring arranged on said flange on said cap segment.

6. In a roof flashing, the combination with a base plate having a pipe opening therethrough, of an upwardly-projecting annular flange about said opening; a spherical base

segment arranged upon said flange, said base segment having an inwardly-projecting flange at its upper edge; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough; and clips secured to said cap segment adapted to engage said flange on said base segment.

7. In a roof flashing, the combination with a base plate, of a spherical base segment secured upon said base plate; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough provided with an upwardly-projecting flange; clips secured to said cap segment adapted to engage said flange on said base segment whereby said cap segment is rotatably secured thereto; and a packing ring arranged on said flange of said cap segment.

8. In a roof flashing, the combination with a base plate, of a spherical base segment secured upon said base plate; a spherical cap segment arranged upon said base segment, said cap segment having a pipe opening therethrough; and clips secured to said cap segment adapted to engage said flange on said base segment whereby said cap segment is rotatably secured thereto.

9. In a roof flashing, the combination with a base plate, of a spherical base segment rotatably secured upon said base plate; and a spherical cap segment rotatably arranged upon said base segment having a pipe opening therethrough.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

LEWIS H. BULLARD. [L. s.]

Witnesses:

LUELLA G. GREENFIELD,
ADELAIDE T. ADAMS.