H. C. FOLGER.

ADJUSTABLE ROOF FLANGE.

APPLICATION FILED JAN. 16, 1909.

936,991.

Patented Oct. 12, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

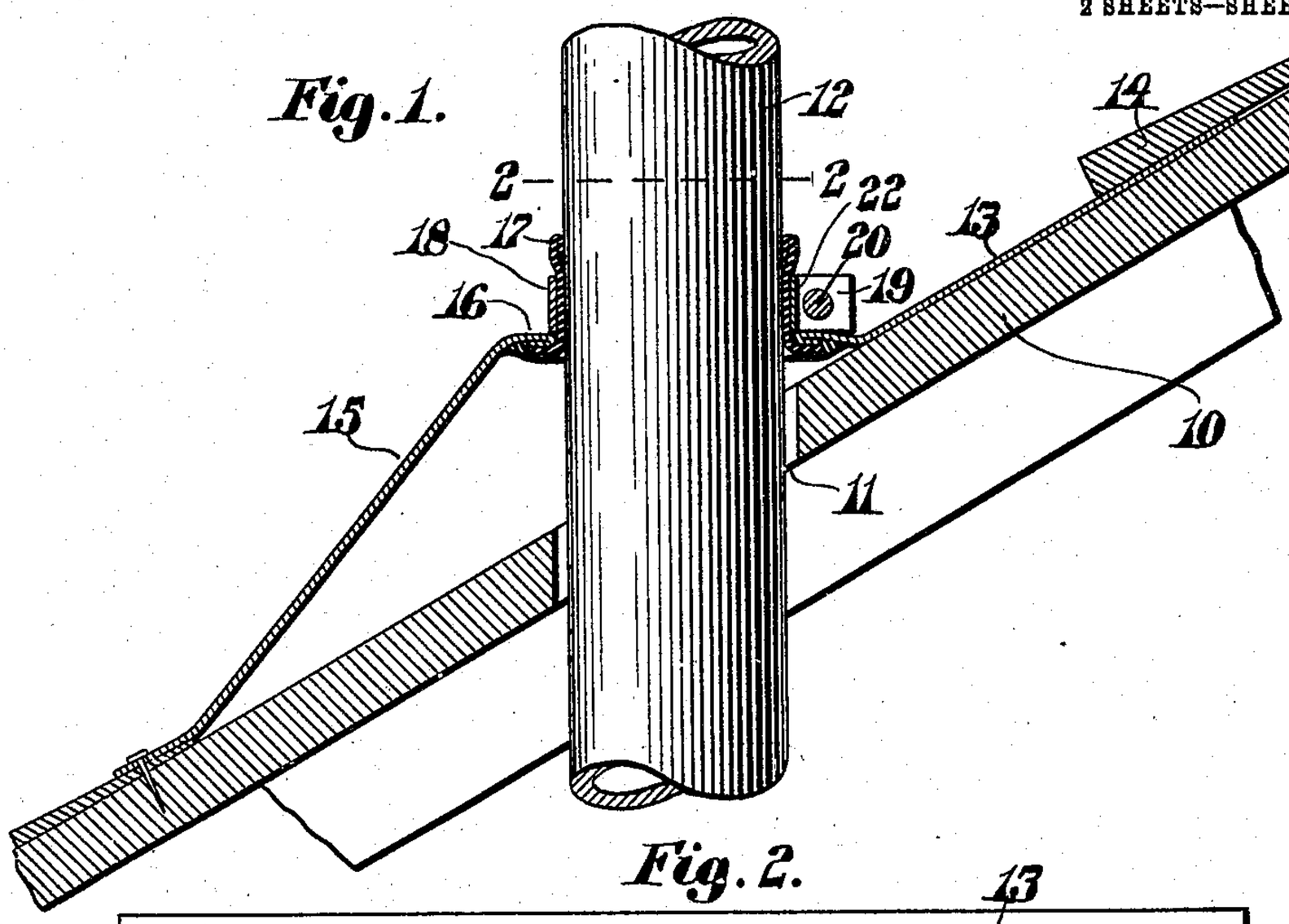
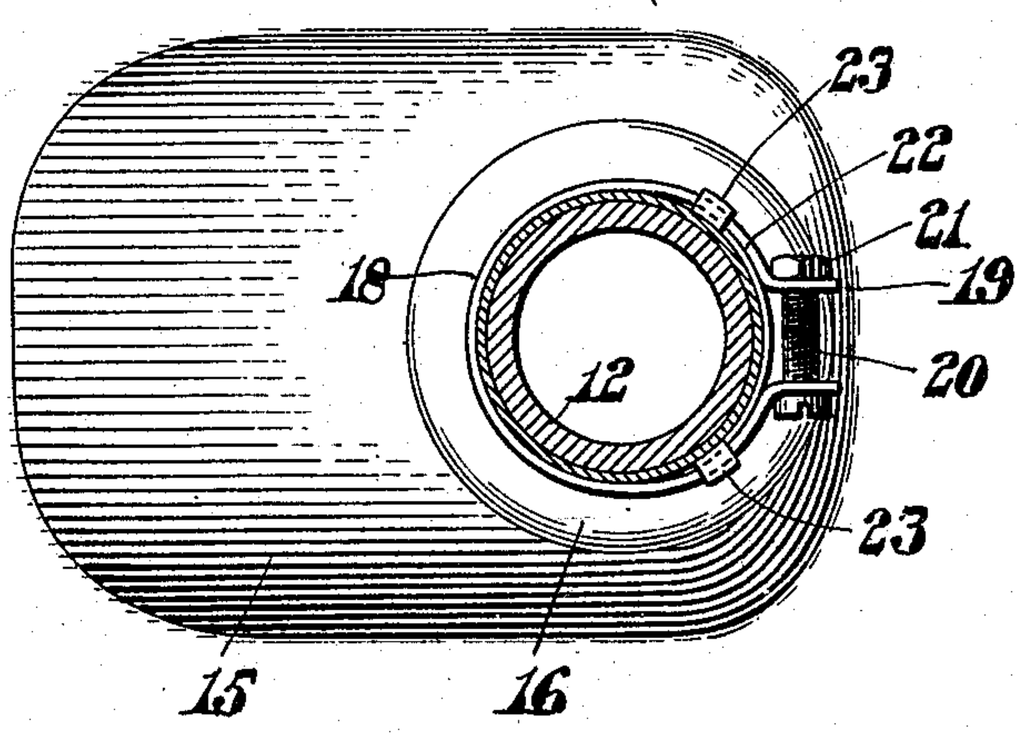


Fig. 2.



Witnesses:

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2 SHEETS—SHEET 2.

Fig. 3.

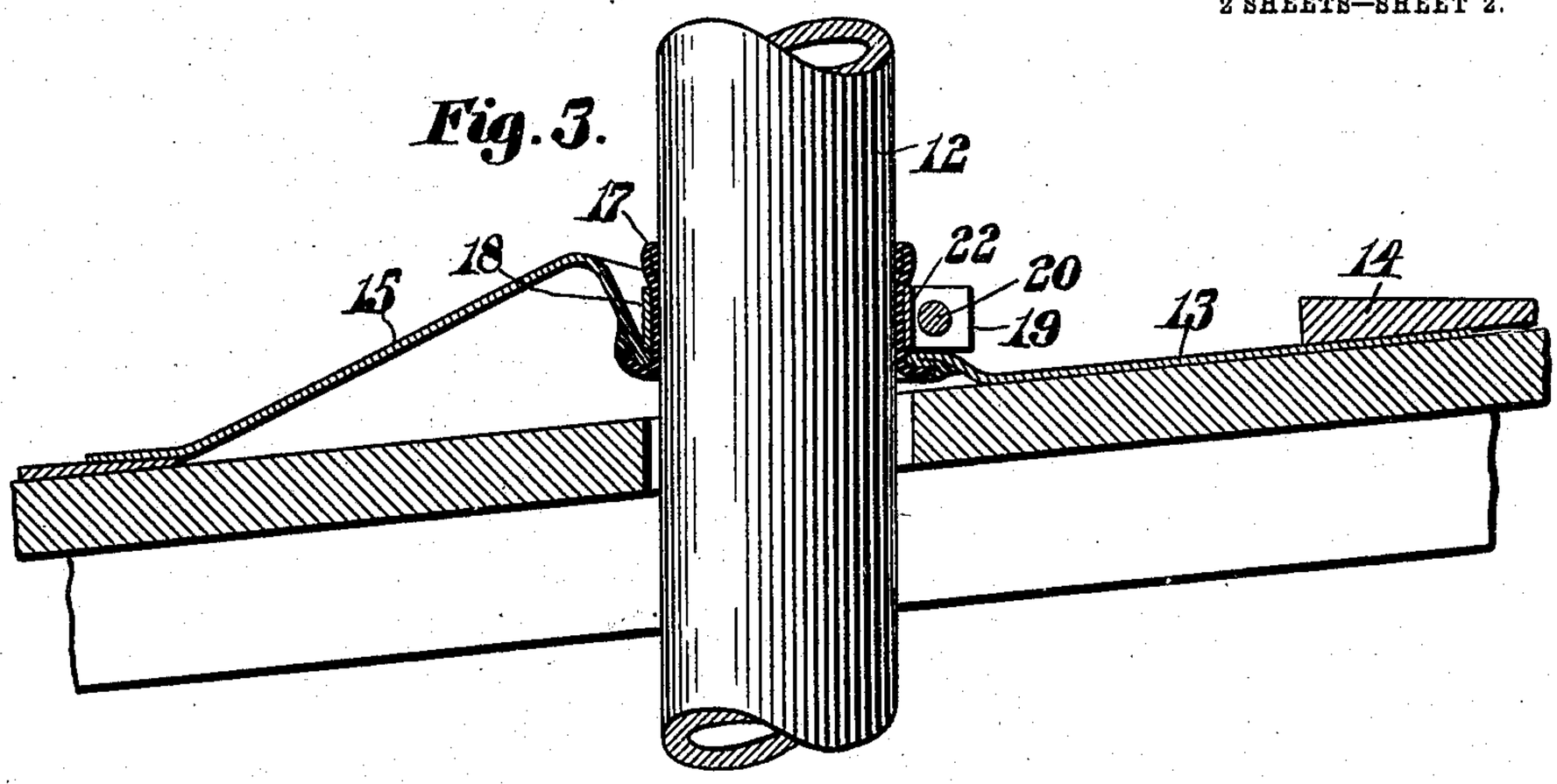


Fig. 4.

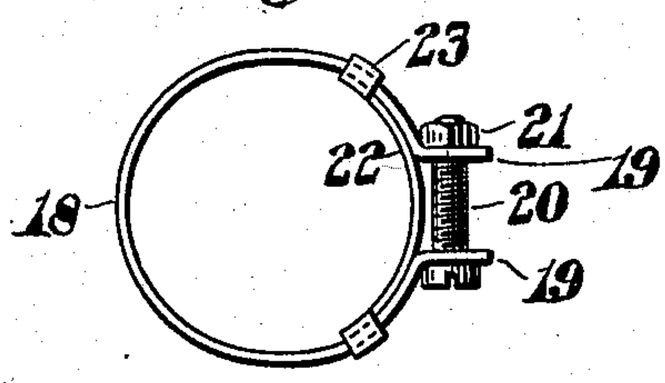
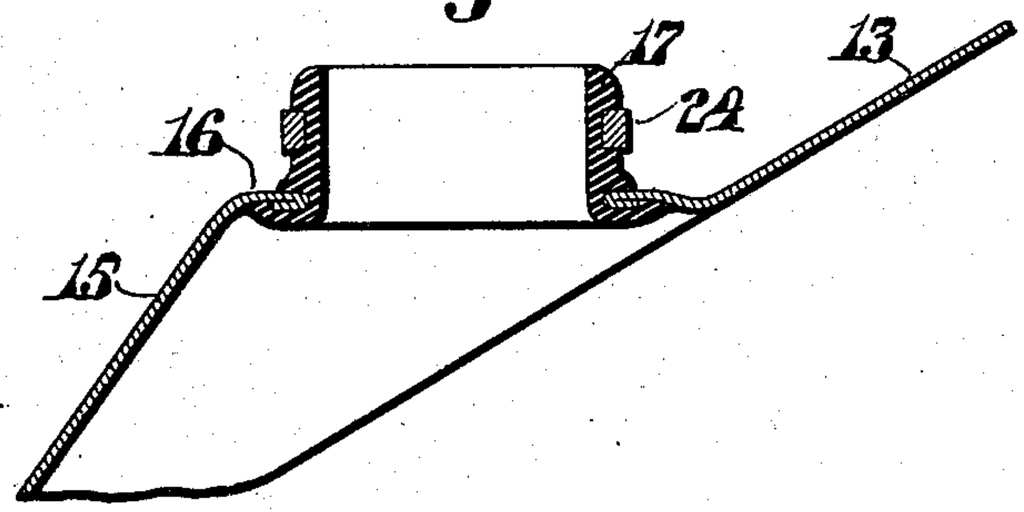


Fig. 5.



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UNITED STATES PATENT OFFICE.

HENRY C. FOLGER, OF MEDFORD, MASSACHUSETTS, ASSIGNOR TO ACME MANUFACTURING COMPANY, OF BANGOR, MAINE, A CORPORATION OF MAINE.

ADJUSTABLE ROOF-FLANGE.

936,991. Specification of Letters Patent. Patented Oct. 12, 1909.

Application filed January 16, 1909. Serial No. 472,594.

To all whom it may concern:

Be it known that I, HENRY C. FOLGER, a citizen of the United States of America, and a resident of Medford, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Roof-Flanges, of which the following is a specification.

This invention relates to roof flanges and has for its object the production of a flange of this nature which is adjustable so as to be adapted for use in connection with a variety of roofs having different angles.

The purpose of the flange is to make a tight joint between the ventilating or other pipe passing through the roof and to more readily effect this result it is desirable that the ring in the flange surrounding the pipe should always be perfectly level notwithstanding the angle of the roof and this is capable of accomplishment by a distortion of the flange embodying the features of this invention.

The invention consists in certain novel features of construction and arrangement of parts which will be readily understood by reference to the description of the drawings and to the claims hereinafter given.

Of the drawings: Figure 1 represents a section through a portion of a roof showing a ventilating pipe extending therethrough to which is applied a flange embodying the features of this invention. Fig. 2 represents a horizontal section of the same, the cutting plane being on line 2—2 on Fig. 1. Fig. 3 represents a section similar to Fig. 1, showing a flat roof with the roof flange adjusted therefor. Fig. 4 represents a plan of the clamping member, and Fig. 5 represents a section of a modified form of ring surrounding the ventilating pipe.

Similar characters designate like parts throughout the several figures of the drawings.

In the drawings, 10 represents a roof of any ordinary construction through an opening 11 in which extends a vertical ventilating or other pipe 12. Secured to the roof 10 is a plate 13 of thin flexible copper the upper end of which is inserted beneath the usual shingles 14. This plate or flashing 13 is provided with a swelled portion 15 normally having a flat surface 16 at an angle to the main body of the plate 13 through an opening in which the ventilating or other pipe 12 extends. A ring 17 of lead is soldered to the interior of the flashing 13 and extends through the opening in the flat surface 16, being adapted to surround the pipe 12. Partially surrounding the lead ring 17 is a metal band 18, the ends 19 of which are bent outwardly parallel to one another to form ears which are connected together by a threaded member 20 having mounted on the end thereof a nut 21 by which the ears 19 may be drawn together as desired.

Interposed between the ears 19 and extending slightly beyond is a segmental band 22 connected to the band 18 by slip joints 23. When a flashing is placed in position upon a roof and the ventilating pipe 12 is passed through the same and properly positioned the ring 17 of lead or other soft metal may be clamped tightly into contact with the pipe by means of this clamping member 18 and 22 by adjusting the nut 21 to draw the ears 19 together. This makes a perfectly tight joint preventing any leakage. The flashing shown in Fig. 1 is shown in its normal position but when it is desired to use the same flashing for a roof of a less pitch the lower or bottom side of the flange is pulled up gently so that the ring or hub surrounding the ventilating pipe will become embedded in the flat surface 16 on the lower side of the flashing as indicated in Fig. 3 of the drawings, the extent that the hub will be embedded into this surface being dependent entirely upon the angle of the roof to which the flashing is being applied. It is obvious therefore that notwithstanding at what angle the roof may be the calking ring 17 may be adjusted relative to the body 13 of the flashing so that it will always remain flat with its axis vertical.

By such a device as is herein shown and described the same flashing may be used for a great variety of roofs of different pitch. Instead of using a divided clamping member such as is shown in Fig. 4, if desired the soft metal ring 17 may be encompassed by a solid metal ring which may be soldered thereto or the joint calked in any other well known manner.

It is believed that the operation and many advantages of the invention will be thoroughly apparent without any further description.

Having thus described my invention, I claim:

1. In a device of the class described, the combination of a roof flange of flexible material consisting of a base adapted to be secured to a roof, a tubular portion within an opening for a ventilating pipe, and an outwardly swelled portion interposed between said tubular portion and said base portion and connected thereto by a portion normally flat but adapted to be bent inwardly into said swelled portion to vary the angle of said tubular portion relative to said base portion.

2. In a device of the class described, the combination of a roof flange of flexible material consisting of a base adapted to be secured to a roof, a tubular portion for a ventilating pipe, and an outwardly swelled portion interposed between said tubular portion and said base portion and connected thereto by a portion normally flat but adapted to be bent inwardly into said swelled portion to vary the angle of said tubular portion relative to said base portion, said tubular portion being of soft metal fixedly secured to the edges of an opening in said normally flat portion.

3. In a device of the class described, the combination of a roof flange of flexible material consisting of a base adapted to be secured to a roof, a tubular portion for a ventilating pipe, a clamping ring surrounding said tubular portion adapted to clamp it against the outer face of said ventilating pipe; and an outwardly swelled portion interposed between said tubular portion and said base portion and connected thereto by a portion normally flat but adapted to be bent inwardly into said swelled portion to vary the angle of said tubular portion relative to said base portion, said tubular portion being of soft metal fixedly secured to the edges of an opening in said normally flat portion.

Signed by me at 4 Post Office Sq., Boston, Mass., this 13th day of January, 1909.

HENRY C. FOLGER.

Witnesses:
EDNA C. CLEVELAND,
NATHAN C. LOMBARD.