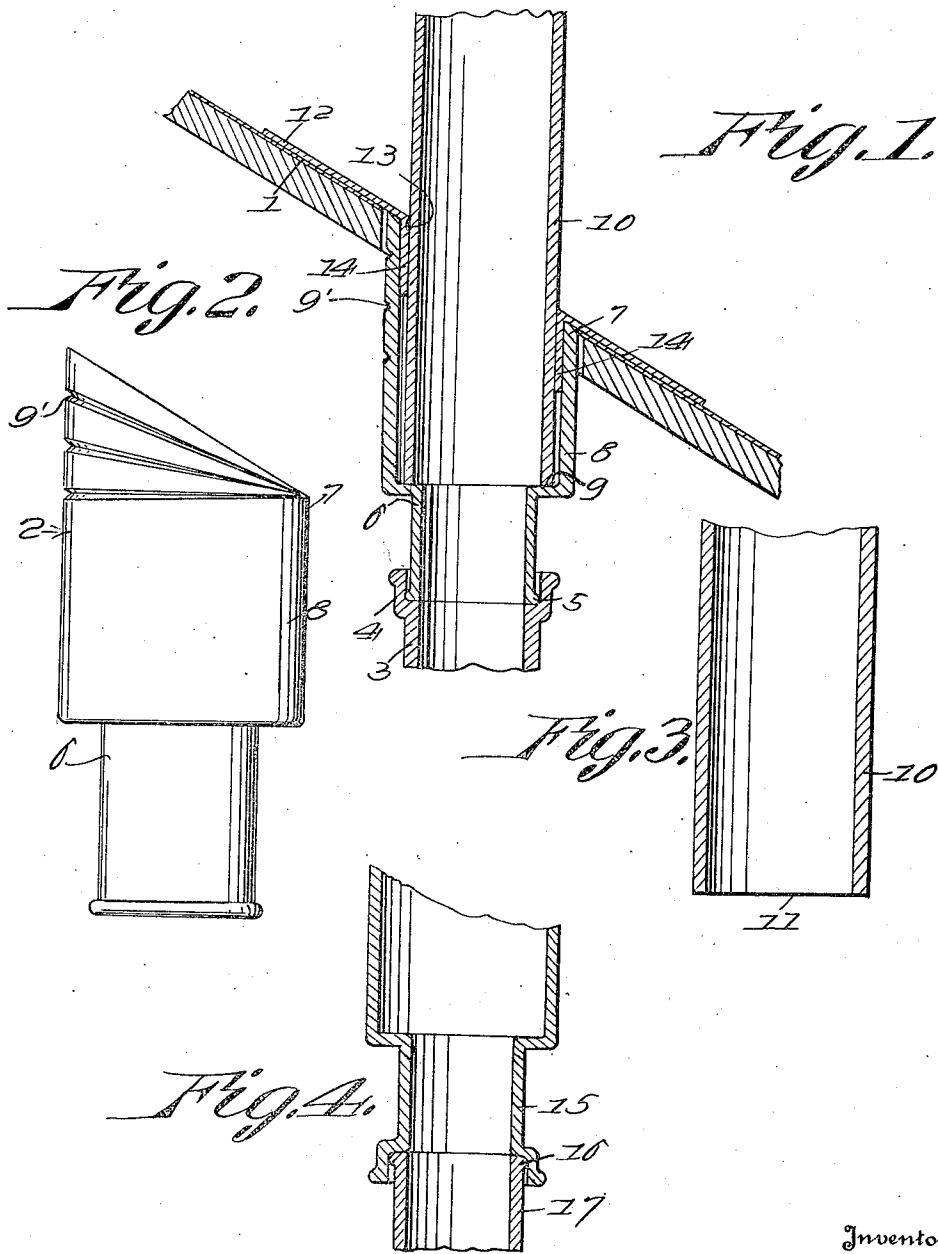


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 ROOF CONNECTION FOR VENT PIPES.
 APPLICATION FILED DEC. 13, 1917.

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1,352,248.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ENOS E. COAR, a citizen of the United States of America, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented new and useful Improvements in Roof Connections for Vent-Pipes, of which the following is a specification.

The present invention comprehends generally improvements in that class of inventions known as baths and closets and more particularly has reference to roof connections for vent pipes.

It is the primary aim and object of the present invention to provide a device of the above character designed for connecting the upper end of sewer vent pipes of buildings in the roof thereof, so that a saving of material may be made.

More particularly, the present invention includes the provision of a connection of the above character designed to be employed particularly in conjunction with slanting or gable roofs.

In some cities and towns, the ordinances require that the upper end of the sewer vent pipe terminates a certain distance, such as a foot or so above the roof, and it is one of the objects of this invention, therefore, to provide a roof connection for vent pipes of a construction that will conform to the requirements, and incidentally will effectively serve its purpose.

Among other objects of the invention may be recited the provision of means formed with the improved fitting or connection whereby the upper edge of the latter may be made to readily and quickly conform to the pitch of any roof in conjunction with which it is desired to use the device.

Other objects appear in the following description wherein the invention is set forth in detail.

To the exact construction in which it is shown and described the invention is not to be restricted. The right is reserved to make such changes or alterations as the actual reduction to practice may suggest in so far as such changes or alterations are compatible in spirit with the annexed claims.

The invention is clearly illustrated in the accompanying drawings, in which:

Figure 1 is a longitudinal sectional detail view of one form of the invention.

Fig. 2 is an enlarged sectional detail view of the roof engaging section of the vent pipe.

Fig. 3 is a longitudinal sectional detail view of the upper section of the vent pipe.

Fig. 4 is a longitudinal sectional detail view of a modified form of a roof engaging section of the pipe.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now, more particularly, to the accompanying drawings, there is illustrated a roof 1, of the gable type, which is provided with an opening through which the vent stack projects. Disposed below the opening in the roof and in spaced relation to the roof, is the main section 3 of the said stack, which desirably has its upper end enlarged as at 4, to form an annular supporting shoulder 5 for receiving the lower end of the roof engaging section 6 of the vent pipe. The upper end of the roof engaging section is cut diagonally, as indicated by the numeral 7, so as to conform to the under surface of the slanting roof, while this end is also enlarged, as at 8, to form an annular shoulder 9 on the inner surface of the said section. The enlarged portion of the pipe of the roof engaging section is provided with a series of grooves 9' near the upper diagonal edge 7. It is to be observed that these grooves 9' are just deep enough to form a mark so that this upper section may be cut along the desired groove so as to properly fit the under surface of the roof. The grooves converge toward the lowermost point of the upper edge as indicated in the drawings. The upper section 10 of the vent pipe is passed through the opening and has its lower edge 11 seated on the annular shoulder 9, the extreme upper end being positioned the required distance from the upper surface of the roof. The outer surface of the pipe section 10 is arranged in spaced relation to the inner surface of the enlarged portion 8 of the section 6, for a purpose that is hereinafter disclosed.

In order to assure of the retention of the section 10 in proper position within the en-

larged portion 8, a plate 12 serving as a flashing is employed, and is formed with a central opening 13, while depending from the under surface of the plate at the edge of the opening is a collar 14, which acts as a counter flashing and is designed to be positioned in the space between the section 10 and the enlarged portion 8 of the section 6 subsequent to the arranging of the opening 13 about the section 10. This collar 14 of course engages the inner surface of the enlarged portion 8 of the section 6 and in order to prevent accidental relative movement of the parts, the collar 14 is calked, as at 13 so as to provide an effective joint between the collar and the section 10 and the enlarged portion 8. By this arrangement, water flowing down the roof will not pass through the joint. Heretofore in devices of this character it has been the practice to extend the flashing to the top of the section 10, but by the present construction, a saving of material is made, since it is only necessary to form the flange on the collar and provide space between the sections 6 and 10 for receiving the collar. It is also apparent that by the present construction the parts may be readily and quickly assembled in a short time, this saving of labor being incidental to the practicability of the connection.

In Fig. 4 there is shown a slightly modified form of the invention and in reducing this feature of the invention to practice, it is only necessary to enlarge the lower end of the section 15 which is similar in construction to the section 6 as indicated by the numeral 16. This in effect provides a cup-like extension, which may be readily engaged on the upper end of the adjacent main section 17.

Having described this invention, what is claimed as new and desired to be secured by Letters-Patent, is:

1. A vent pipe fitting for roof connection adapted for concealment below a pitched roof and having an enlarged upper portion in which is received that section of the vent stack projecting above the roof, the said enlarged portion having an inclined upper edge and comprising a plurality of readily separable terminal sections removable to effect a change in the inclination of said upper edge to conform to the pitch of the roof in connection with which the fitting is employed.

2. A vent pipe fitting for roof connection adapted for concealment below a pitched roof and having an enlarged upper portion in which is received that section of the vent stack projecting above the roof, the said enlarged portion having an inclined upper edge and comprising a plurality of terminal sections and readily separable connections between said sections, whereby the angle of inclination of said upper edge may be changed to conform the fitting of the pitch of the roof with which it is employed.

3. A vent pipe fitting for roof connection adapted for concealment below a pitched roof and having an enlarged upper portion into which is received that section of the vent stack projecting above the roof, the said enlarged portion having an inclined upper edge and being formed with a plurality of exterior encircling grooves disposed at angles to each other and to the axis of the fitting, the said grooves converging toward the lowest point of said inclined upper edge.

In testimony whereof I affix my signature.

ENOS E. COAR.