

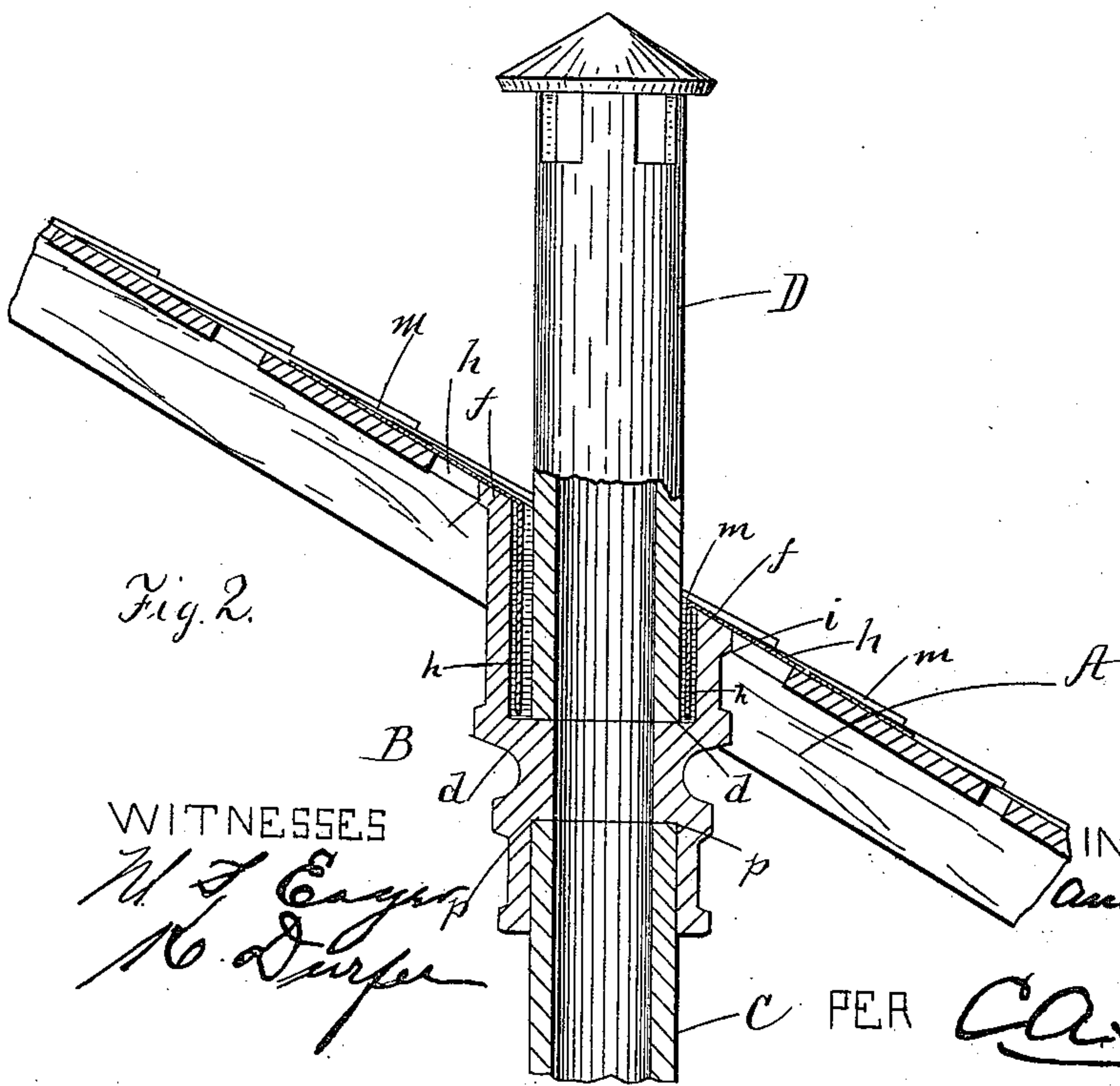
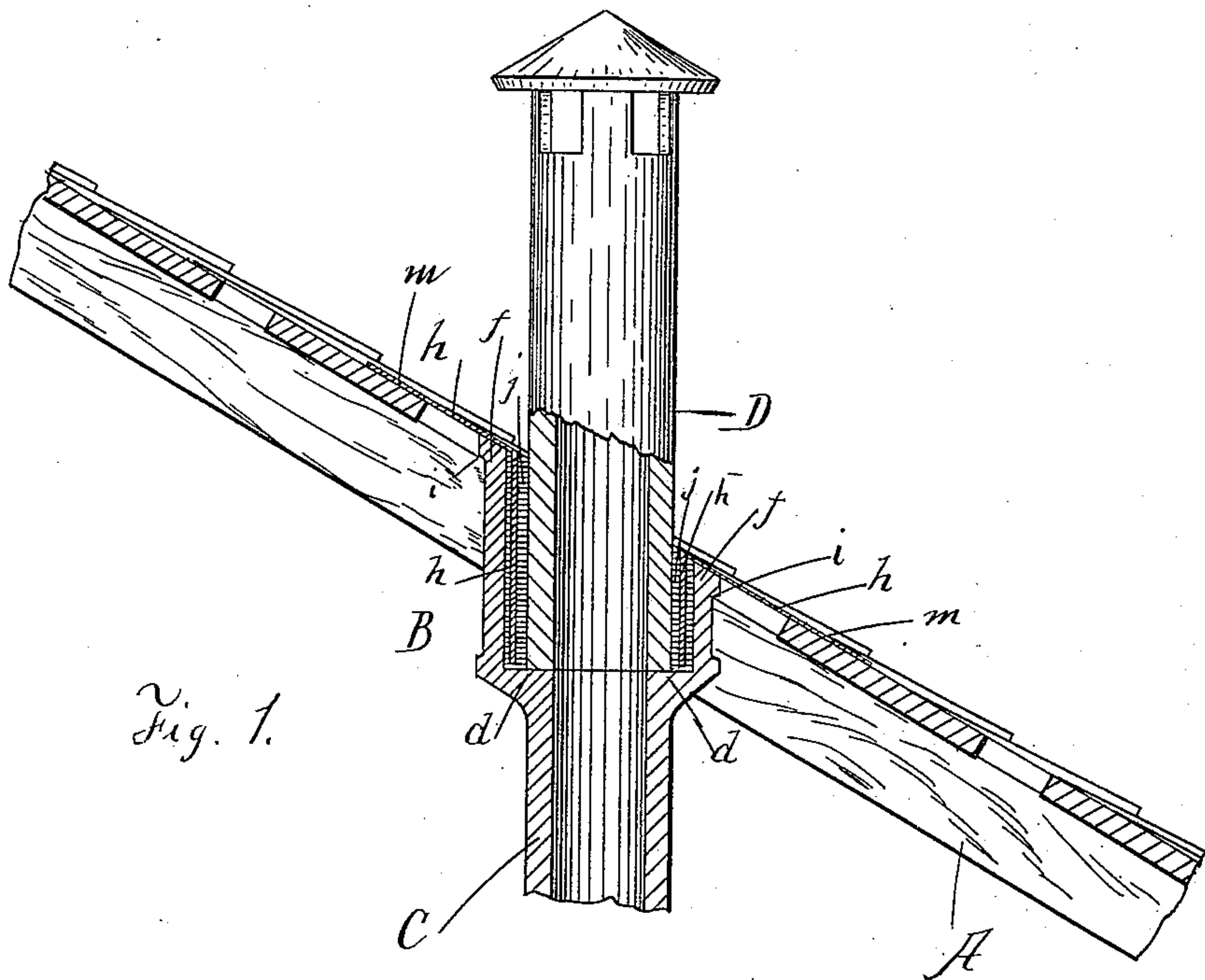
(No Model.)

A. F. CURTIN.

HUB OR COUPLING FOR VENTILATING PIPES.

No. 441,289.

Patented Nov. 25, 1890.



WITNESSES

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ANDREW F. CURTIN, OF MEDFORD, MASSACHUSETTS.

HUB OR COUPLING FOR VENTILATING-PIPES.

SPECIFICATION forming part of Letters Patent No. 441,289, dated November 25, 1890.

Application filed July 28, 1890. Serial No. 360,249. (No model.)

To all whom it may concern:

Be it known that I, ANDREW F. CURTIN, of Medford, in the county of Middlesex, State of Massachusetts, have invented certain new and
5 useful Improvements in Hubs or Couplings for Soil-Ventilation Pipes, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention apper-
10 tains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are sectional elevations showing forms of my improved coupling in
15 use.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to a hub
20 adapted to be employed in jointing soil-ventilation pipes where they pass through the roof of a building; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this
25 character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following
30 explanation.

In the drawings, A represents the roof of a building, and B the hub, considered as a whole.

In Fig. 1 the hub is shown as formed at one end of a section C of pipe and integral therewith. Said hub consists of an enlargement
35 of the pipe C, forming an annular shoulder *d*, upon which the companion pipe-section D rests, said section being the portion of the pipe which projects beyond the roof.

40 The mouth of the hub is beveled or inclined at *f* to conform to the pitch of the roof H, and an annular flange *i* is formed around said mouth.

In adjusting my improved hub the opening
45 is formed in the roof in the usual manner and

the hub disposed therein. The "flashing" *h* is laid onto the roof around the opening and turned inward into said hub around the pipe D, which is dropped therein and rests on the shoulder *d*, as described. Molten lead *j* is
50 then run into the hub around said pipe and the same is calked in the usual manner. A perfectly tight joint is thus formed and the shingles *m* can be laid onto the flashing close to the pipe D.

As ordinarily constructed, the mouth of the hub is at right angles to the axial line of the pipe, one portion thereof necessarily projecting above the roof. This renders it exceedingly difficult to bend or arrange the flashing
60 around said hub and the joint between the hub and the roof easily becomes leaky. My invention overcomes this objection. The flashing, being turned into the pipe, thoroughly protects that portion of the roof.

In Fig. 2 the hub is formed double—that is, with shoulders *p* therein, against which the pipe-section C rests when inserted in said hub. This form enables short sections of
70 pipe to be employed.

Having thus explained my invention, what I claim is—

1. The hub B, provided with the shoulder *d* and beveled mouth *f*, substantially as and for the purpose set forth.

2. A double hub for the purposes specified, provided interiorly with annular shoulders for engaging the pipe-sections, and having one of its mouths beveled or inclined to conform to the pitch of the roof, substantially as
80 set forth.

3. The double hub B, provided with the shoulders *d p*, inclined mouth *f*, and annular stiffening-flange *i* around said mouth, substantially as described.

ANDREW F. CURTIN.

Witnesses:

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