

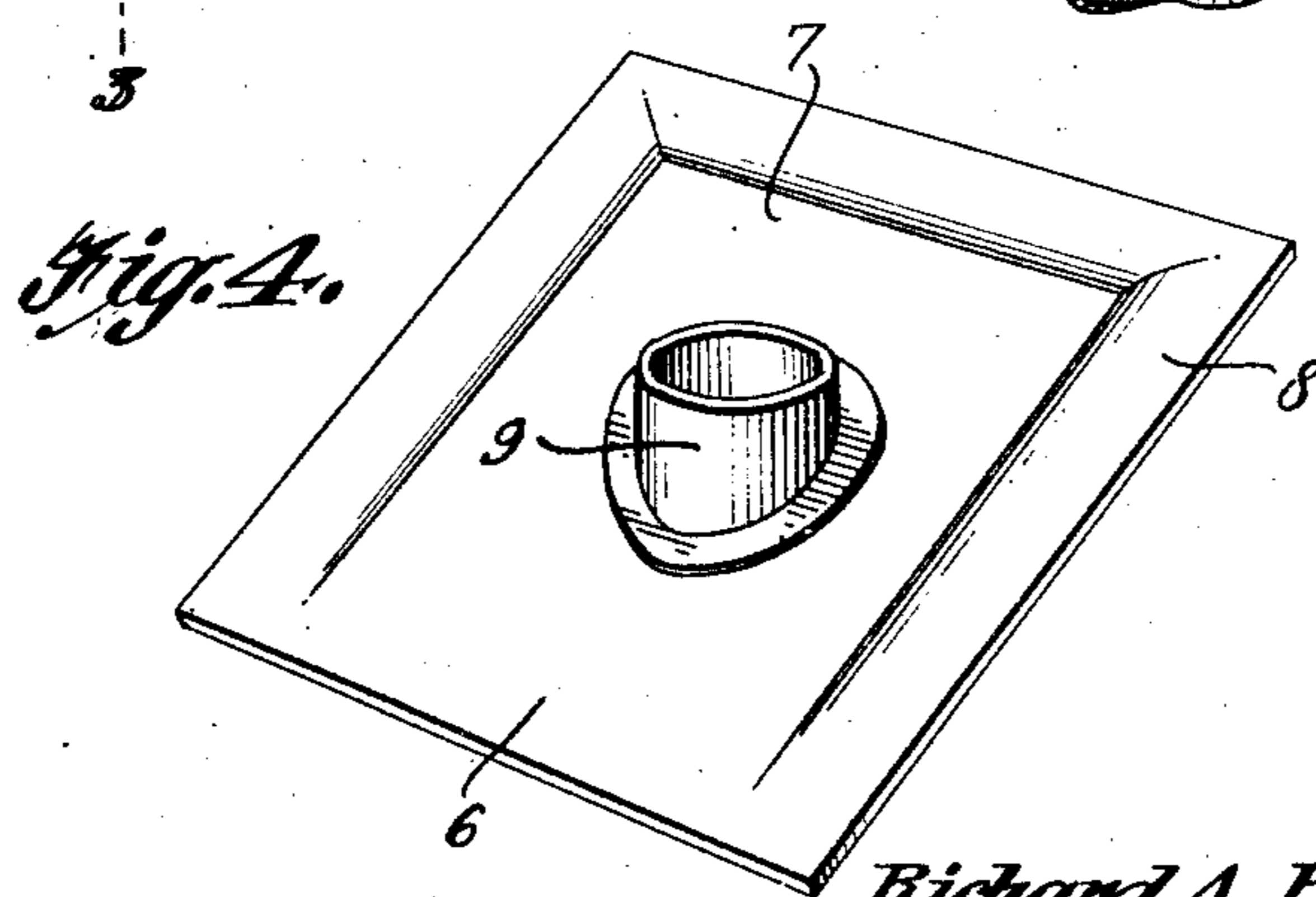
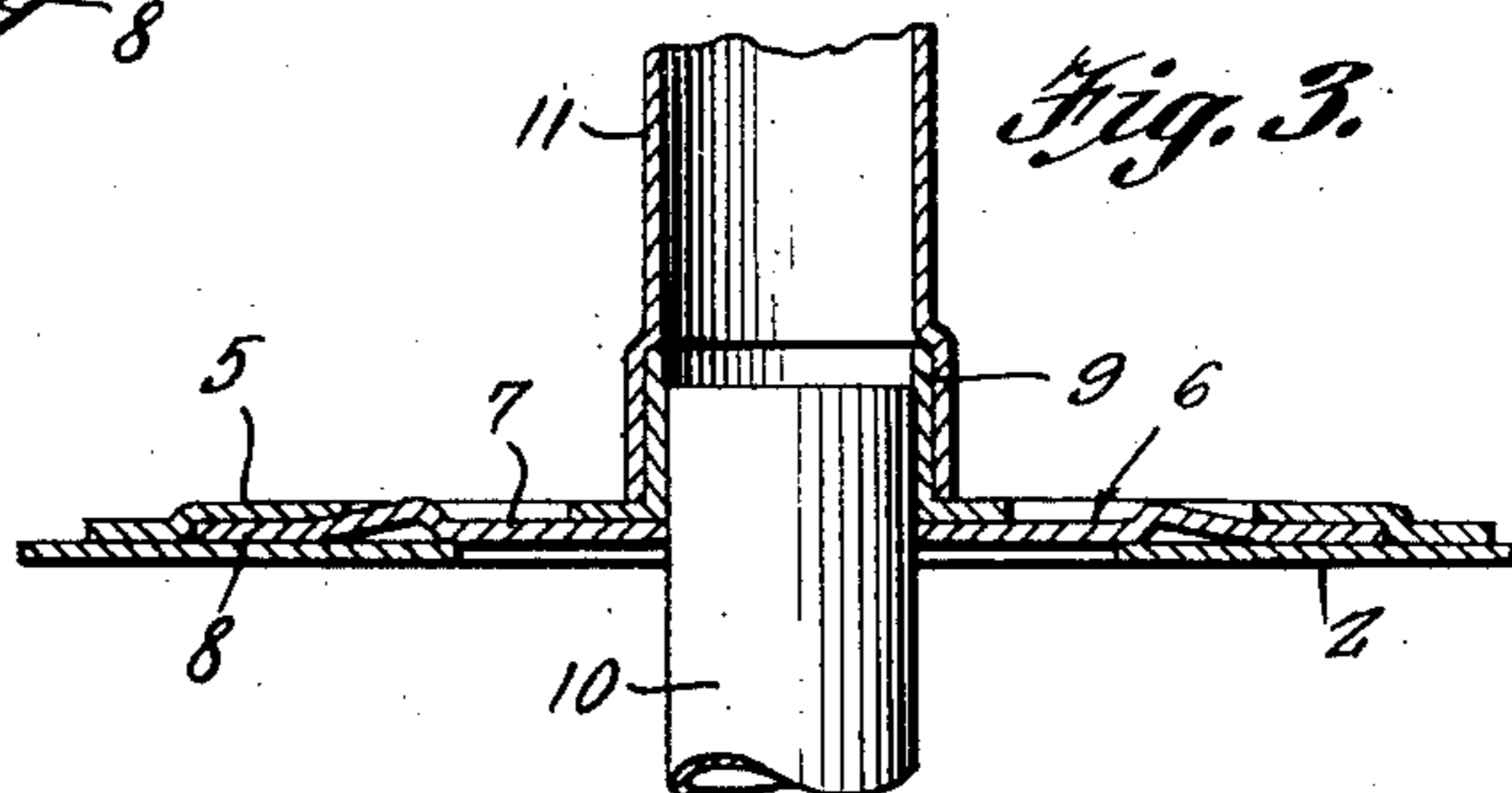
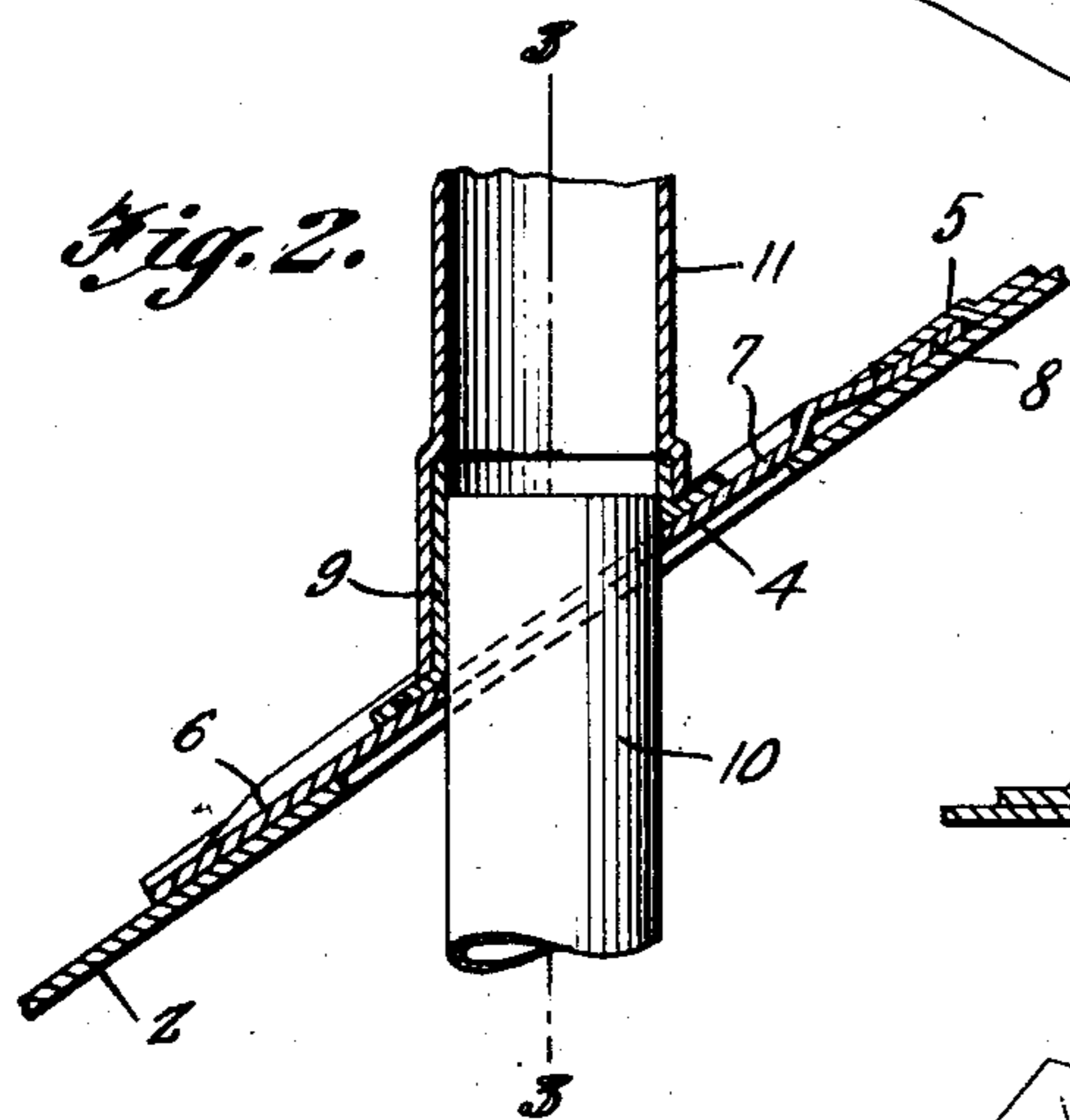
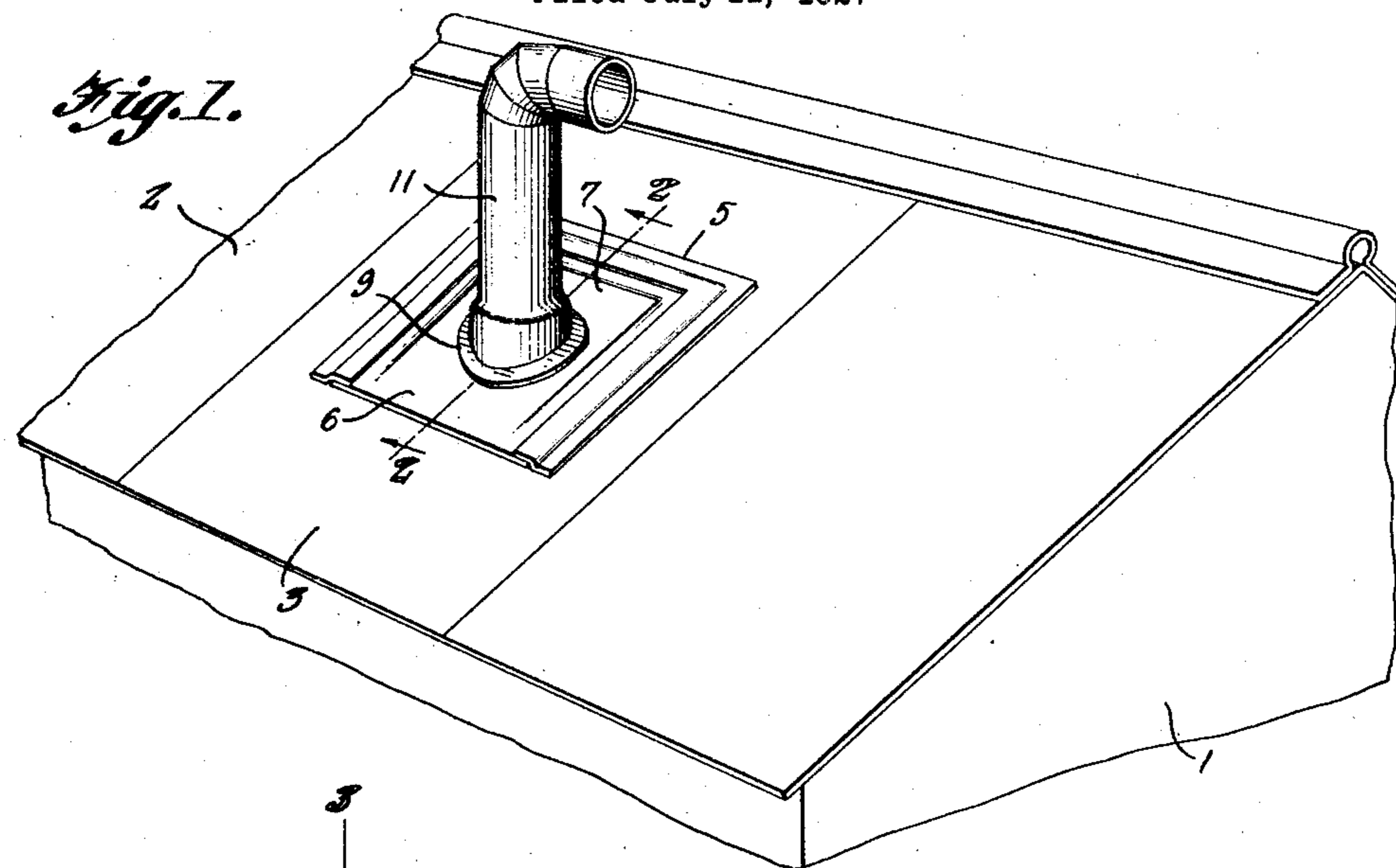
Sept. 4, 1928.

1,683,548

R. A. HUGHEY

PIPE COLLAR

Filed July 11, 1927



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WITNESS:

Richard A. Hughey, INVENTOR

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UNITED STATES PATENT OFFICE.

RICHARD A. HUGHEY, OF SPROTT, ALABAMA.

PIPE COLLAR.

Application filed July 11, 1927. Serial No. 204,989.

My present invention has reference to a roof attachment, and is designed to provide a means for directing and supporting smoke pipes through the metal roof of a building and to afford a water tight joint between such pipes and roof.

A further object is the provision of an attachment for this purpose that is preferably in the nature of a strip of metal that forms one of the sheets of a roof, the said strip being formed with an opening surrounded, at its sides and at its top portion by a continuous guide flange, the said guide flange receiving therein a plate having an opening surrounded by an upstanding collar which receives therein the top of the smoke pipe of a stove arranged in the building and which likewise receives thereover a smoke pipe extension or cowl, the plate and the flange member being soldered together, and the flange member being soldered to the strip so as to effect a water tight joint between these members.

To the attainment of the above broadly-recited objects, the improvement also resides in certain other novel features of construction set forth in the following description and pointed out with particularity in the claims:

In the drawings:

Figure 1 is a perspective view of the means for sealing the joints of roof pipes in accordance with this invention.

Figure 2 is a sectional view approximately on the line 2—2 of Figure 1.

Figure 3 is a sectional view approximately on the line 3—3 of Figure 2.

Figure 4 is a perspective view of the collar carrying plate.

In the drawings the numeral 1 designates a building having an inclined or peaked roof. The roof is preferably constructed of metal sheets 2, and one of these sheets or strips is, for distinction indicated by the numeral 3. Of course, the confronting edges of the sheets or strips are sealed in the ordinary manner to provide a water tight joint.

In carrying out my invention the sheet or strip is formed with an opening 4. Soldered or otherwise secured on the outer face of the sheet or strip 3 and disposed to the sides and to the upper portion of the walls provided by the opening 4 there is a continuous substantially U-shaped guide member 5. The guide 5 is formed of metal and may have its joints soldered or the same

may be stamped from a single strip. The guide includes parallel side portions and a connecting top portion which is arranged at a right angle to the sides. The strip constituting the side has its inner edges bent upwardly and extended inwardly for the passage of a plate 6. The plate 6 is of a size to be snugly received in the guide, and after the plate is thus arranged and the stove pipe guided therein in a manner which will presently be described, the outer edge of the plate is soldered to the strip or sheet 3. Preferably, and as disclosed by the drawings, the edges and upper end of the plate 6 are bulged outwardly from the plate proper, so that the central portion of the plate from the outer edge thereof is depressed, as indicated by the numeral 7. The bulged end and edge of the plate provide what I will term flanges 8 which have a tendency to spring away from the plate proper and thereby effect a tight frictional engagement with the inner surfaces of the guide 5.

The plate 6 is formed with an opening that is designed to register with the opening 4, the said opening being round and being surrounded by an upstanding collar 9. This collar receives therein the smoke pipe 10 from the stove, (not shown) and the collar also has arranged thereon a pipe providing a smoke stack 11 and the smoke stack may have on its outer end an elbow or cowl.

The improvement provides a means whereby a smoke pipe from a stove may be easily and effectively directed through the roof of a building and the joint between the smoke stack and the building effectively sealed and rendered water and moisture tight. The improvement, of course, may be in the nature of a flashing for brick or concrete constructions and the simplicity of the construction and the advantages thereof, are all well known to those skilled in the art to which the invention relates so that a more detailed description is not believed necessary.

Having described the invention, I claim:—

1. A roof attachment including a metal sheet designed to be fixedly secured on the roof of a building and said sheet having an opening therethrough, a guide flange on the sheet comprising a substantially U-shaped member having its sides and end portion disposed adjacent the sides and to

the end of the opening nearest the top of roof, a plate received in the guide flanges, and soldered to the sheet, said plate having a smoke pipe receiving opening therethrough and an outstanding collar surrounding said opening.

2. A roof attachment comprising a sheet arranged on and secured to the top of a building, and having an opening there-
10 through, a substantially U-shaped guide flange fixed on the sheet and surrounding the side and upper wall of the

opening, a plate received in the guide flange and having outwardly bulged side and end flanges which frictionally contact with the
15 guide flange and said plate designed to have its outer and free edge soldered to the sheet, said plate having a stove pipe receiving opening therethrough and an out-
20 standing collar surrounding the said open-
ing.

In testimony whereof I affix my signature.

RICHARD A. HUGHEY.