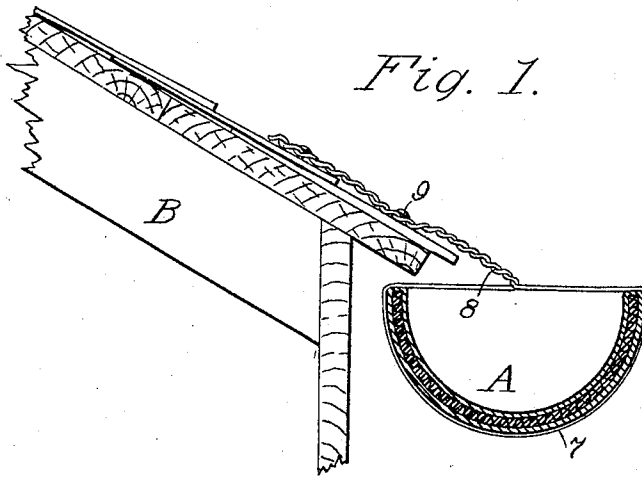
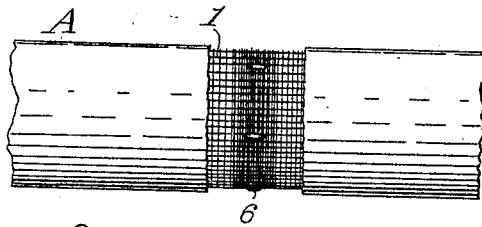


O. W. ANDERSON.
COMPOSITION GUTTER.
APPLICATION FILED APR. 23, 1919.

1,313,154.

Patented Aug. 12, 1919.



Inventor,
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UNITED STATES PATENT OFFICE.

OTIS W. ANDERSON, OF WATERLOO, IOWA, ASSIGNOR OF TWENTY ONE-HUNDREDTHS TO HARRY T. SHEPHERD, TWENTY ONE-HUNDREDTHS TO NICHOLAS J. TIEDEMANN, AND TWENTY ONE-HUNDREDTHS TO WALTER W. HOLMAN, ALL OF WATERLOO, IOWA.

COMPOSITION GUTTER.

1,313,154.

Specification of Letters Patent.

Patented Aug. 12, 1919.

Application filed April 23, 1919. Serial No. 292,099.

To all whom it may concern:

Be it known that I, OTIS W. ANDERSON, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Composition Gutters, of which the following is a specification.

My invention relates to improvements in composition gutters, and the object of my improvement is to construct a gutter for carrying away the discharges from eaves, the gutter being formed from layers of waterproofed material containing a rigid reinforcing body to maintain it in its troughed shape.

This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which Figure 1 is a cross section of my improved composition gutter as supported below the eaves of a building; Fig. 2 is a fragmental elevation of the abutting end parts of two sections of said gutter, with the end parts of the waterproofing material removed to expose the overlapped extremities of the intersticed reinforcements; and Fig. 3 is an enlarged longitudinal section of like abutted and connected end parts of two sections with the joint thereof secured and sealed by waterproofing cementing material.

Similar numerals and characters of reference denote corresponding parts throughout the several views.

In Fig. 1, B denotes a fragmental cross section of a portion of a building including its overhanging eaves, and A denotes my improved composition gutter as supported pendently on the eaves and positioned below the eaves to receive discharges therefrom.

The gutter A is trough shaped and may be of any desired form of cross section, and may be suspended or supported to receive from said eaves in any desired manner, or by any convenient means. I have shown the gutter supported on or under the eaves by wire hangers 7, each hanger consisting of a single wire rod carried conformably around the gutter A with its members bent toward each other across the top of the gut-

ter and twisted together at 8, the twisted parts being then fastened upon the eaves by nails 9.

The composition materials of the gutter may be varied in substance and relative arrangement, the essential features being the combination with a trough of flexible waterproofed material of suitable reinforcing means for stiffening same and maintaining it in its desired shape. The preferred embodiment of my invention consists in placing a sheet of intersticed metal or wire netting 1 between layers of flexible fibrous material 3, such as paper felt. These assembled parts or sheets are passed through a bath of waterproofing substance such as a melted or liquefied bituminous body. This waterproofing substance both fills the interstices of the netting 1 and also cements the fibrous layers 3 thereupon, while exteriorly coating and waterproofing said layers at 4. The combined sheets may then be shaped into troughs A which are afterward cut into sections of suitable length.

Abutting ends of such sections may be firmly connected and sealed together as shown in said Fig. 3. This is done by removing the layers 3 from the abutting end parts of the netting 1 and overlapping the exposed end parts of the netting, a plurality of clips 6 being employed to fasten together said overlapped parts. The joint between the sections is then filled in flush with the waterproof bituminous sealing material 5, which insures a non-leaking joint and a smooth continuous waterproofed surface to the gutter.

A gutter of this reinforced composition will resist deformation and will withstand the action of the elements for an indefinite length of time.

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

1. A conduit formed of layers of fibrous material, an intermediate layer of foraminated material, and a waterproof adhesive filling substance between and cementing the fibrous layers to said intermediate layer.

2. A conduit formed of two alined sec-

tions, each section constructed of layers of fibrous material with an interposed layer of foraminated material which projects therefrom at one end and overlaps a like projecting part of the foraminated layer of the other section, a waterproof filling material in each section between the fibrous material,

and waterproof filling material sealed over, permeating and closing the joint between the sections.

Signed at Waterloo, Iowa, this 10th day of April, 1919.

OTIS W. ANDERSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."