

No. 607,425.

Patented July 19, 1898.

G. F. DROUVÉ.
VALLEY FOR ROOFS.

(Application filed Nov. 17, 1897.)

(No Model.)

Fig. 1.

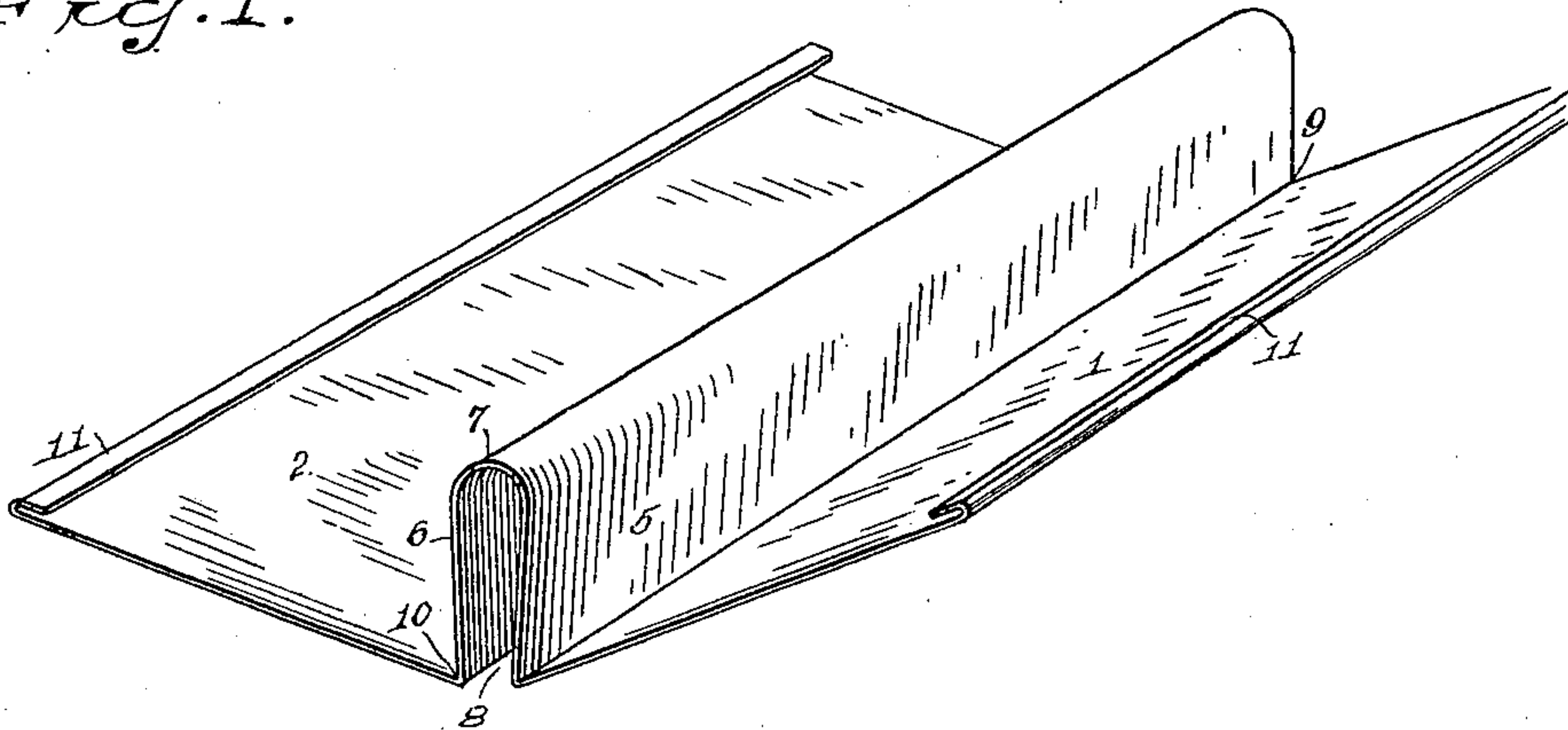


Fig. 2.

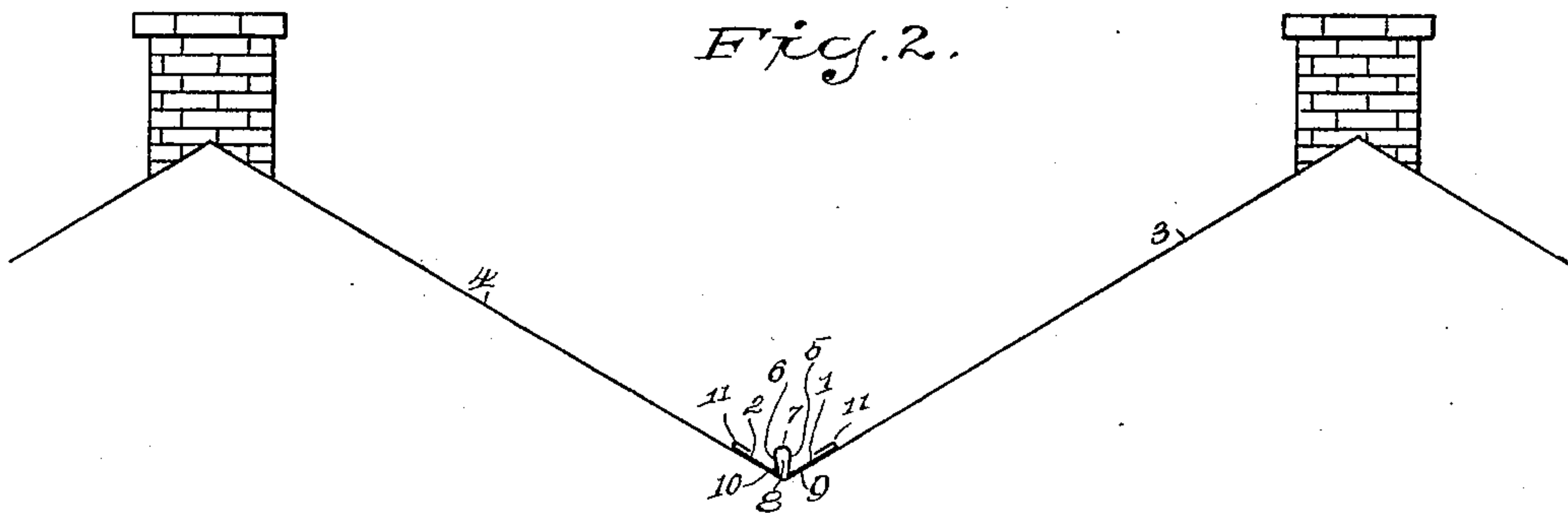


Fig. 3.

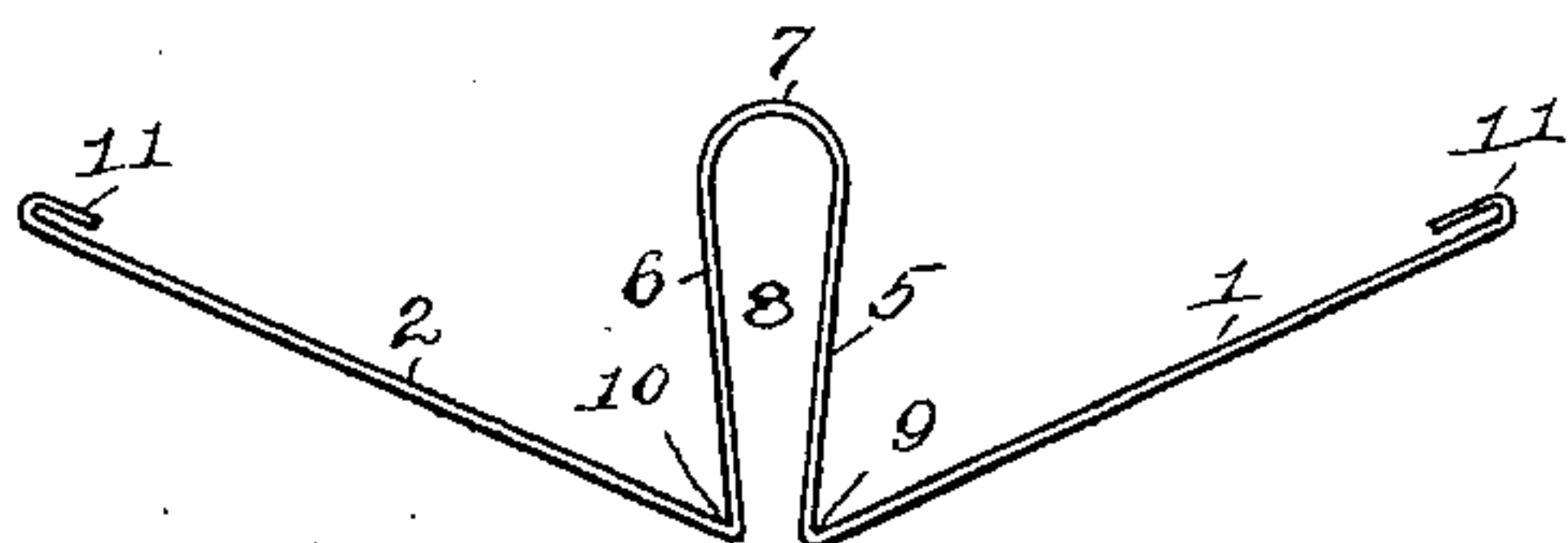
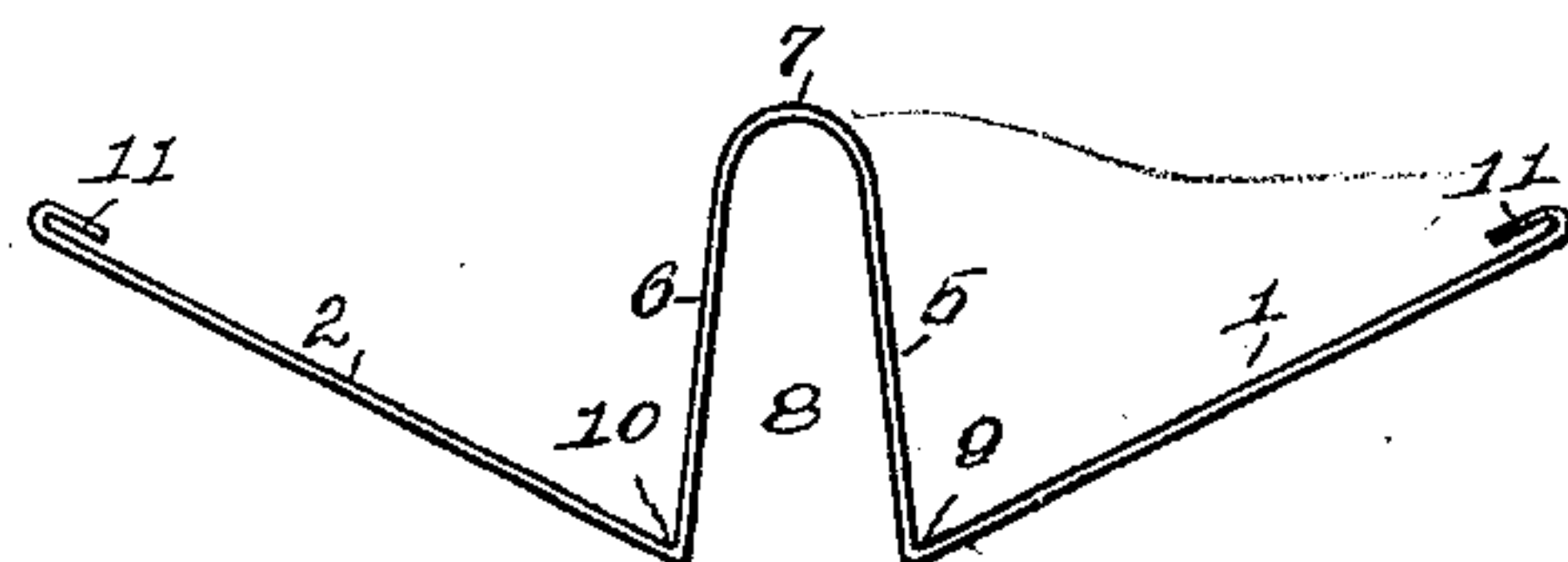


Fig. 4.



WITNESSES

H. F. Lamb
M. J. Keane

INVENTOR

Gerhard F. Drouvé.

By his Atty.

Geo. S. Phillips

UNITED STATES PATENT OFFICE.

GERHARD F. DROUVÉ, OF BRIDGEPORT, CONNECTICUT.

VALLEY FOR ROOFS.

SPECIFICATION forming part of Letters Patent No. 607,425, dated July 19, 1898.

Application filed November 17, 1897. Serial No. 658,785. (No model.)

To all whom it may concern:

Be it known that I, GERHARD F. DROUVÉ, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Valleys for Roofs, of which the following is a specification.

My invention relates to an improvement in roofing-valleys; and it consists in certain details of construction to be more fully set forth in the following specification.

To enable others to understand my invention, reference is had to the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved valley. Fig. 2 is a diagram of the end of two houses, showing the manner of attaching the valley. Fig. 3 is an end view of the valley, showing the position the central elevated portion or housing will assume under expansion. Fig. 4 is a view similar to Fig. 3, showing the effect of contraction.

Its construction and operation are as follows:

The improvement consists in making the valley of a single piece of metal, as shown at Fig. 1. The wings 1 and 2 are bent at the proper angle to conform to the angular construction or pitch of the two roofs 3 and 4. (Shown at Fig. 2.)

The central portion of the valley is elevated an inch or more above the wings, and such raised portion consists of the sides 5 and 6 and the closed crown 7. In the drawings this crown is shown circular; but this is immaterial, as it can assume any form desired. The sides 5 and 6 may be formed at any angle with each other instead of being nearly parallel, as shown, the gist of the invention consisting in forming an upward elevation of the stock in a single piece of metal to form a housing open at the bottom and closed at the top, so as to form the open mouth 8, and this open mouth is placed directly over the meeting angle of the roofs, as shown at Fig. 2. The apexes of the angles 9 and 10, formed by the wings and sides of the said housing, serve as gutters to carry off the water from each of the roofs. This housing also prevents the water from one roof flowing up the opposite roof and under the metal covering thereof, such water being caught by said housing and conveyed from both of said roofs. This U-shaped

central portion will enable the sheet-metal roofing to contract or expand without affecting or disturbing the connection between the two roofs. In Fig. 3, as before mentioned, is shown how it operates under expansion, and in Fig. 4 how it will be affected by contraction. In either case it will be observed that the intersection of the roofs is fully protected at all times.

The hook portions or laps 11 of the wings are adapted to unite with hook portions or laps of the rest of the sheet-metal roofing. (Not shown.)

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

1. The herein-described improvement in valleys for roofs which consists in forming an indentation in the body of a metal sheet and in the under surface thereof, so as to force the metal in the form of a housing above the upper surface to protect the intersection of two roofs, the remaining portion of the sheet forming wings adapted to rest on said roofs, the intersection of the said wings and sides of the housing forming gutters or channels for conveying off the water, the sides of said housing adapted to approach or recede from each other to compensate for contraction or expansion, for the purpose set forth.

2. The herein-described improved valley constructed of a single piece of metal, an indentation made in the under surface thereof, so as to force the metal in the form of a housing above the upper surface so that the open mouth of such housing will span the intersection of two roofs, the remaining portion of the metal sheet forming wings on each side of said housing adapted to rest on said roofs, the intersection of the said wings and vertical sides of said housing forming gutters or channels for conveying off the water, the vertical sides of said housing adapted to approach or recede from each other to compensate for contraction or expansion, for the purpose set forth.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 23d day of October, A. D. 1897.

GERHARD F. DROUVÉ.

Witnesses:

JOHN B. CLAPP,
WM. E. DISBROW.