No. 730,030. PATENTED JUNE 2, 1903.

H. F. LANGEWISCHE.

BUILDING ROOF.

APPLICATION FILED SEPT. 15, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

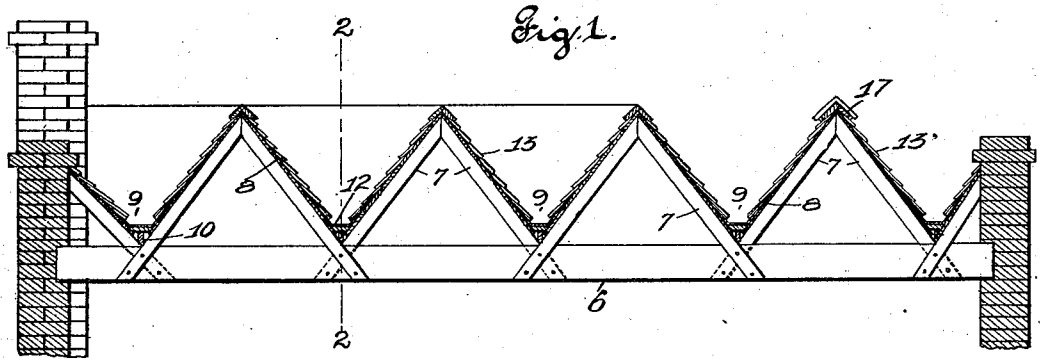


Fig. 2.

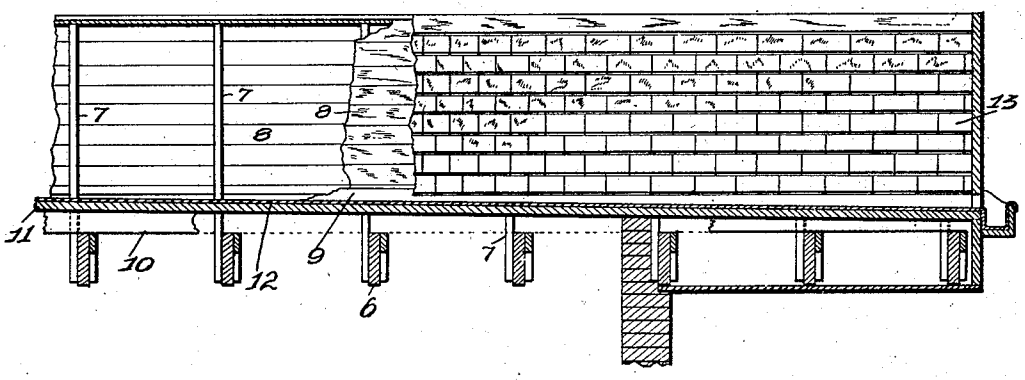
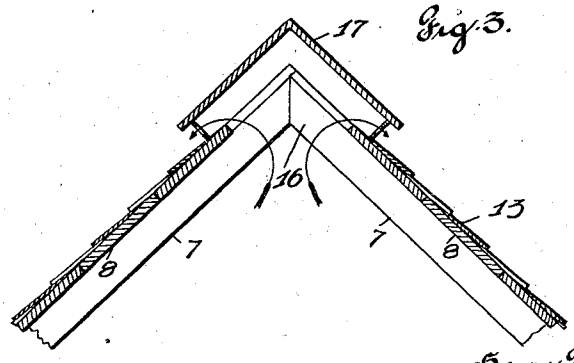


Fig. 3.



Witnesses

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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 4.

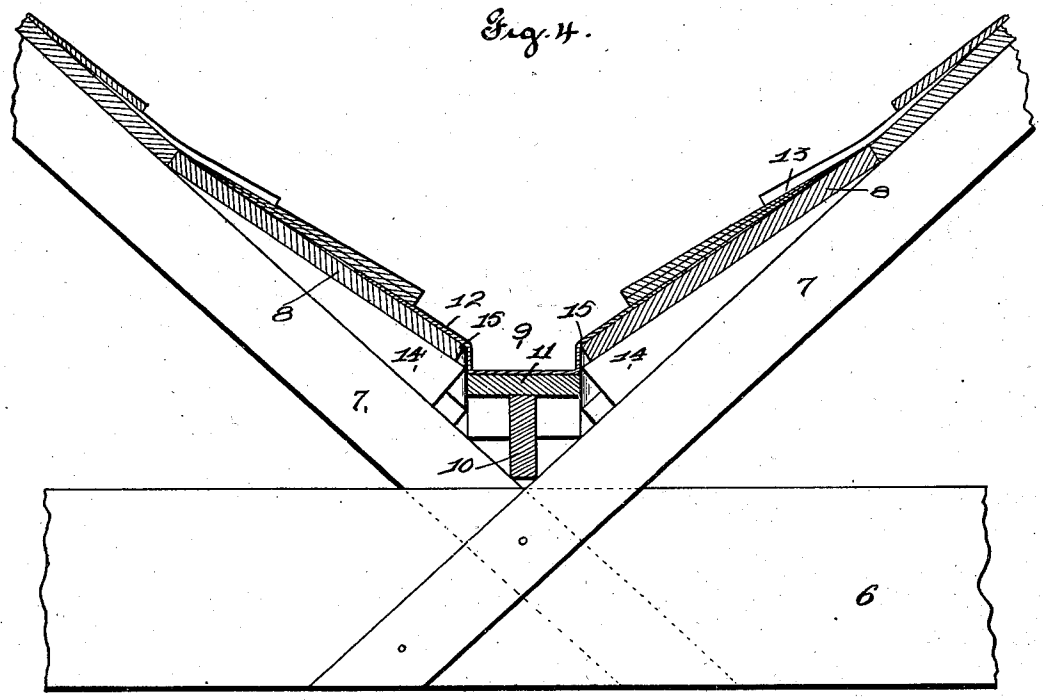
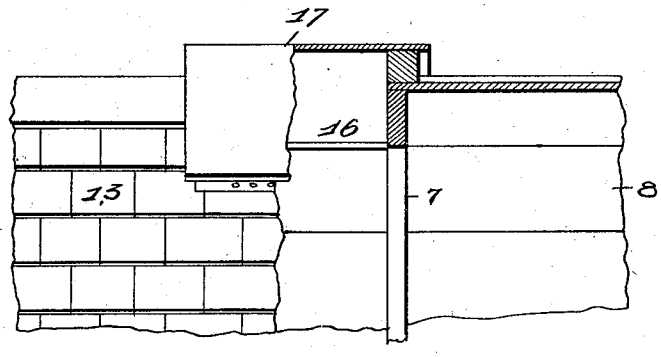


Fig. 5.



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No. 730,030. Patented June 2, 1903.

UNITED STATES PATENT OFFICE.

HENRY F. LANGEWISCHE, OF ST. LOUIS, MISSOURI.

BUILDING-ROOF.

SPECIFICATION forming part of Letters Patent No. 730,030, dated June 2, 1903.

Application filed September 15, 1902. Serial No. 123,474. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. LANGEWISCHE, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Building-Roofs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to building-roofs; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

The object of this invention is to construct a building-roof with a plurality of small shingle or tile-covered hips the apices of which are arranged on a level and which are all located between the two usual vertical walls. This arrangement of roof is to be used in place of the common or ordinary flat composition roofs.

Another object of this invention is to provide a more cool and cheap roof and of a more serviceable construction.

Figure 1 is a sectional view taken through the plurality of hips. Fig. 2 is a sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a detail vertical sectional view through a portion of one of the hips, showing the vent or air-outlet. Fig. 4 is a vertical sectional view of a portion of the hips, showing the gutter. Fig. 5 is a side view of a portion of one of the hips with a part in section, showing the construction of the air-vent or outlet.

In the construction of the device as shown I provide a roof with the ordinary joists 6, arranged in the usual manner, and to the same are fastened the rafters 7, forming the frame for the hips, and upon said rafters are nailed the usual sheeting 8. At the base of the hips are formed gutters 9, constructed by first placing a strip 10, wedge-shaped or tapered in form, (see Fig. 2,) and upon the same is securely fastened a horizontal strip 11, and upon said strip is also placed a sheeting of metal 12, the sides of said sheeting extending over a portion of the sheeting 8.

Upon the sheeting 8 are placed the usual shingles, slate, or tile 13, the lower tier overlapping the edge of the metal sheeting, thereby forming a perfect water-tight joint.

To arrange the gutter with sufficient slope by which to drain the roof properly, wedges 14 are placed upon the rafters, differing in size, the largest being at one side of the roof and the smallest at the other. This is for the purpose of allowing the edges 15 of the sheeting to be in alinement with the gutter from end to end.

To provide proper ventilation within the roof, I provide an opening 16 in the apex of the hips, and is covered by a suitable cap 17. This ventilator is preferably placed upon the roof in a location found most serviceable. It has been found by experience that a roof of this construction gives better results and is more durable than the common composition roofs, is cheaper in construction, and will not retain the heat of the sun.

I claim—

1. A roof of the class described, having a plurality of small hips formed and supported by crossed rafters secured to joists and arranged between two vertical walls, substantially as described.

2. A building-roof having a plurality of small covered hips formed by crossed rafters secured to joists and arranged between two vertical walls, and pitched gutters located in the valleys of the hips and formed by the tapered strip 10 and horizontal strip 11, substantially as specified.

3. A roof of the class described, having a plurality of hips formed by rafters secured to the roof or ceiling joists, said rafters being covered with roofing material, pitched gutters located at the base of said hips, and formed by strips and sheeting and pitched by wedges secured to the rafters, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY F. LANGEWISCHE.

Witnesses:
ALFRED A. EICKS,
M. G. IRION.