(No Model.)

J. F. STUCKERT.

PLATE ROOFING.

No. 332,220. Patented Dec. 8, 1885.

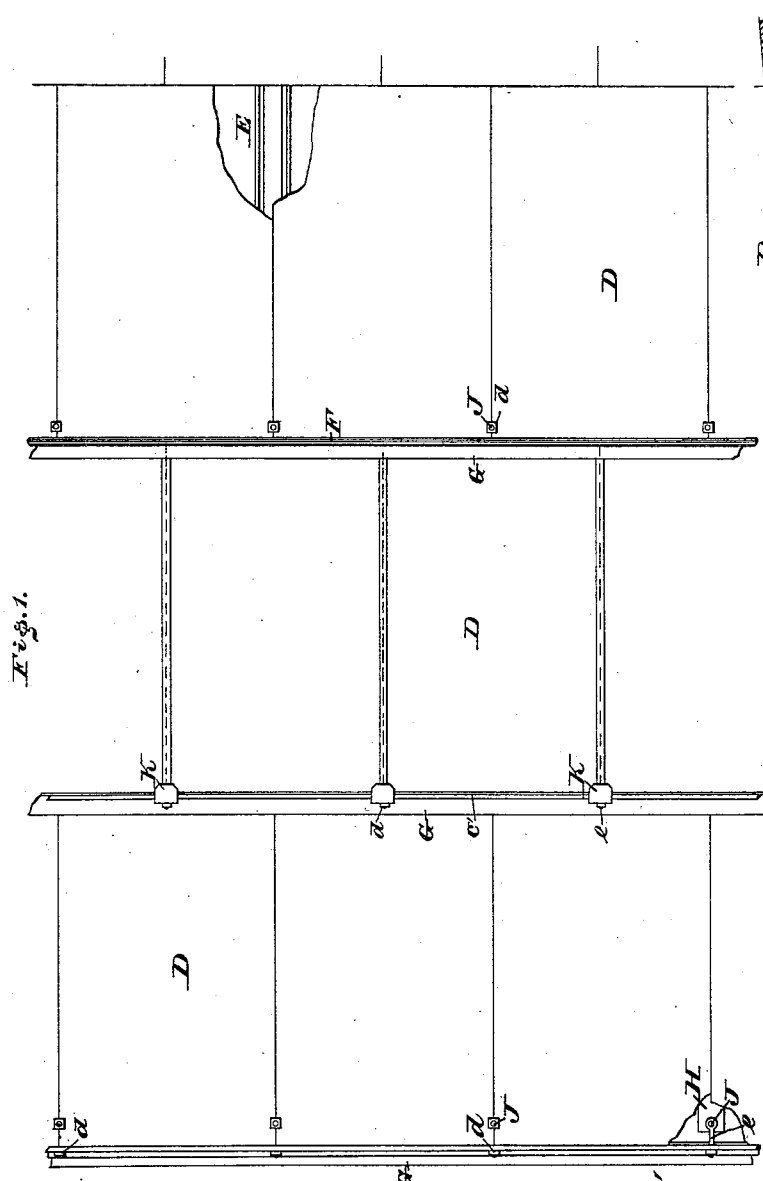


Fig. 1.

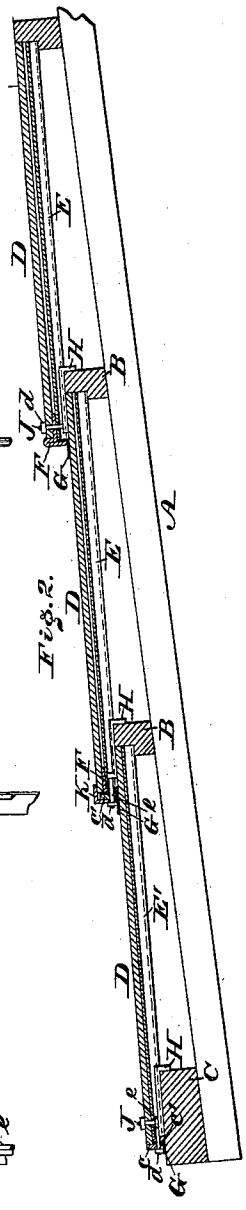


Fig. 2.

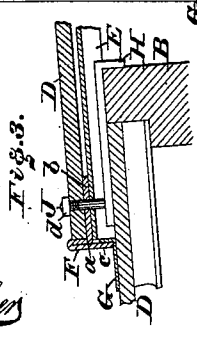


Fig. 3.

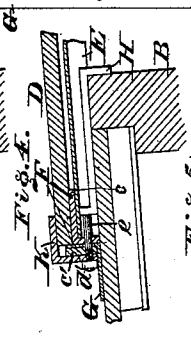


Fig. 4.

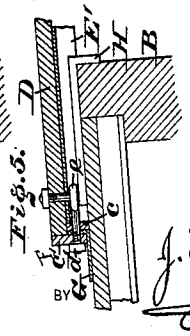


Fig. 5.

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PLATE-ROOFING.

SPECIFICATION forming part of Letters Patent No. 332,220, dated December 8, 1885.

Application filed December 20, 1884. Serial No. 150,813. (No model.)

To all whom it may concern:

Be it known that I, J. FRANKLIN STUCKERT, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Plate-Roofing, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents a plan view of a portion of a roof embodying my invention. Fig. 2 represents a longitudinal vertical section thereof. Fig. 3 is an enlarged view of a portion of Fig. 2. Figs. 4 and 5 are enlarged views of modified forms of my improvement, shown also in Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of certain improvements in roofing, whereby the same is strong, durable, and tight, and means are provided for conducting water and moisture to the main gutter.

Referring to the drawings, A represents the main rafters of the roof, and B represents the purlin-rafters, C the curb, and D the roofing-plates, the latter being glass, slate, or other suitable material.

E E′ represent bearing-pieces, which extend parallel with the rafters A, and are connected with the purlin-rafters B. The bearing-pieces E′ rest at one end on the adjacent purlin-rafter, and at the other end on the curb C; but in either case the plates D are superimposed upon the bearing-pieces E E′, and so disposed that they break joints therewith.

F represents flashings, composed, preferably, of metal, either of a single piece or of several parts, and formed so as to be adapted to support the lower ends of the plates D, the said flashings being secured to the bearing-pieces by means of bolts and other suitable fastenings.

The various forms of construction of the said flashings shown in Fig. 2 are equally, if not principally, designed for hip-roofs of ordinary pitch.

In Fig. 3 the flashing is of angular form, having a shoulder, *a*, on which the plates D are rested, one limb, *b*, of the flashing passing between the plates D and bearing-pieces E, and the other limb, *c*, bearing against the ends of said bearing-pieces. Interposed between the limb *c* and ends of the bearing-pieces E are strips G, of lead, which are bent around said limb *c*, so as to extend parallel with the plates D, and adapted to be pressed tightly against said plates, thus closing the joints between the flashings and roofing-plates and preventing the entrance of air thereat.

In order to hold the flashing in position, I employ hooks H, which depend from the purlin-rafters, and have connected with them screws J, (shown only in Figs. 3 and 5, but which are equally applicable to modified construction shown in Fig. 4,) which latter pass through the bearing-pieces E, the limb *b* of the flashing, or the spaces between adjacent roofing-plates or openings in the latter, and their outer ends have nuts *d*, which tighten against the roofing-plates. By these means the bearing-pieces, flashings, and roofing-plates are firmly connected and secured.

In Fig. 4 the flashing F is made of two parts, *c* and *c′*, the upper part, *c*, being of angular form and resting against the ends of the bearing-pieces, and below said part is placed *c′*, consisting of a strip of greater width, on which the roofing-plates are supported.

As shown in Fig. 4, screws *e* project from the hooks H at an angle to the screws J, and pass through the strips *c′*, whereby by means of the nuts *d′* the strips G are firmly sustained. On the screws *e* are fitted hooks K, as shown in Figs. 1, 2, and 4, which overlap the ends of the roofing-plates, and serve to prevent outward displacement of the latter.

In Fig. 4 the leaden strips G are secured for a portion of their length between the two parts of the flashing—viz., the upper bent portion and the lower strips, *c′*.

In Fig. 5 the flashing is shown of two strips, *c c′*, of different widths, the narrow strip being next to the ends of the bearing-pieces E′, and the wide strip having the roofing-plates resting thereon.

In Fig. 5 eyebolts *e* are passed through the plates *c c′* and provided with nuts *d*, which tighten against the under side of the latter. The eyes of said bolts are fitted on the screws J, and thus the flashing and the roofing-plates are strongly supported.

It will be seen that I produce a strong, light, and inexpensive roof, and prevent leakage thereof by the bearing-pieces E, which, as it will be seen, have their lower ends set out from

and overhanging the upper ends of the adjacent roofing-plates, so that water and moisture are directed to the outer surface of the latter, and thus conveyed to the gutter of the building, said bearing-pieces being preferably channeled or guttered for evident purposes.

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

1. A roofing composed of plates and having bearing-pieces connected with the frame or rafters, and flashings composed of angular parts having one limb thereof in contact with the lower edge of the plates, and another limb rigidly secured to the bearing-pieces by fastening devices separate from the said flashings, substantially as described.

2. Roofing-plates and the frame or rafters, in combination with bearing-pieces E, flashings F, hooks H, and fastening-screw, substantially as and for the purpose set forth.

3. A roof provided with flashings, having strips of lead or other soft material interposed between the same and the roofing-plates, substantially as and for the purpose set forth.

4. A roofing composed of plates and having bearing-pieces connected with the rafters, and flashings having a part thereof in contact with the lower edge of the plates, and another part rigidly secured to the bearing-pieces by fastening devices separate from the said flashings, substantially as described.

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