

No. 742,589.

PATENTED OCT. 27, 1903.

B. G. CASLER.
FELT OR FABRIC ROOFING.

APPLICATION FILED FEB. 21, 1903.

NO MODEL.

Fig. 1.

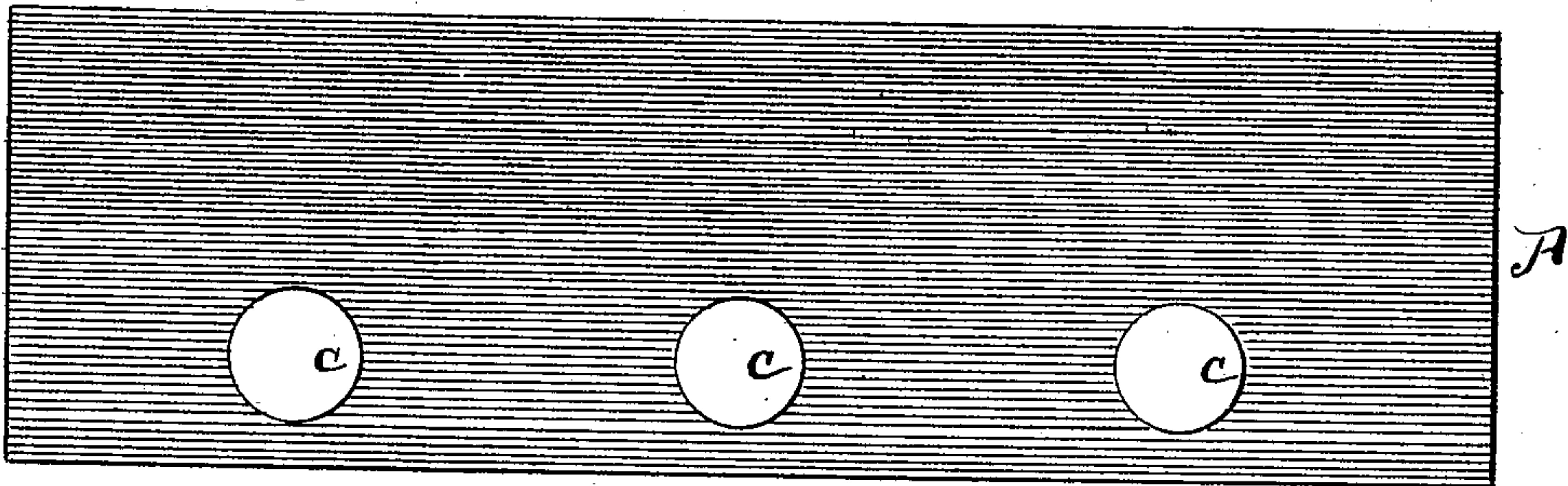


Fig. 2.

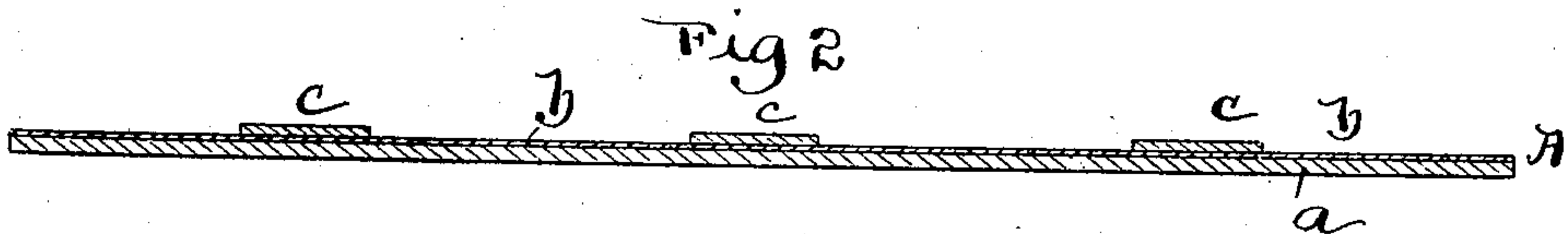


Fig. 3.

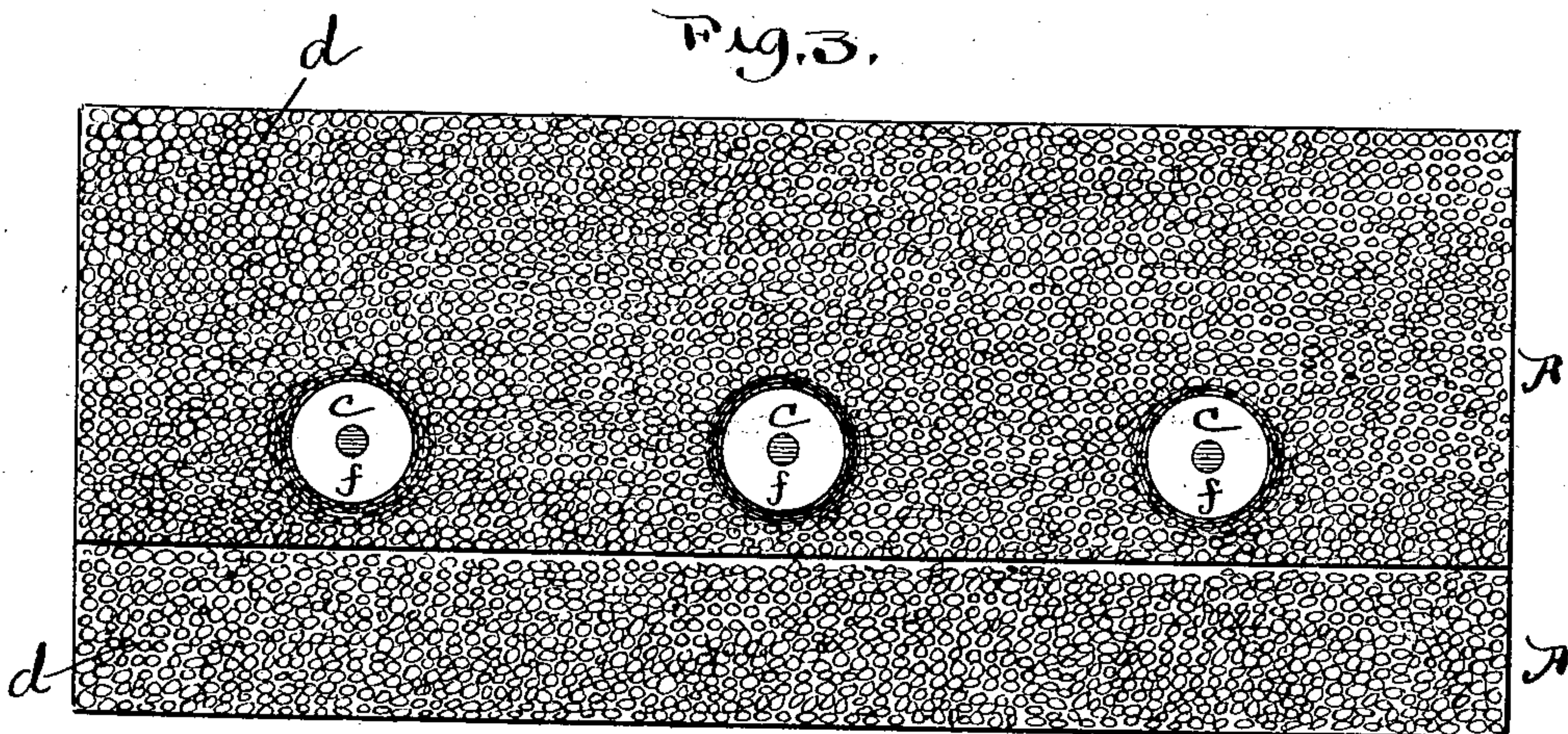


Fig. 4.

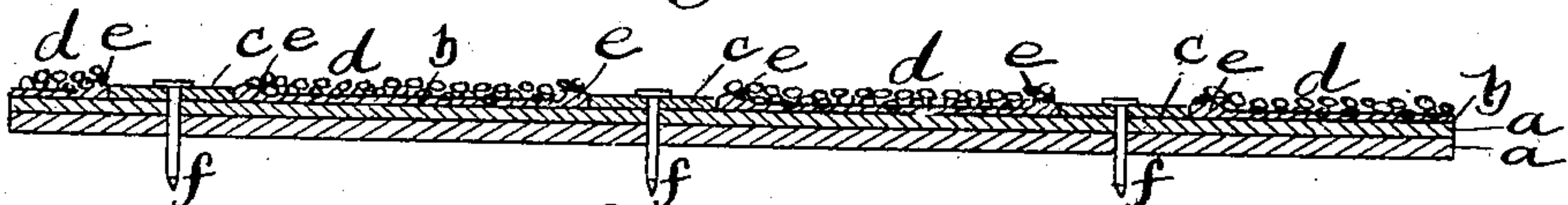


Fig. 5.

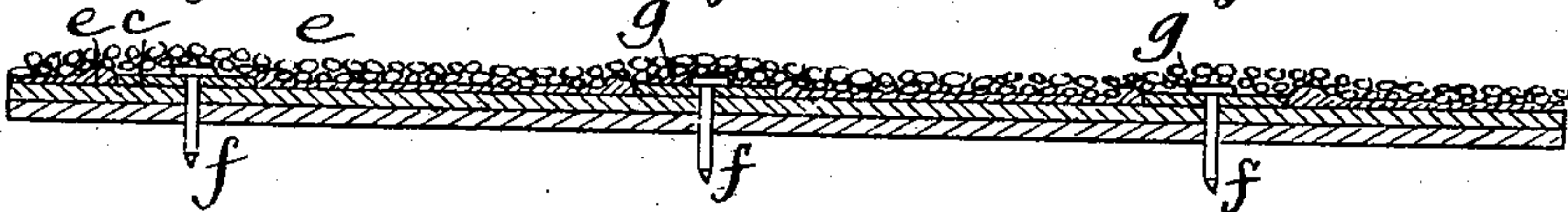
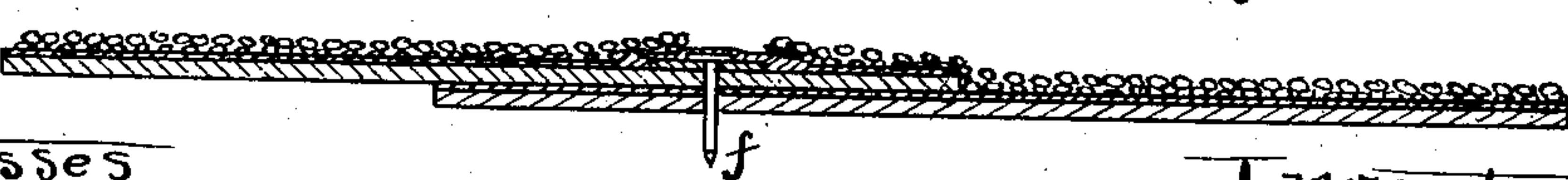


Fig. 6.



Witnesses
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UNITED STATES PATENT OFFICE.

BENJAMIN G. CASLER, OF CHICAGO, ILLINOIS, ASSIGNOR TO WEST COAST COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

FELT OR FABRIC ROOFING.

SPECIFICATION forming part of Letters Patent No. 742,589, dated October 27, 1903.

Application filed February 21, 1903. Serial No. 144,460. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN G. CASLER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Felt or Fabric Roofing, of which the following is a specification.

The invention relates more especially to that type of felt or fabric roofing which is prepared ready for laying on the roof. It is the custom and practice to secure the overlap between the strips of the felt or fabric roofing by nails driven through the overlapping edges of the two strips and into the boarding of the roof. This practice is open to the objection that the felt or fabric around the head of the nail deteriorates, owing to the action of the rust, and allows the head of the nail to pull through the fabric, which permits the upper ply to separate from the lower ply of the felt or fabric, causing the roof to leak and become non-serviceable.

The object of the present invention is to overcome this objection of the nails pulling through the felt or fabric and to furnish a safeguard and protection for the nail and the felt or fabric at the point of driving the nail by which the nails will securely hold the lapping edges of the fabric in place.

The invention consists in the features of construction and combination of parts hereinafter described and claimed.

In the drawings, Figure 1 is a plan view of the end of a strip of roofing felt or fabric having the device of the invention applied thereto; Fig. 2, a sectional elevation through the fabric and the device of the invention; Fig. 3, a top or plan view of the felt or fabric roofing of the invention in its complete form, showing the edge of one section overlapping the edge of the adjacent section; Fig. 4, a sectional elevation of the arrangement shown in Fig. 3 with the tabs or disks constituting the safeguard for the protection of the nails and the felt or fabric non-coated; Fig. 5, a similar view to Fig. 4 with the tabs or disks covered by a coating and a layer of gravel; and Fig. 6, a cross-section of the arrangement shown in Fig. 3, showing the tab or disk constituting the safeguard or protec-

tor for the nails and fabric coated and without the layer of gravel.

The felt or fabric A can be of any of the usual and well-known forms of roofing felts or fabrics having a layer *a* of felt, fabric, or other material and a coating *b*, of tar, pitch, or other substance. Along one edge of each strip of the coated felt or fabric and before the application of the layer of gravel *d* or other material to the coating are placed disks *c*, of cardboard or other suitable fibrous material through which a nail or other fastening device can be readily driven. These tabs or disks *c* are placed at the requisite distance apart for the driving of the nails. The tabs or disks can be placed lightly on the coating and will be held in place by the coating and with the addition of the layer of gravel *d* to the coating and the pressing of the gravel into the coating, so as to compact the felt or fabric, the coating, and the gravel into a complete whole. Owing to the fact that the top faces of the tabs or disks do not have any coating thereon the tabs or disks will be forced tightly against the surface of the felt or fabric, leaving above each disk a depression or concavity surrounded by a rim *e* of the coating and the gravel, which furnishes a receptacle for the coating by which the head of the nail will be protected against atmospheric influences.

The completed strips of felt or fabric roofing ready for laying are laid, as usual, by overlapping the edge of one strip onto the edge of the adjoining strip, and when the strips are thus laid nails *f* are driven through the tabs or disks and the overlapping edges of the fabric, after which the depression or receptacle above each tab or disk is covered by a coating *g* of any suitable material, with the addition, if so desired, of a layer of gravel, as shown in Fig. 5, Fig. 6 showing the coating without the gravel and Fig. 4 showing the condition of the parts before the application of the coating over the surface of the tab or disk and the nail-head. The coating should be of a nature which will furnish a protection to the head of the nail against moisture and atmospheric changes and prevent the head of the nail from rusting and affecting the felt

or fabric adjacent thereto so as to allow the nail-head to draw through the felt or fabric. The tabs or disks furnish a guide for driving the nails, so that when nailed down the edges of adjoining strips will be held at a uniform distance apart, thus insuring an equality in the nailing of the edges the whole length of the strip, giving a stronger union for the overlap, and at the same time the tabs or disks furnish a protection for the under side of the head of the nail, which, in connection with the protecting coating within the depression or receptacle over each tab or disk, prevents moisture from trickling and rusting the nail and also protects the felt or fabric adjacent to the head of the nail against moisture and atmospheric changes, with the final result of a longer life for the roofing, less labor, and a greater security against leakage and impairment of the overlapping joint.

What I regard as new, and desire to secure by Letters Patent, is—

1. A felt or fabric roofing having its edge provided with tabs or disks pressed closely against the face of the fabric and secured thereto with a depression above each tab or disk adapted to receive a coating within the depression and form with the tab or disk a safeguard or protector for the fastening-nails and the surrounding material of the roofing, substantially as described.

2. A felt or fabric roofing having its edge provided with tabs or disks pressed closely against the face of the fabric with a depression above each tab or disk; and a coating entered into the depression and forming with the tab or disk a safeguard or protector for the fastening-nails and the surrounding material of the roofing, substantially as described.

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