

F. E. SMITH.
 WATERPROOF LOCK SEAM FOR ROOFING PAPER.
 APPLICATION FILED MAY 10, 1909.

984,860.

Patented Feb. 21, 1911.

Fig. 1.

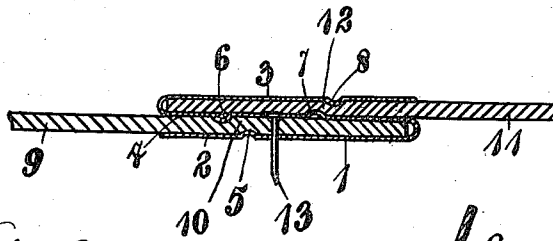


Fig. 2.

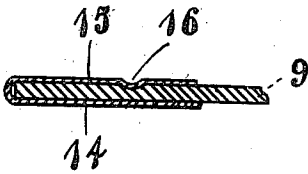


Fig. 3.

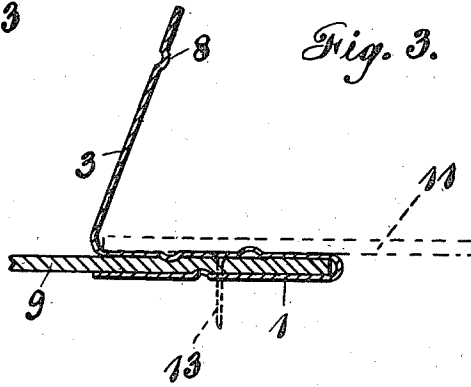
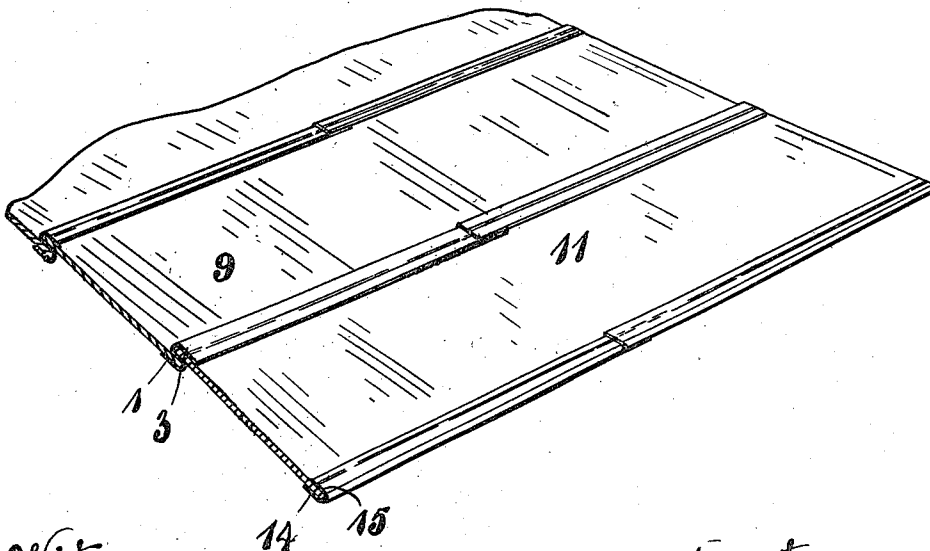


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK E. SMITH, OF SAN BRUNO, CALIFORNIA.

WATERPROOF LOCK-SEAM FOR ROOFING-PAPER.

984,860.

Specification of Letters Patent.

Patented Feb. 21, 1911.

Application filed May 10, 1909. Serial No. 494,985.

To all whom it may concern:

Be it known that I, FRANK E. SMITH, citizen of the United States, residing at San Bruno, in the county of San Mateo and State of California, have invented a new and useful Improvement in Water-proof Lock-Seams for Roofing-Paper, of which the following is a specification in such full and clear terms as will enable those skilled in the art to construct and use the same.

My invention relates to the art of roofing with paper, and has for its object to provide novel means for rendering the seams of paper roofing water-proof.

I attain my object by the means illustrated in the accompanying drawing of which—

Figure 1 is a sectional view of my device in place. Fig. 2 is a sectional view of a modified form for use along the outer edges of paper roofing. Fig. 3 is a sectional view of my device in position ready to receive an adjoining sheet of paper. Fig. 4 is a perspective view of my device.

The same numeral of reference marks the same part throughout the various views.

In general terms my invention comprises a sheet of metal adapted to lock and protect the seams in paper roofing.

In detail it comprises a sheet of metal 1 shaped to have a rearwardly projecting portion 2, a forwardly projecting portion 3, and an intermediate portion 4. The rearwardly projecting portion is provided with a ridge 5 placed substantially as shown in Fig. 1. The intermediate portion is provided with ridges 6 and 7 and the forwardly projecting portion is provided with a ridge 8. All the ridges are arranged substantially as shown in Fig. 1, so that ridges 5 and 6 will crimp the paper 9 at the point 10 and ridges 7 and 8 will crimp the paper 11 at the point 12, when the paper sheets are inserted in the spaces shown and the parts of my device are driven into the position shown. A nail 13

is driven between the intermediate portion, through the rearwardly projecting portion and into the roof.

The modified form of my device which is to be used around the extreme outer edges of the paper comprises an under portion 14 and a top portion 15. The top portion is provided with a ridge 16 which partially crimps the paper.

The ridges 8 and 16 have the form of a groove on their upper side, and the water escapes along this groove.

My device is made in suitable lengths usually about eight feet and the ends are joined as shown in Fig. 4.

Fig. 3 shows my device with the forwardly extending portion raised to enable the nails to be driven. After the nails are driven said portion is turned down as in Fig. 1.

Having described my invention what I claim as new and desire to secure by Letters Patent of the United States is—

In a device of the character described a water-proof locking device for the seams of roofing paper comprising a sheet of metal having a rearwardly projecting portion provided with a ridge, an intermediate portion provided with a forward ridge and a rear ridge, a forwardly projecting portion provided with a ridge, the ridge on said rearwardly projecting portion cooperating with the rear ridge of the intermediate portion to crimp one of the paper sheets and a ridge on the forwardly projecting portion cooperating with the forward ridge of the intermediate portion to crimp the adjoining sheet.

In testimony whereof I have set my hand this 19th day of April A. D. 1909, in the presence of the two subscribed witnesses.

FRANK E. SMITH.

Witnesses:

FRANK P. MEDINA,
WILLIAM C. MELEE.