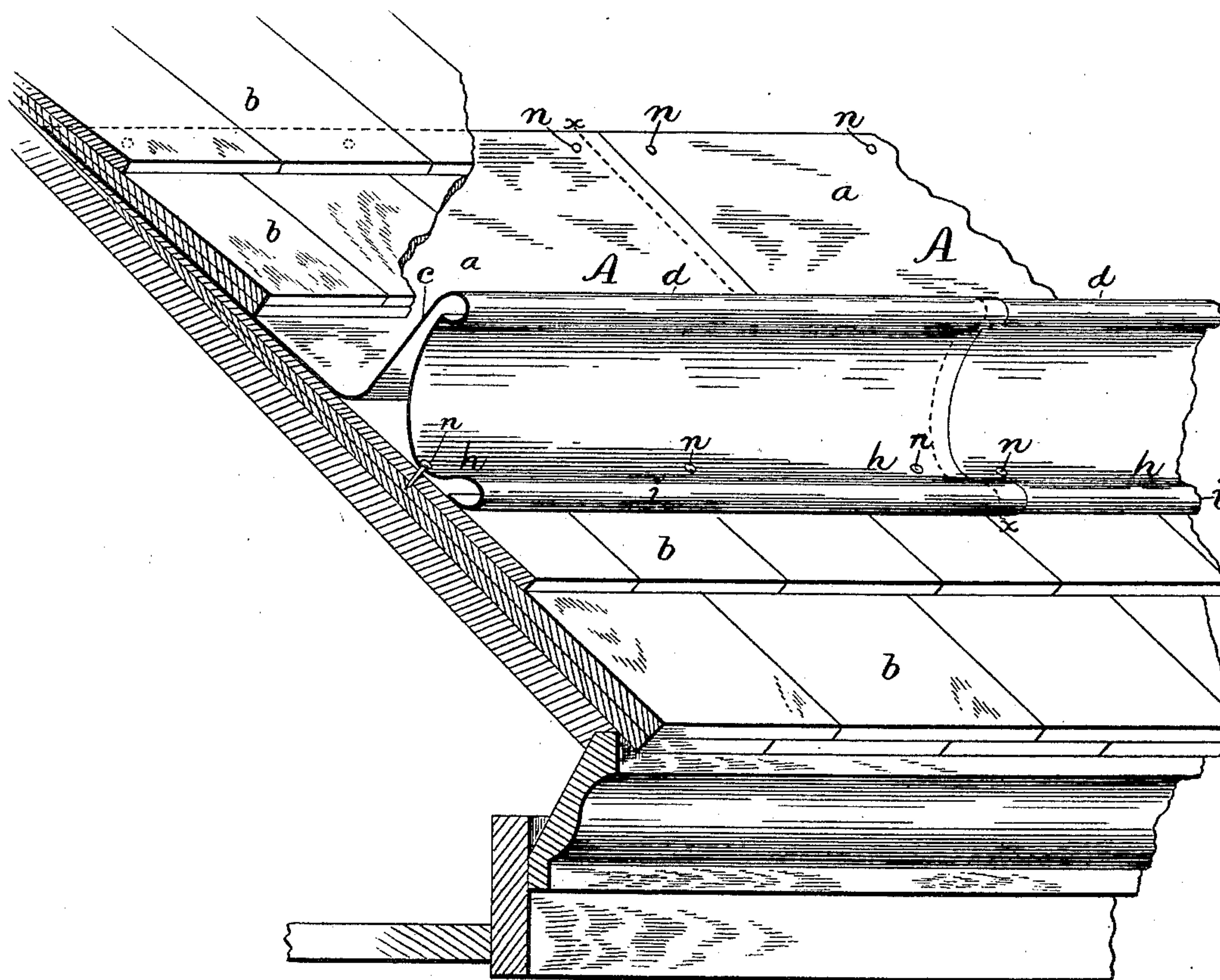


(No Model.)

F. D. MOON.  
STANDING GUTTER FOR ROOFS.

No. 462,847.

Patented Nov. 10, 1891.



WITNESSES,  
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# UNITED STATES PATENT OFFICE.

FRANK D. MOON, OF NEW BRITAIN, CONNECTICUT.

## STANDING GUTTER FOR ROOFS.

SPECIFICATION forming part of Letters Patent No. 462,847, dated November 10, 1891.

Application filed February 25, 1891. Serial No. 382,809. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK D. MOON, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Standing Gutters for Roofs, of which the following is a specification.

My invention relates to improvements in standing gutters for roofs, and the chief objects of my improvement are economy of production, convenience and cheapness of attachment, strength and durability when attached, and convenience in removing and replacing when it is desired to reshingle the roof.

In the accompanying drawing the only figure is a sectional perspective view of my gutter and a portion of a roof.

I propose to make my gutter in lengths convenient to handle, and of galvanized iron or other suitable material, which when formed, as shown, will keep its form without an internal strip or core of wood; but, if desired, it may be stiffened at points by inner transverse sheets of metal. A designates one of such lengths having an upper flange or apron *a* to extend up under the shingles *b* above the gutter and form one wall of said gutter. The metal is then turned substantially at right angles to said apron *a* to form a ridge which constitutes the other wall *c* of the gutter, with a roll or bead *d* at the top of said wall. From this bead a brace-wall extends, in which the metal curves downward and outward until it reaches the nailing-point *h* in the line of said apron, and then curves upward, terminating in a roll or bead *i* at the lower edge, the whole being formed of one continuous piece of metal, as shown. These lengths *A* may be sprung open slightly at one end to let the confronting end or edge of the adjoining length extend into the standing portion of the gutter and under the apron portion; or, if desired, the lengths or sections may be formed slightly smaller at one end than the other to permit them to be so put together.

In attaching the gutter two courses of the shingles *b* are first laid, and then the gutter is placed in position thereon with the adjoining edges lapped, as indicated by the broken lines at *x x*, when it may be secured in place by nails *n*, as shown, and other lengths added to extend in like manner along the desired

length of the roof. The seams may then be soldered together to permanently and tightly connect the different lengths and the upper courses of shingles put in place over the upper portion of the apron, as shown for a portion of the way at the left of the figure in the drawing. The gutter may be left with the ends of its ridge open, as shown, or said ends may be finished in any desired manner. It is also evident that ordinary dams may be used in connection with my gutter.

When it is desired to reshingle the roof, the shingles above the gutter are first removed, then the nails that fasten on the gutter may be withdrawn, the whole gutter removed bodily and laid aside until the lower courses of shingles have been replaced with new ones, after which the gutter can be replaced.

While I have mentioned shingles as a covering for the roof, it will of course be understood that slate or other equivalent covering may be used without changing the nature of my improvement.

I am aware that a prior patent shows and describes an eaves-trough consisting of two L-shaped strips of metal, the vertical flanges of which were united in a bead or roll at their top edges, the outer one of said strips having a bead at the outer edge of its horizontal portion, and the same is hereby disclaimed.

I claim as my invention—

1. The herein-described gutter for roofs, consisting of ready-formed suitable lengths of metal having the apron and hollow standing ridge adapted to fit together and to be tacked to the roof by nails, each length being formed complete of a single piece of metal, substantially as described, and for the purpose specified.

2. The herein-described gutter for roofs, consisting of lengths of metal having the apron *a* and hollow ridge consisting of the wall *c*, roll *d*, and the curved brace-wall extending downward and outward from said roll to the nailing-point *h* in the line of said apron, the whole of each length being formed of one continuous piece of sheet metal, substantially as described, and for the purpose specified.

FRANK D. MOON.

Witnesses:

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