

# H. D. Cooke, - Metallic Roofing.

PATENTED AUG 1 1871

117605

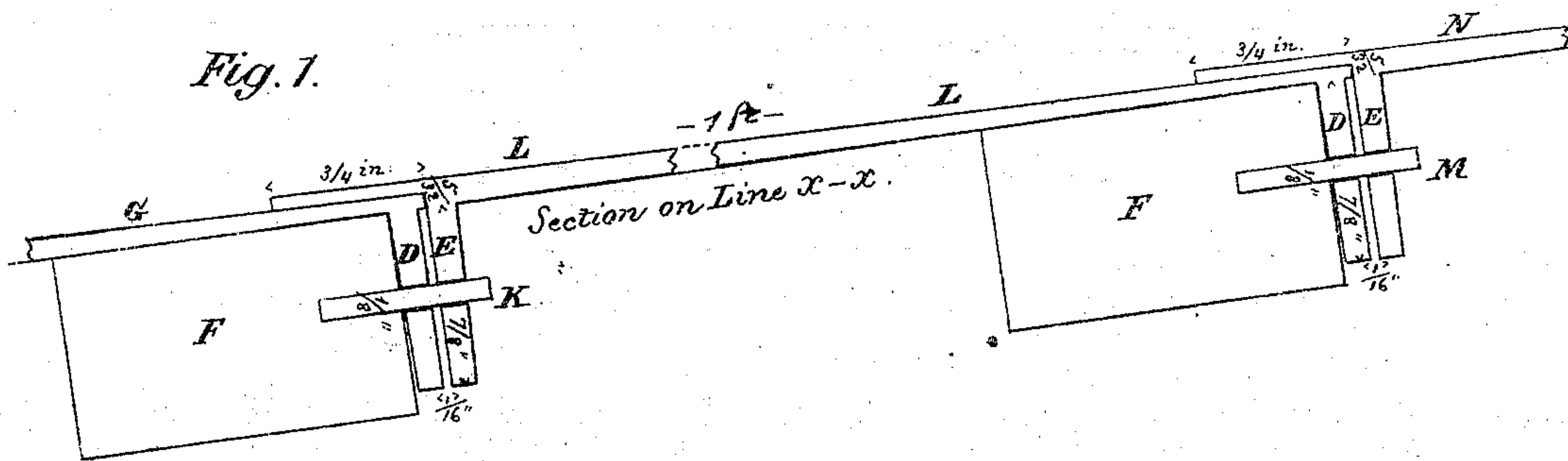
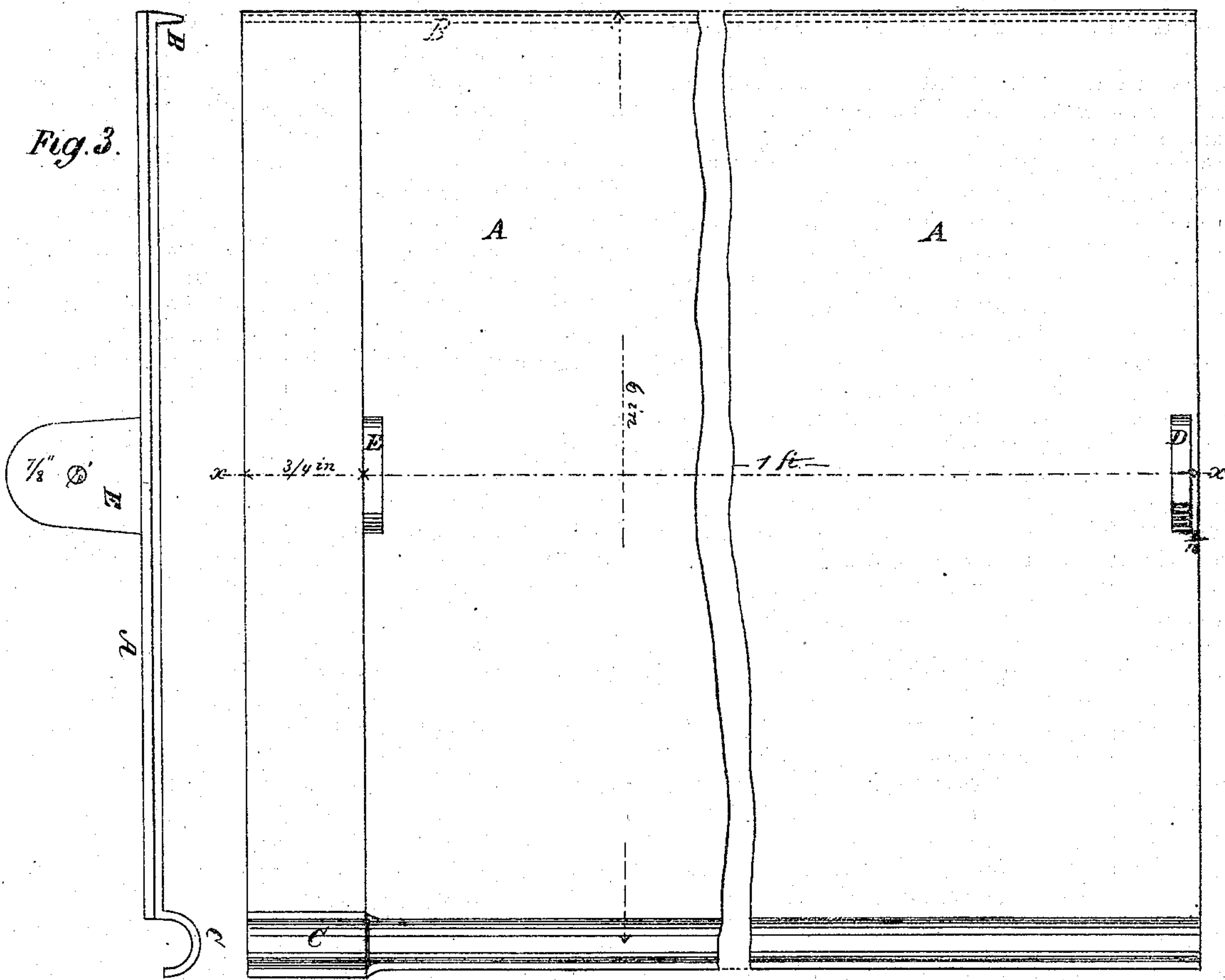


Fig. 2.



Witnesses:

Fred. Artois  
C. E. Clapp

Inventor:

Harry D. Cook

# UNITED STATES PATENT OFFICE.

HARRY D. COOK, OF NORMAL, ILLINOIS.

## IMPROVEMENT IN METALLIC ROOFINGS.

Specification forming part of Letters Patent No. 117,605, dated August 1, 1871.

*To all whom it may concern:*

Be it known that I, HARRY D. COOK, of Normal, of the county of McLean and State of Illinois, have made certain Improvements in Metallic Roofing, of which the following is a specification:

My invention relates to the mode of fastening cast-iron or other metallic shingles upon the roof; and consists chiefly of the use of two lugs upon the under side of the shingle, in combination with the nail for fastening the shingle in place. The metallic shingles heretofore used required to be fastened by driving the nail on the under side of the shingle after it was laid in place upon the roof. This operation was very inconvenient, and it was also difficult to remove shingles thus fastened whenever it became necessary in repairing or raising the roof. This difficulty arose from the fact that each shingle had but one lug, and that was on the under side and near the lower end of the shingle, and was intended to fasten two shingles by laying one upon the other and then secure both by a single nail or fastening put into the lug of the upper shingle.

In the accompanying drawing, Figure 1 is a longitudinal section, which shows the mode of fastening my shingles. Fig. 2 is a bottom view of my improved shingle, and Fig. 3 is an end view of my shingle.

I propose to make my improved roofing of cast-iron or other suitable metal.

The main body A of the shingle may be one foot long and six inches wide, or of any other suitable dimensions, and of proper thickness. Along one side of the shingle is a flange, B, and upon the other side a curved lip, C, intended to fit over the flange and thus make a water-tight joint, which will not leak either from the accumulation of melting snow upon the roof or during a strong wind with driving rain. On the under side of my shingle are two (or more) lugs, D and E, one being near each end of the shingle. These lugs have holes for the nail or fastening.

My shingles are laid as follows: In place of the ordinary close sheathing I use a series of ribs or strips, F, say about four or six inches

wide. These are laid at regular distances apart, just the length of the shingles. The upper end of a shingle is seen at G, with its lug D resting against the upper side of the rib F, and the nail or fastening K driven in place. This nail is left projecting, say half an inch, in order to receive the lug E of the next shingle L, and thus one nail or fastening holds two shingles. The shingle L is slipped into place after the nail is driven, and this prevents the necessity of driving the nail from the under side of the roof, and the shingle can be easily removed. After the shingle L is put in place the nail M is driven; then the next shingle N is put in place by slipping its lug E upon the nail M, which thus holds two shingles. If it is desired to remove the shingles they may all be easily taken off by beginning at the upper course and slipping each shingle in succession from the headless nails, without the use of a hammer or any other tool. The nails or fastenings should be made of suitable size and length, say about two inches long, and without a head, so that the lug of the upper shingle may be slipped upon the nail after it is driven, and also to allow the removal of both shingles without drawing the nail.

I do not limit my invention to the precise arrangement above described. I do not claim the overlapping of the top or upper end of each shingle by the base or lower end of the next above, nor do I claim the rib or flange B on the one edge and the covering-channel on the opposite edge thereof.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The shingle L provided with its overlapping flange and lugs, constructed and applied to the roof in the manner described.

2. The series of shingles provided with lugs and flanges, the lugs being perforated, as shown, and attached by the headless nails, all as set forth.

HARRY D. COOK.

Witnesses:

DANIEL BREED,  
FREDK. ARTOS.