

J. F. & L. HESS.  
Eaves-Trough Hanger.

No. 163,655.

Patented May 25, 1875.

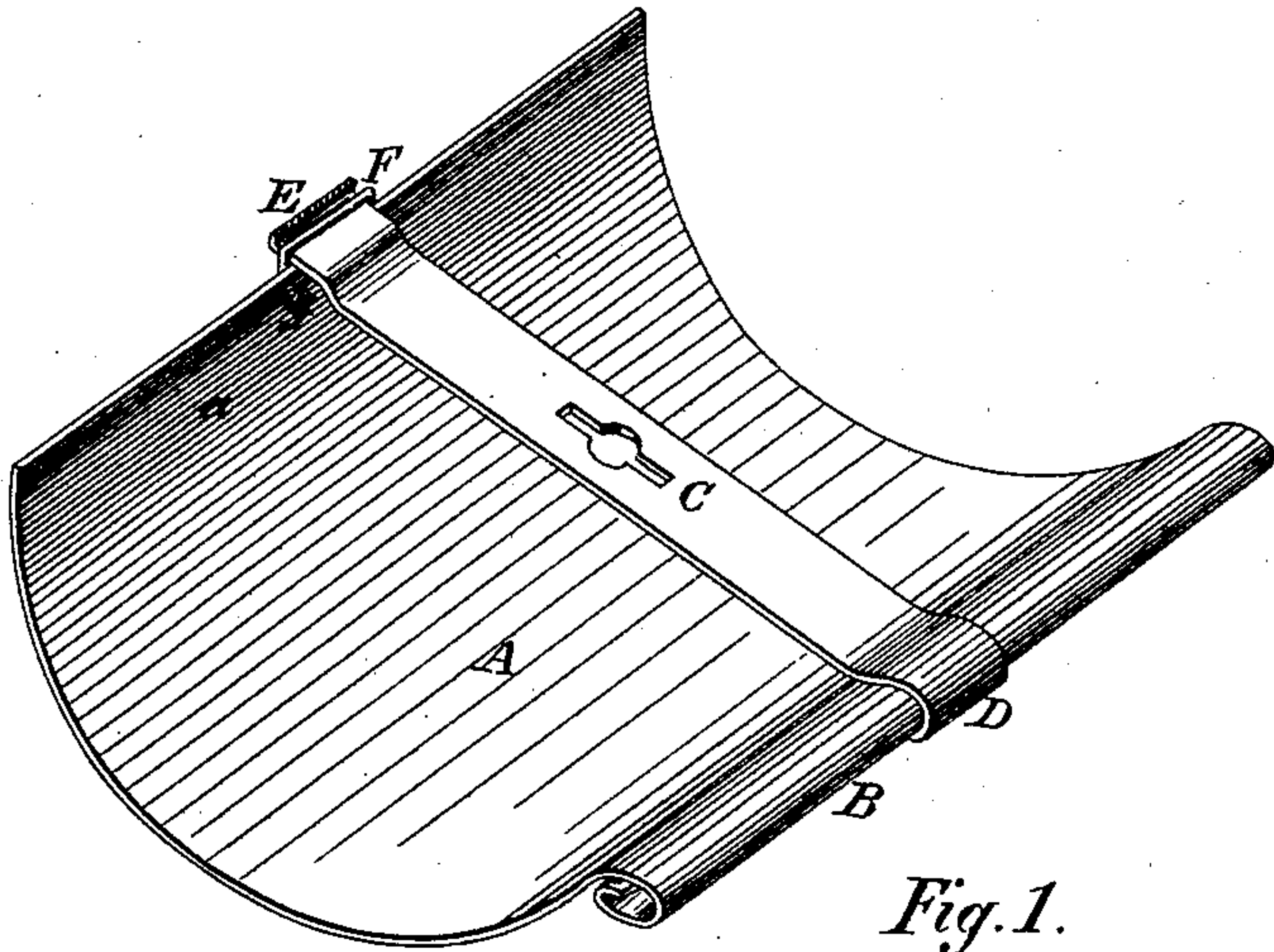


Fig. 1.

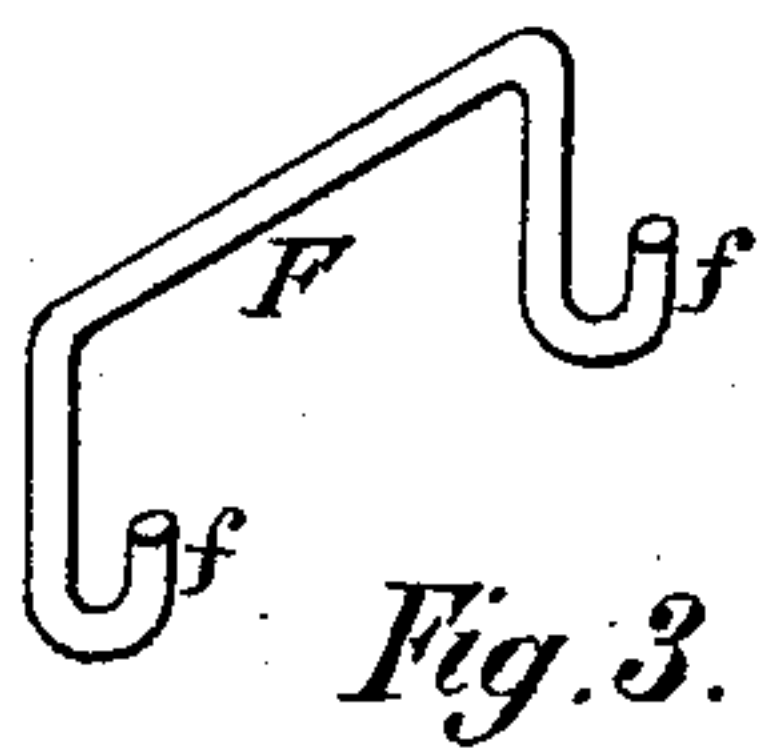
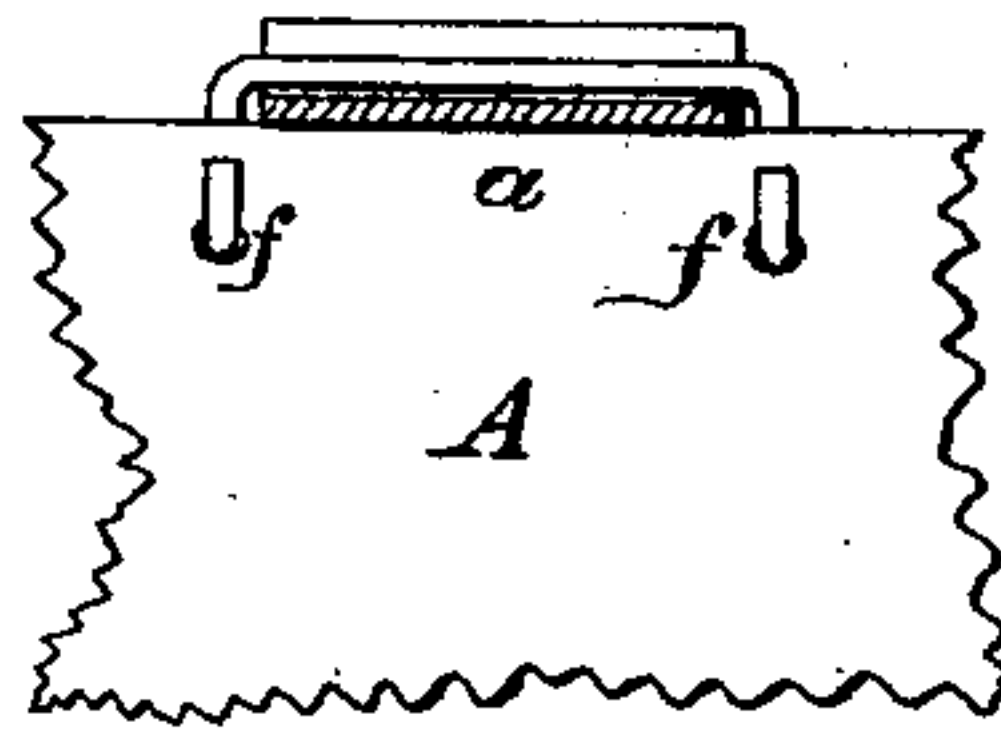
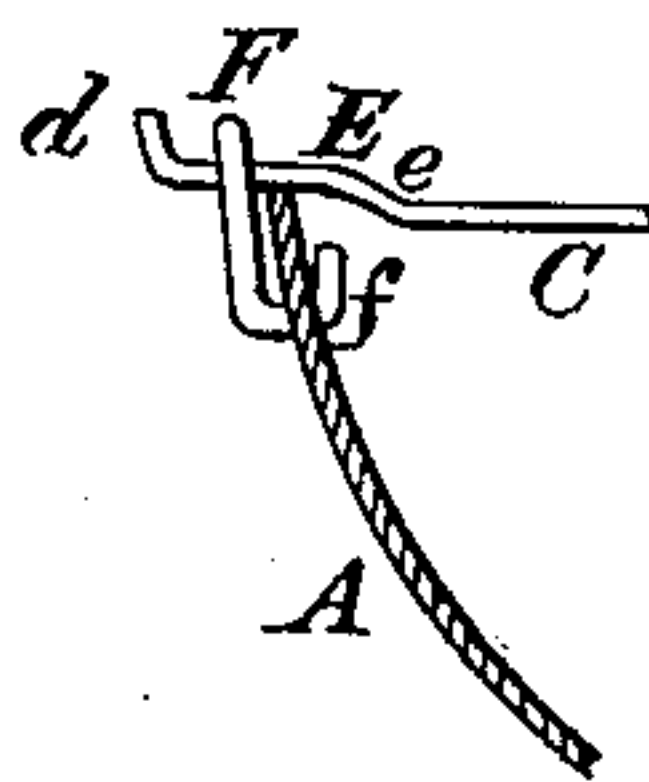


Fig. 3.



Figs. 2.

Ruth H. Abbott.  
Andrew Chaffin } Witnesses

Jacob F. Hess.  
Leonard Hess } Inventors.  
by Jacob Abbott, Attorney.

# UNITED STATES PATENT OFFICE.

JACOB F. HESS AND LENERD HESS, OF MASSILLON, OHIO.

## IMPROVEMENT IN EAVES-TROUGH HANGERS.

Specification forming part of Letters Patent No. **163,655**, dated May 25, 1875; application filed March 23, 1875.

*To all whom it may concern :*

Be it known that we, JACOB F. HESS and LENERD HESS, of Massillon, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Eaves-Trough Hangers; and that the following is a full, clear, and exact specification thereof, which will enable others skilled in the art to make and use the said invention.

Our invention relates to certain Improvements on hangers for eaves-troughs, for which Letters Patent No. 148,952 were granted to us March 24, 1874; and it consists in an improved manner of attaching the inner end of the hanger-bar to the straight end of the trough, as is hereinafter more fully shown.

In the accompanying drawing, Figure 1 is a perspective view, showing an application of our improvement. Figs. 2 and 3 are detail views of the same.

A is the eaves-trough or water-conductor, formed of sheet metal, having the sharp edge *a* and rolled edge B. C is the cross-bar, having the clasp D bent at one end to fit over the rolled edge B of the conductor. The other end other E of the cross-bar extends over the edge *a* of the trough, and is bent up at *c* just inside the trough, and again at *d* just outside the trough to cause the cross-bar to act both as a strut and tie between the sides of the trough. To secure the end E to the edge *a* we make use of the wire-clasp F, which is

made in a U form, and has the hooks *f f* bent at the ends of its legs, as shown in Fig. 3. These hooks *f* are inserted in holes in the side of the trough near the edge *a*, as shown in Figs. 1 and 2, and the end E of the cross-bar is inserted between the clasp F and edge *a*, thus securing the bar to the edge *a* of the trough.

This improved manner of uniting the inner end of the cross-bar to the trough enables us to use a much cheaper grade of iron in the cross bar than was practicable in the construction shown in our former patent, and obviates any danger of destroying the cross-bar by breaking off the end fastening, while securing the bar to the trough, which was liable to occur in our former construction, thus reducing the cost and adding materially to the solidity and durability of the construction.

What we claim as our invention, and desire to secure by Letters Patent, is—

The wire-clasp F, with hooks *f f*, in combination with the cross-bar C and trough A, substantially as and for the purpose specified.

As evidence of the foregoing witness our hands this 27th day of February, A. D. 1875.

JACOB F. HESS.  
LENERD HESS.

Witnesses:

ROBERT H. FOLGER,  
J. W. SCHUCKERS.