(No Model.)

C. H. COOPER.

ARCHITECTURAL WIRE FABRIC.

No. 416,826. Patented Dec. 10, 1889.

Fig. 1.

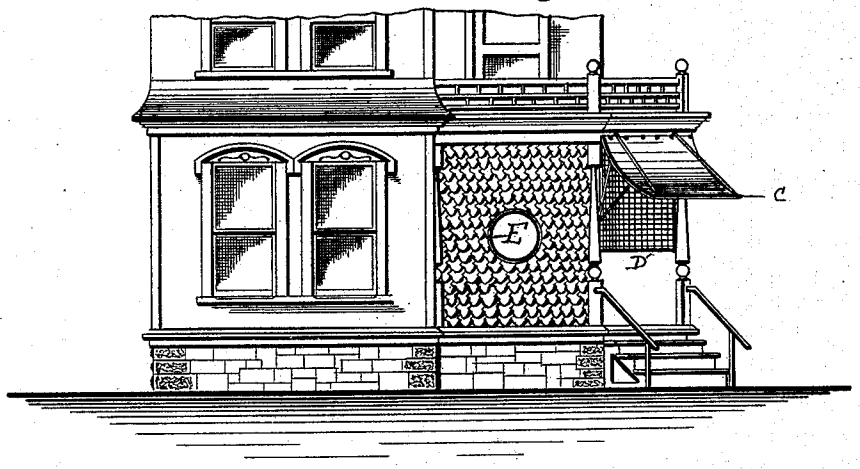
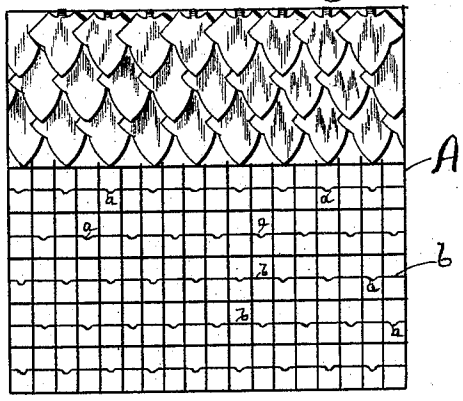


Fig. 2.



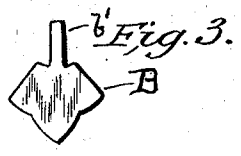


Fig. 3.

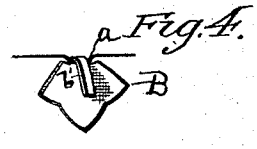


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES H. COOPER, OF WATERTOWN, NEW YORK.

ARCHITECTURAL WIRE FABRIC.

SPECIFICATION forming part of Letters Patent No. 416,826, dated December 10, 1889.

Application filed September 27, 1889. Serial No. 325,233. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. COOPER, of Watertown, in the county of Jefferson, in the State of New York, have invented new and useful Improvements in Wire-Cloth, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in wire-cloth used for architectural purposes, the purpose of the invention being to form a wire-cloth covered with artificial leaves or equivalent devices, so as to effectually exclude rain and strong drafts from the inclosure surrounded by the same; and to that end I employ as a suitable foundation a wire-cloth composed of longitudinal and lateral wires, the latter being provided with the bent portions *a a*, into which are pressed the stems *b'* of the leaves B.

In the annexed drawings similar letters indicate corresponding parts in all the views, in which—

Figure 1 is an elevation of a cottage provided with my improved architectural wire-cloth used in three places on the porch of said house. At C the cloth is used as an awning, which can be drawn up out of reach when not in use. At D it is shown in use as a curtain intended to be rolled upon a roller at the upper part of the porch in the same manner as curtains of cloth, &c., are usually rolled. At E it is shown in the form of a fixed siding firmly secured in position at its edges and provided with an opening or window at about the center. Fig. 2 is an enlarged view of a piece of wire-cloth, the upper portion of which is finished, and the lower portion is left in an incompleted condition, the leaves not being affixed to the wires; and said view shows how the lateral wires are bent to better secure said leaves in position thereon and prevent any lateral movement of said leaves upon the wires to which they are secured. Fig. 3 is an enlarged view of the blank for one leaf, as the same is formed by the cutting-die; and Fig. 4 shows the rear side of one leaf secured to a strand of the wire-cloth.

In the manufacture of my improvement a specially-prepared foundation fabric of wire is essential, and I preferably form the bent portions *a* in each alternate space of the fabric. The leaves are formed usually from sheet metal, or any substantial material which will answer as an equivalent thereof; and after the foundation fabric is prepared the stems *b'* of the leaves B are passed through the meshes of the wire-cloth and are held in position, after which they are turned down and folded, as shown in Fig. 4, thus securing them firmly in position, after which a drop of solder may be applied to hold the leaves more securely to the fabric, if deemed advisable. Thus formed, my improvement results in a very light, strong, and easily-portable curtain or shield, which may be used as shown in the drawings, Fig. 1, and for a variety of other purposes, such as summer-houses, trellises, garden-arches; and, if desired, it may be substituted for the ordinary screen-fence, when deemed advisable. When it is used as an awning, it may be applied as shown in Fig. 1; or a roller may be used in connection therewith, upon which the cloth may be caused to wind for drawing it out of its normal position.

I do not wish to limit myself to the special applications of my invention herein shown; but

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

1. As a new article of manufacture, a wire cloth provided with pendent leaves to form a shield or covering, substantially as shown.

2. As a new article of manufacture, a wire-mat composed of a ground-work of interlaced wires, to which are secured leaves, as shown, to form a shield or covering, substantially as described.

3. A covering for summer-houses, composed of a ground-work of wire, to which are secured leaves of metal or other opaque substance to form a screen, substantially as shown.

In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Watertown, in the county of Jefferson, in the State of New York, this 16th day of August, 1889.

CHARLES H. COOPER.

Witnesses:
GEO. H. WALKER,
O. DEGRASSE GREENE.