

No. 667,614.

Patented Feb. 5, 1901.

H. BRADLEY.

WIRE CLOTH SCREEN AND PROCESS OF MANUFACTURING SAME.

(Application filed Sept. 18, 1899.)

(No Model.)

Fig. 1.

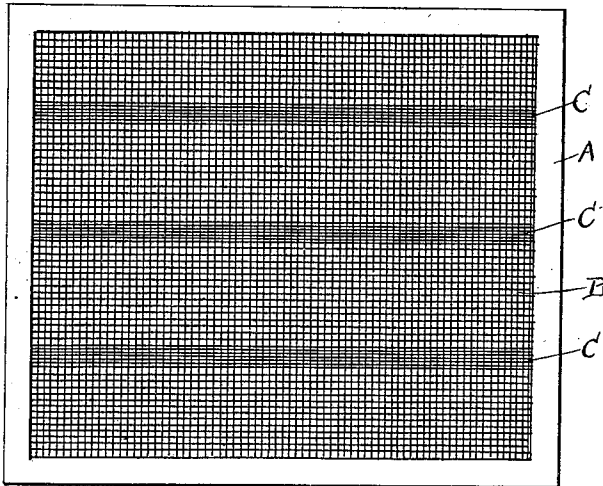


Fig. 2.

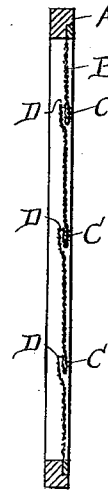


Fig. 3.

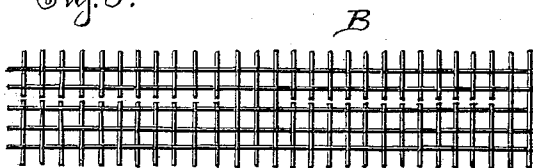


Fig. 4.

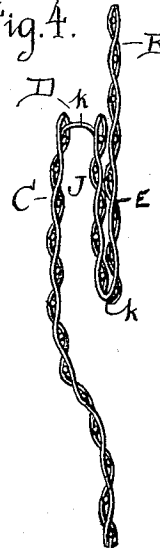
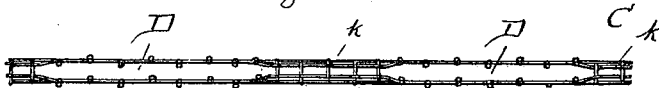


Fig. 5.



Witnesses:

George M. Anderson
William S. McCarthy

Inventor:

Hiram Bradley
by E. W. Anderson.
Attorney.

UNITED STATES PATENT OFFICE.

HIRAM BRADLEY, OF MOREHEAD, KENTUCKY.

WIRE-CLOTH SCREEN AND PROCESS OF MANUFACTURING SAME.

SPECIFICATION forming part of Letters Patent No. 667,614, dated February 5, 1901.

Application filed September 18, 1899; Serial No. 730,857. (No model.)

To all whom it may concern:

Be it known that I, HIRAM BRADLEY, a citizen of the United States, and a resident of Morehead, in the county of Rowan and State of Kentucky, have invented certain new and useful Improvements in Wire-Cloth Screens and Processes of Manufacturing the Same; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side elevation of one of my screens. Fig. 2 is a vertical transverse section of same. Fig. 3 is a detail view of a portion of a wire screen having the cuts or openings therein. Fig. 4 is a side view of same with the fold formed therein. Fig. 5 is a plan view of a portion of the outer bend of one of the folds.

This invention is designed to provide a simple and efficient form of screen for use in windows, doors, fly-traps, and other places where such a device is applicable; and it consists mainly in the novel conformation of the slotted folds, as hereinafter set forth.

In the accompanying drawings the letter A designates the frame of an ordinary window-screen having my invention applied thereto. The screen B consists of the wire-cloth having the narrow folds C extending across or along the same and provided with narrow slots or openings D in one of the bends of the fold. The screen may be attached to the frame by means of tacks or other fastenings in any ordinary way, each fold being flattened at the ends on the intermediate doubling and secured in such position. Each fold C has outer and inner bends *k k*, a space J being located between the two sides of the fold. On the inside this bend *k* is entire, being without slot or opening, except the meshes formed by the crossing of the wires. On the outside, however, the bend *k* is slotted at intervals, usually by simply cutting a line of vertical wires between adjacent uncut horizontal wires in two for a short distance before bending or in such a manner that when the fold is formed the ends of the cut wires of these meshes will project outwardly or in the plane of the wire-cloth. Each outer bend of each fold may in this manner be provided with a

series of short narrow slots of sufficient width to allow the passage of a fly outward through the screen, while it will prevent the entrance of such an insect from without inward, not only because of its narrowness and its small wire end projections, but because of its edge-like position, whereby it is difficult to be perceived or to be approached in proper position to effect an entrance. The slots of the bend are made short in order that they shall not spread and form large openings, which would defeat the end in view.

Where it is desired to entrap the flies, the slotted bend of the folding of the wire-cloth-trap wall should be arranged on the inside.

The outer bend of each fold C is rounded or a space separates the sides of the fold at such bend and the slits D in such bend are of a width substantially the same as the space separating the two sides of the fold and are guarded on both sides by series of half-mesh long wire ends projecting upwardly in the planes of the sides of the fold and substantially on a level with the top of the fold.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. A wire-cloth fly-screen provided with transverse doublings or folds, each such fold having a rounded bend provided with a slot or slots therein of substantially the same width as the space separating the two sides of the fold at such bend, said slot or slots being bounded on both sides thereof by series of half-mesh long vertical wire ends cut midway between horizontal wires of the screen, and projecting upwardly substantially in the planes of the sides of the fold, substantially as specified.

2. The process of forming openings in a wire screen, which consists in first slitting a plurality of wires thereof running in one direction and between adjacent wires running at right angles thereto which remain uncut, and second bending such screen into a fold having the slit thereof in one of the bends of such fold, whereby the cut ends of said wires automatically separate in such bending, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

HIRAM BRADLEY.

Witnesses:

M. B. MARK,
L. P. SIMER.