(No Model.)

J. F. GOLDING.

PROCESS OF MAKING METALLIC SCREENING MATERIAL.

No. 320,240. Patented June 16, 1885.

Fig. 1.

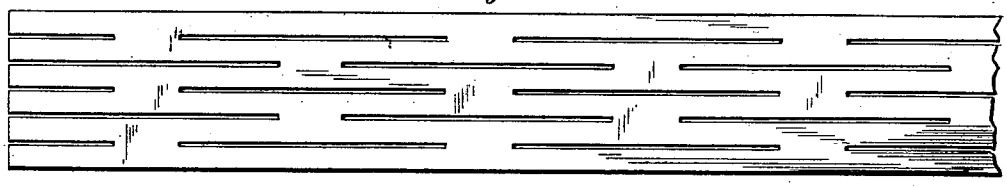


Fig. 2.

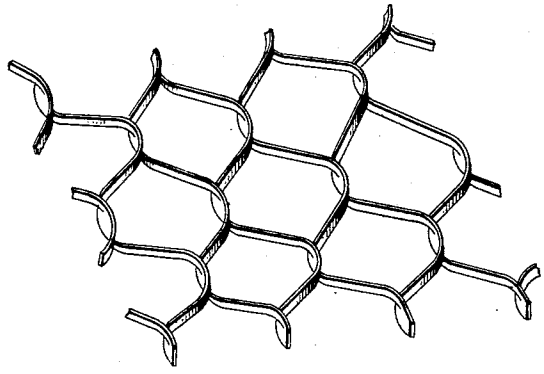


Fig. 3.



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JOHN F. GOLDING, OF CHICAGO, ILLINOIS.

PROCESS OF MAKING METALLIC SCREENING MATERIAL.

SPECIFICATION forming part of Letters Patent No. 320,240, dated June 16, 1885.

Application filed December 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. GOLDING, a citizen of the United States, residing in the city of Chicago, in the State of Illinois, have invented a new and useful Process for Making Metallic Meshed or Screening Material, of which the following is a specification.

Figure 1 is a view of the material cut or slashed ready for forming the meshes. Fig. 2 is a view of the metal after the meshes are formed. Fig. 3 is an end view of Fig. 1, showing the slashed metal before the meshes are formed.

I take a piece of metal and make a series of rows of incisions throughout it, and between the ends of these incisions I leave uncut spaces, these incisions or cuts being so arranged that the uncut spaces will be at or about midway of the adjoining cuts, and thus the incisions or cuts and the uncut spaces are made to alternate throughout the sheet, the uncut spaces connecting the strands one with another, and the whole remaining in one piece, as is shown in Fig. 1. The metal thus prepared is opened at the slits by causing the cut edges to be passed by each other all in the same direction, and away from the original plane of the metal a sufficient distance to produce the desired size of mesh, the ends of each strand being bent in opposite directions at or near the uncut spaces sufficiently to set the metal and maintain the mesh, as is shown in Fig. 2. The metal is expanded so that the strands and uncut spaces have their greatest movement in the direction of or near a right angle to the original plane of the metal, and a less movement of the ends toward the center, the strands and uncut spaces having a base in the aggregate equal in width but shorter than the piece from which they are cut.

I claim—

1. In the art of making screening from slashed metallic plates or sheets, the improvement of bending the strands flatwise, line after line of strands successively, in forming the meshes, and setting the strands, substantially as before set forth, so that the strands will be disposed edgewise in the thickness of the finished screening.

2. The process herein shown for making slashed metallic screening, which consists as follows: making a series of rows of incisions or cuts throughout the metal, and between these incisions or cuts leaving uncut spaces, each uncut space being alongside of and between two incisions or cuts, and at or near the center of said cuts, the incisions or cuts of each row of incisions or cuts made to alternate with the uncut spaces throughout the entire piece of metal, opening the incisions or cuts in a manner to cause the cut edges to be passed by each other all in the same direction perpendicular to the original plane of the metal, thus bending each strand in opposite directions at points at or near the uncut spaces sufficiently to set the metal and maintain the mesh, the metal being so expanded that the several strands have their greatest extension in the direction of or near a right angle to the original plane of the metal, and a less movement of the ends toward the center, thus expanding the metal into a mesh.

JOHN F. GOLDING.

Witnesses:
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