

J. W. BROCK.

Improvement in Wire Cloth for Screening Coal.

No. 132,949.

Patented Nov. 12, 1872.

Fig. 1.

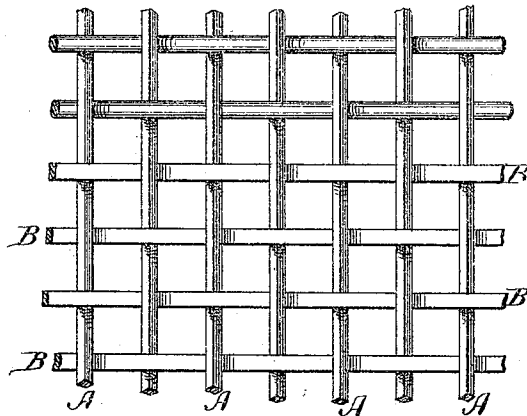


Fig. 2.

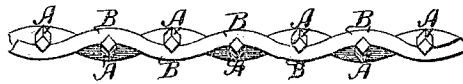
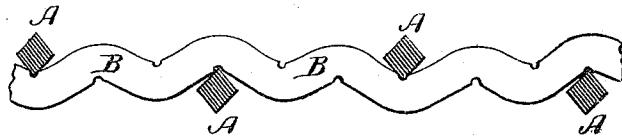


Fig. 3.



Witnesses.

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JOSEPH W. BROCK, OF SCRANTON, PENNSYLVANIA.

IMPROVEMENT IN WIRE-CLOTH FOR SCREENING COAL.

Specification forming part of Letters Patent No. 132,949, dated November 12, 1872.

To all whom it may concern:

Be it known that I, JOSEPH W. BROCK, of Scranton, in the county of Luzerne and State of Pennsylvania, have invented a new and Improved Wire-Cloth for Screening Coal; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a plan view; and Figs. 2 and 3 are edge views of two varieties of the invention.

Similar letters of reference in the accompanying drawing indicate the same parts.

This invention belongs to that kind of wire-cloths in which both the warp and filling are four-sided wires; in other words, square in cross-section; and in which, therefore, each wire must be set either on its own side or on its edge. In such wire-cloth coal-screens as have both the warp and filling set on the side an amount of coal estimated at five per cent. of the whole quantity passing through the screen is broken into dust and therefore wasted by falling against the sides of the wires. This waste can be prevented by setting the wires on their edges instead of their sides, thus causing them to present sharp ridges to the coal instead of flat surfaces, as in the other case; but when the wires are thus set on edge the meshes between the wires are much more apt to clog, because the sides of the wires stand inclined. This is especially the case when the coal is wet, as it very fre-

quently is. My invention has for its object to improve the construction of wire-cloth coal-screens in such a manner as to secure the advantages derivable both from setting the wires on the edge and on the side, and to diminish in a great measure the disadvantages attending both methods. To this end my invention consists in wire-cloth having its warp set on the edge and its filling on the side, as I will now proceed to describe.

In the drawing, A are the warp-wires, and B the filling, the former being set on their edges and the latter on their sides. The result of this arrangement is that the amount of flat surface against which the coal has to fall and the consequent waste from pulverization is reduced one-half as compared with cloth having all its wires set on the side. At the same time the meshes, instead of having four inclined sides, as in the case of cloth having all its wires set on the edge, have only two inclined sides, so that the liability to clog is also reduced one-half.

Having thus described my invention, what I claim is—

As an article of manufacture, wire-cloth composed of four-sided wires, of which the warp is set on the edge and the filling on the side, substantially as specified.

J. W. BROCK.

Witnesses:

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