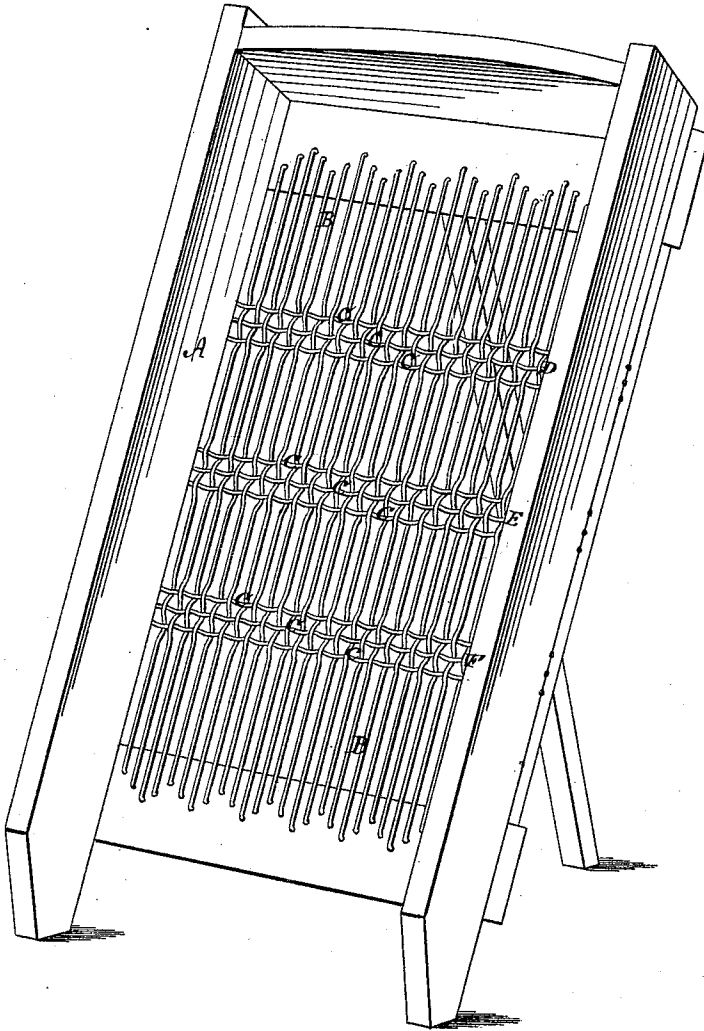


S. W. FLINT.  
METALLIC SCREEN.

No. 178,280.

Patented June 6, 1876.



Witnesses:

*Charles A. Smith*  
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# UNITED STATES PATENT OFFICE.

SILAS W. FLINT, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN METALLIC SCREENS.

Specification forming part of Letters Patent No. **178,280**, dated June 6, 1876; application filed May 15, 1876.

*To all whom it may concern:*

Be it known that I, SILAS W. FLINT, of Boston, Suffolk county, Massachusetts, have invented certain Improvements in Metallic Screens for Coal, Sand, &c., of which the following is a specification:

Heretofore in the manufacture of wire screens for sand, coal, &c., it has been customary to steady and prevent separation of the wire or bars by cross-rods of a larger gage placed below or behind them, and secured to them by a lashing or winding of fine wire. When subjected to use this fine wire soon wears off, and the wires or bars of the screen are left without the stay which is essential to their proper working, and which prevents their becoming bent and broken.

In my screen, as herein explained, I unite and steady the longitudinal wires or bars by means of several cross-wires of an equal or practically equal gage, these cross-wires being placed at proper intervals throughout the length of the screen, and intersecting or interweaving the main wires in such manner as to entirely prevent separation or slipping of one upon another, the size of the steadying or staying wires and the manner of interlacing the two enabling them to withstand an equal amount of wear.

The drawing accompanying this specification represents a perspective view of a wire screen embodying my improvement.

In this drawing, A represents the wooden frame, and B B, &c., the longitudinal wires or bars, of a wire screen adapted to screening coal, sand, and analogous substances, the screen, as composed of the said frame and wires, as far as relates to these two elements

in themselves considered, being practically the same as heretofore generally in use.

In carrying out the improvement which constitutes the subject of these Letters Patent I provide a series (usually three) of wires, C C C, &c., of a gage practically equal to that of the first, and I dispose these wires at suitable intervals throughout the length of the screen, as shown at D E F, &c., in order that while staying and preventing separation of the wires B, they allow a sufficient portion of the latter to be unobstructed to obtain the requisite screening-surface. The cross wires or stays C interweave or intersect the main wires B, substantially as shown in the accompanying drawing, and their ends are confined within or covered by the frame A, or otherwise disposed of.

A screen constructed as above explained possesses many important advantages, one of which is, that its wear and perfect service are greatly prolonged, since the stays C are equally as durable as the main wires; again, the screen preserves its original shape until worn out, as the interweaving of the two sets of wires prevents separation or slip of one upon another, as before stated.

I claim—

A metallic wire screen, constructed substantially as herein described—that is, as composed of the main or longitudinal wires and the series of cross-wires employed at intervals, and interweaving the first, essentially as stated, in combination with a suitable frame.

S. W. FLINT.

Witnesses:

F. CURTIS,  
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