

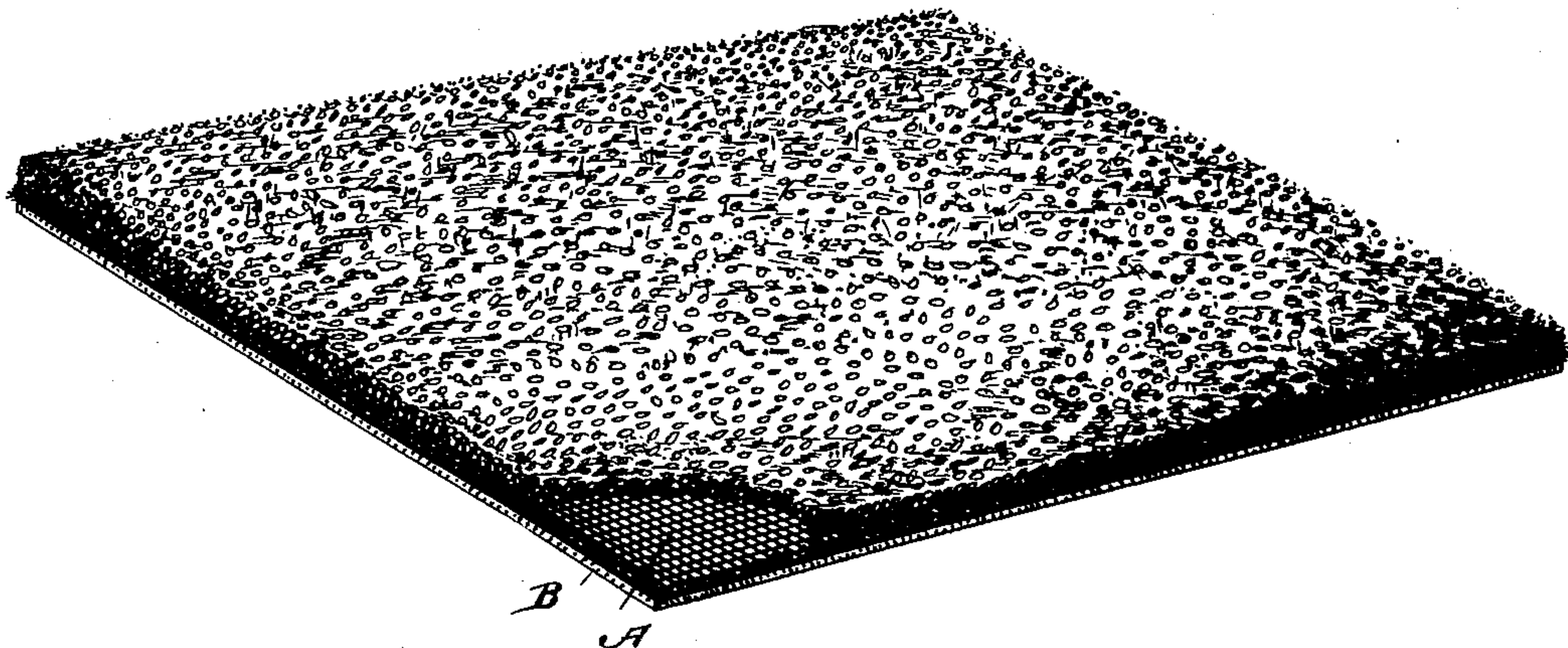
(No Model.)

C. M. GARRISON.  
ROOFING SHEET.

No. 407,195.

Patented July 16, 1889.

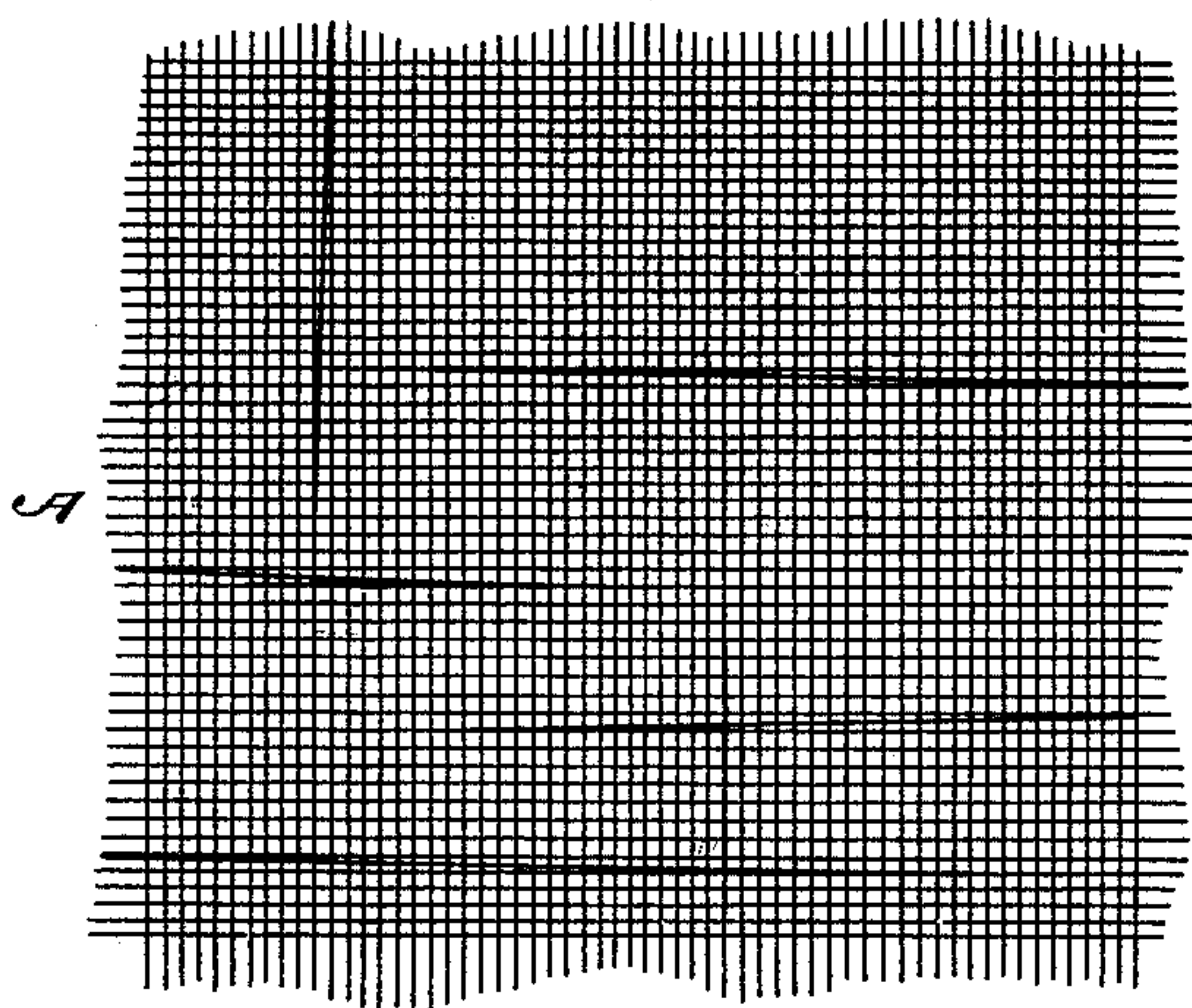
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

*Wm. H. Dyer*  
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# UNITED STATES PATENT OFFICE.

CHARLES M. GARRISON, OF WICHITA, KANSAS.

## ROOFING-SHEET.

SPECIFICATION forming part of Letters Patent No. 407,195, dated July 16, 1889.

Application filed April 10, 1889. Serial No. 306,685. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES M. GARRISON, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Roofing-Sheets; 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.

This invention has relation to a roofing-sheet, and is designed as an improvement upon the invention described in the Letters Patent granted to me October 16, 1888, No. 391,237.

The novelty will be fully understood from the following description and claims, taken in connection with the annexed drawings, in which—

Figure 1 is a perspective view of a roofing-sheet prepared according to my improvements with a portion of the flexible cement removed to expose the interposed wire fabric. Fig. 2 is a cross-sectional view of the same, and Fig. 3 is a plan view of a sheet of the wire fabric before being subjected to the action of the machine by which the flexible cement is applied.

In carrying out my invention I take a strip of woven wire with a sufficiently close mesh and place it upon a roll mounted in a frame holding the composition of matter with which it is coated. This composition of matter, as set forth in my Letters Patent above referred to, is composed of asphaltum, coal-tar, sand, and animal-hair in certain proportions. The sheet of woven metallic wire A is then wound from one roll upon another, being subjected in such passage to the composition of matter described, so that the meshes or interstices of the said sheet or strip will become filled, or at least one side thereof, so as to present a full and level surface. I then apply to the

under side of this sheet of woven wire bearing the composition a sheet of tarred paper or tarred cotton cloth B. This tarred sheet is sometimes known as "tarred felt," and may be used in double or single ply.

When two-ply tarred paper is used, one ply is to be coated with asphaltum or pitch, the same as the wire. In preparing this tarred paper or tarred cotton cloth it may be passed through the same machine as the one in which the wire-cloth is prepared, being drawn from one roll to another, and in its passage subjected to the composition. A roofing-sheet prepared in this manner I have found to possess the qualities of being both fire and water proof, and by the use of the wire in combination with the tarred sheet the roofing-sheet can be preserved indefinitely and used in any climate, possessing flexibility and being conveniently handled.

Having described my invention, what I claim is—

1. As an improved article of manufacture, a flexible water and fire proof fabric composed of a sheet of woven metallic wire having incorporated with it a flexible cement composed of asphaltum, coal-tar, sand, and animal-hair, and a tarred sheet of paper, cotton cloth, or tarred felt arranged on the under side thereof, substantially as specified.

2. As an improved article of manufacture, a roofing-sheet composed of a sheet of woven metallic wire having a coating of flexible cement on the upper side of the wire, and a bottom covering of tarred paper, tarred cotton cloth, or tarred felt, substantially as specified.

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

CHARLES M. GARRISON.

Witnesses:

WILLIAM SKINNER,  
K. JOHNESSEE.