

# UNITED STATES PATENT OFFICE.

CHARLES M. GARRISON, OF WICHITA, KANSAS.

## ROOFING.

SPECIFICATION forming part of Letters Patent No. 391,237, dated October 16, 1888.

Application filed January 25, 1888. Serial No. 261,910. (No specimens.)

*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, of which the following is a specification.

My invention relates to a method for making a covering for roofing and other purposes.

10 The object of my invention is to provide a flexible water-proof and fire-proof fabric; and to this end it consists of a sheet of woven metallic wire, in combination with a water and fire proof material, which is filled in the meshes  
15 or interstices of the sheet, so as to cover and inclose the same, as more fully hereinafter specified.

In practicing my invention I take a sheet of woven metallic wire of any suitable length and  
20 width, and coat or incorporate with it a cement composed of asphaltum, coal-tar, animal-hair, and sand. This may be applied in any convenient manner, but preferably by drawing the sheet of woven wire through a suitable tank  
25 or vessel containing the melted cement, which is kept in a liquid condition during the operation by means of heat. The proportions of the ingredients may vary within certain limits without changing the nature of my invention;  
30 but for general purposes the following proportions answer well—viz., asphaltum, ten parts;

coal-tar, seventeen parts; sand, seven parts; animal-hair, one part.

The asphaltum and coal-tar are melted in a suitable vessel by the aid of heat, and the other  
35 ingredients are thoroughly incorporated therewith. When in proper condition, and while still heated, the woven-wire fabric is drawn through the compound, by means of which the meshes become filled, the cement subsequently  
40 cooling and solidifying upon the fabric forming a flexible water and fire proof material.

To prevent stickiness or the adhesion of the material when rolled as it leaves the cement and before cooling, it may be dashed with fine  
45 sand or equivalent material, and to solidify the whole the fabric is passed between heavy pressing-rollers.

Having thus fully described my invention, what I claim, and desire to secure by Letters  
50 Patent, is—

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-  
55 hair, in about the proportions named.

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

CHARLES M. GARRISON.

Witnesses:

H. Y. HOSSFELD,  
WM. CONNER.