

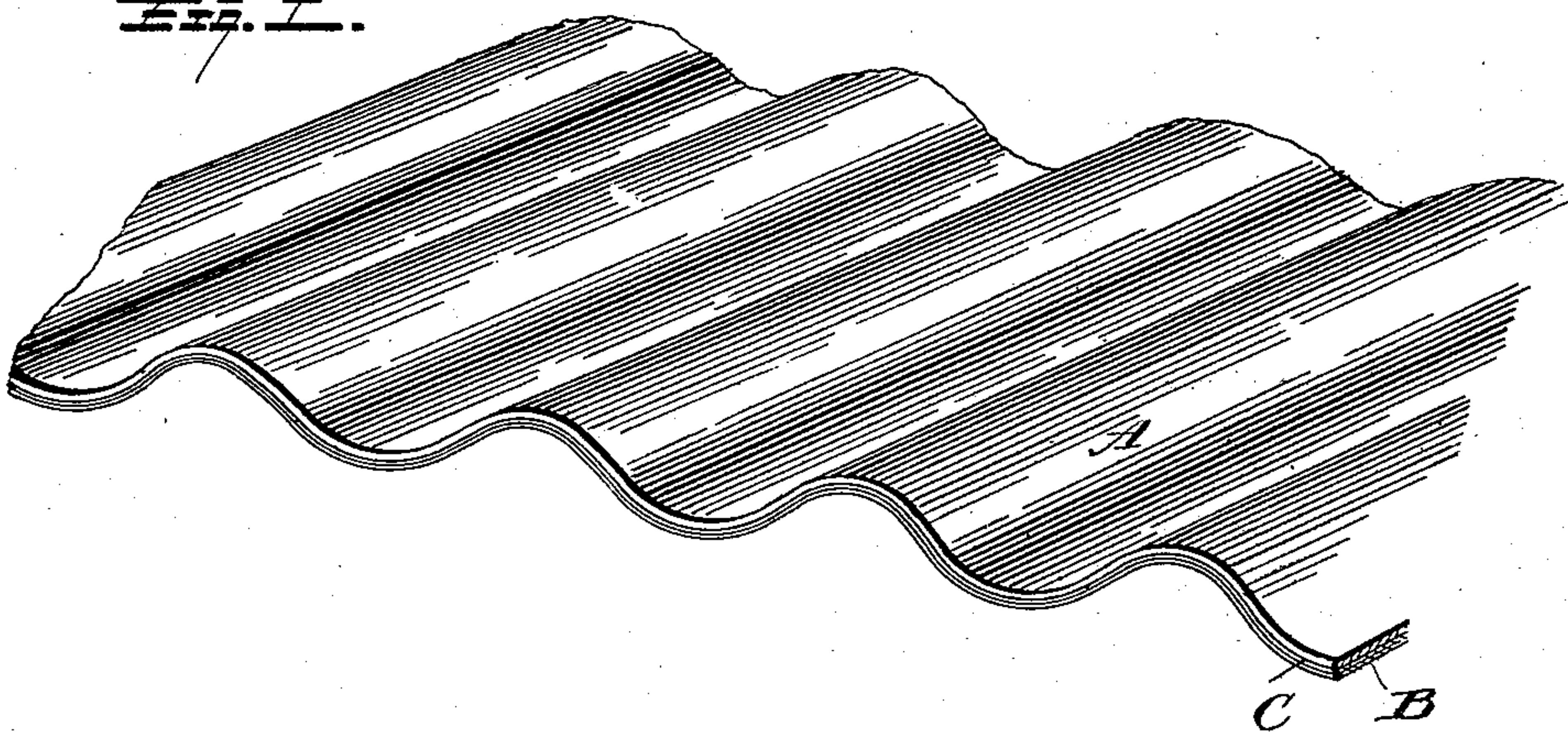
(No Model.)

W. L. & T. C. STANLEY.  
ADHESIVE COMPOSITION.

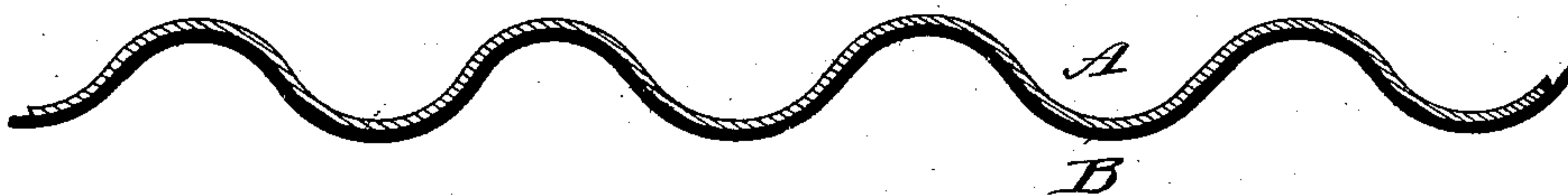
No. 506,745.

Patented Oct. 17, 1893.

~~Fig. 1.~~



~~Fig. 2.~~



Witnesses

*L. C. Hills*  
*Rachel Bond*

Inventors  
*William L. Stanley*  
*Thomas C. Stanley*

By *E. H. Bond*  
Attorney



# UNITED STATES PATENT OFFICE.

WILLIAM L. STANLEY AND THOMAS C. STANLEY, OF CAMBRIDGE, OHIO.

## ADHESIVE COMPOSITION.

SPECIFICATION forming part of Letters Patent No. 506,745, dated October 17, 1893.

Application filed August 27, 1890. Renewed October 17, 1892. Serial No. 449,077. (No specimens.)

*To all whom it may concern:*

Be it known that we, WILLIAM L. STANLEY and THOMAS C. STANLEY, citizens of the United States, residing at Cambridge, in the county of Guernsey and State of Ohio, have invented certain new and useful Improvements in Adhesive Compositions; and we 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in a composition of matter adapted to coat roofing and it has for its object among others to provide an improved adhesive compound for roofing.

The objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

In the accompanying drawings is shown in Figure 1 a perspective view, and in Fig. 2 an end view or cross section of a portion or sheet of the roofing embodying the present invention.

Like letters of reference indicate like parts in both views.

In carrying out the invention a sheet of the roofing, either of tin, iron, or any other form of metallic roofing, is coated upon one side in any suitable manner with the material which serves to form the union between the metal and the felt. The felt is then placed upon this adhesive coating and the same run together through cold rolls, after which they are dried in any suitable manner.

Any kind of felt may be employed, but it is preferable to so manufacture it that there will be a raw under side so that it will more readily and better adhere and form a better union with the metal and adhesive material.

The adhesive material preferred is composed of ten parts coal tar, five parts pitch, one part gum asphaltum, and one part crude rubber, tempered and hardened with alum and Spanish whiting in equal parts. These materials in these proportions have proved a most efficient compound for the purpose but the same may be varied within certain limits without materially affecting their adhesive propensities and it is therefore not intended

to restrict this application to the exact proportions stated.

While roofing alone has heretofore been mentioned it will of course be understood that the invention is applicable as well to siding, and metallic covering of all kinds and to whatever use it may be put.

The roofing or siding may be corrugated as shown or it may be without corrugations; in whatever shape it is formed the lining adheres to the metal. It may be rolled or otherwise compressed into fanciful designs if desired.

In the drawings A is the metal, and B the lining; C designating the layer of adhesive material between the two, being shown in Fig. 1 as they appear before compression, and in Fig. 2 as they appear after compression in which latter condition they are practically a homogeneous mass.

It is deemed important that the adhesive composition used to unite the felt and metallic sheet be of such a nature that it will not become hard and crack, as where glue and other analogous substances are employed as heretofore. Where such substances are employed the adhesive substance becomes cracked and broken by the movement of the roofing by the wind when upon the roof and also by handling preparatory to securing it in place; with our composition such is not the case. It remains yielding and the roofing can be made to assume any and all shapes without in the least destroying the adhesion between the parts or opening cracks for the wind and rain to work its way into.

What is claimed as new is—

1. The herein-described adhesive compound for metallic coverings, the same consisting of coal tar, pitch, gum asphaltum, and crude rubber, as set forth.

2. The herein-described adhesive composition for metallic coverings and the like, consisting of coal tar, pitch, gum asphaltum, and crude rubber, with alum and whiting, as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM L. STANLEY.  
THOMAS C. STANLEY.

Witnesses:

J. B. WIKOFF,  
JNO. L. LOCKE.