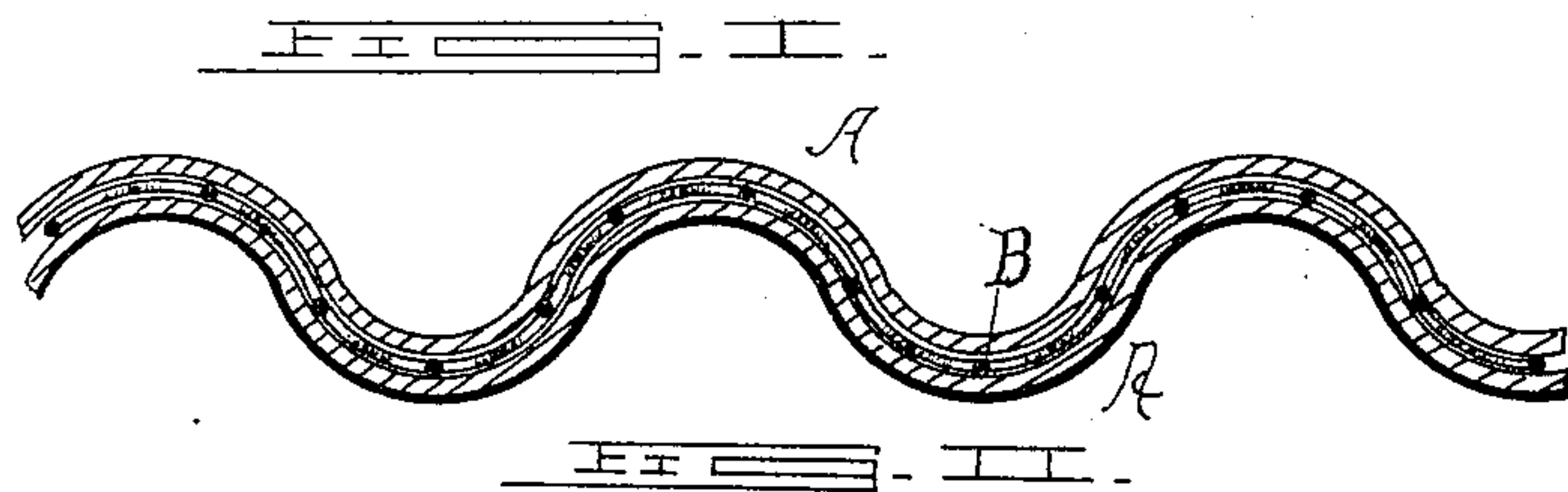
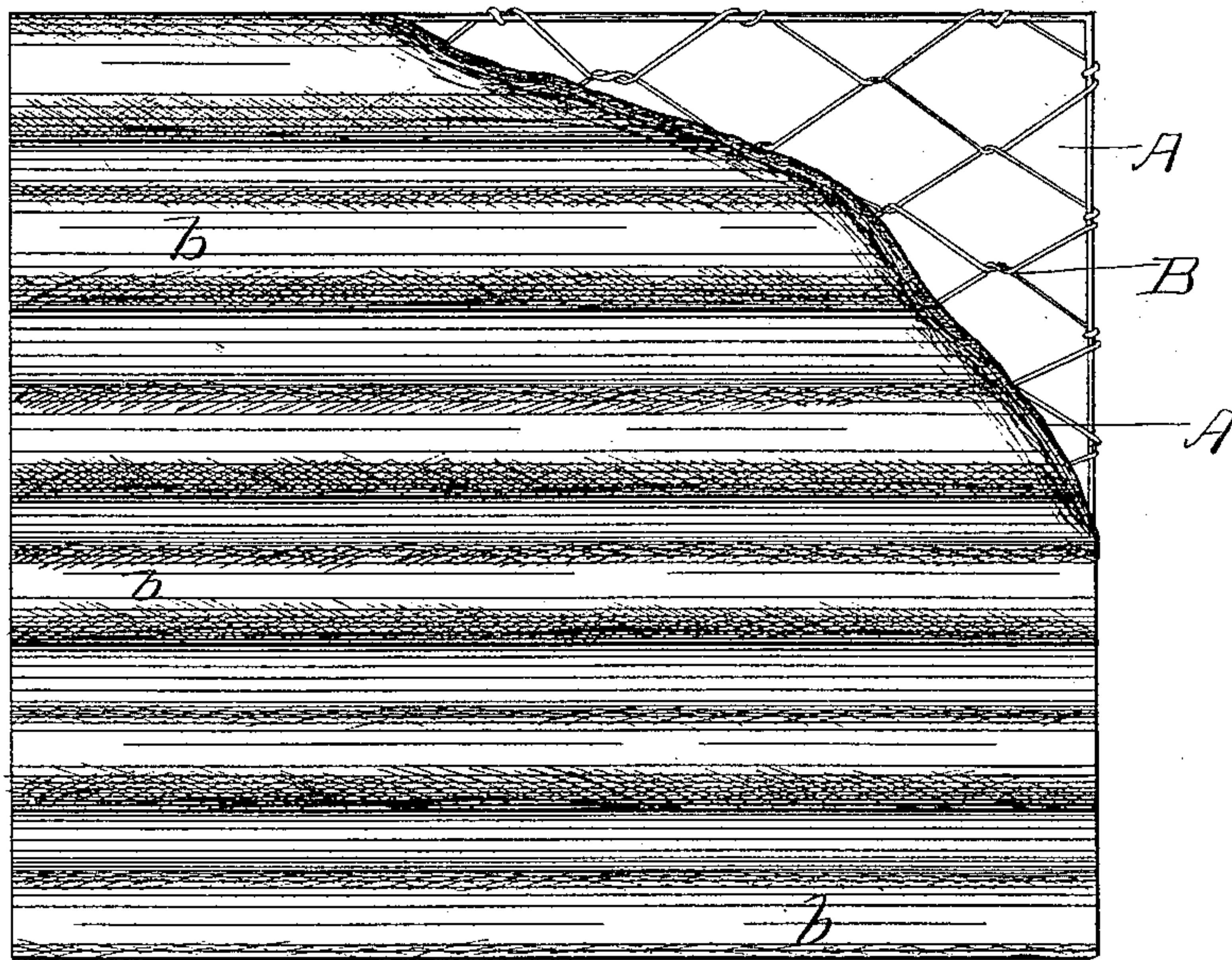


(No Model.)

G. A. HERDMAN.
FELT ROOFING.

No. 403,588.

Patented May 21, 1889.



Witnesses:-
E. H. Bond,
C. H. Haeder.

Inventor:
Geo. A. Herdman
By atty J. M. Kalk

UNITED STATES PATENT OFFICE.

GEORGE ALBERT HERDMAN, OF LONDON, COUNTY OF MIDDLESEX, ENGLAND.

FELT ROOFING.

SPECIFICATION forming part of Letters Patent No. 403,588, dated May 21, 1889.

Application filed September 27, 1887. Serial No. 250,852. (No model.) Patented in England March 11, 1887, No. 3,742.

To all whom it may concern:

Be it known that I, GEORGE ALBERT HERDMAN, a subject of the Queen of England, residing in London, in the county of Middlesex and Kingdom of England, have invented certain new and useful Improvements in Felt Roofing, (for which I have applied for Letters Patent in England, No. 3,742, dated March 11, 1887;) and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to felts, and has for its object the provision of an improved rigid felt-ing material having corrugations or flutes for general use in the arts, as for roofing and other purposes.

The invention consists in the combination of two or more sheets of felt with an intervening sheet or web of woven wire or other interstitial material, all of said thicknesses being corrugated or fluted. In this way a material is formed which has all the properties of ordinary felt and the added qualities of rigidity and self-support, which cannot be attained with ordinary felt or with materials having an interstitial web without corrugations.

The accompanying drawings illustrate the invention.

Figure 1 is a plan view of the completed

material, with the corner of one piece of felt turned up. Fig. 2 is a section of a portion of the same, showing the corrugations more clearly.

A A are two or more thicknesses of felt, and B is the interstitial web laid between the two felts and connected thereto by heat. After or in the process of uniting the parts the several thicknesses composing the completed material are corrugated or fluted by running through rollers or in dies, so that the material has a rigidity which it could not have without the interstitial web and a stiffness and self-support which it could not have without the corrugations or flutes, and which a felt made up without an interstitial web would not fully possess when new and would have no trace of when old, so that the corrugated material composed of felt sheets and an intermediate interstitial web possesses qualities which are not attained aside from this construction.

What I claim, and desire to secure by Letters Patent, is—

A corrugated felt material composed of two or more sheets of felt and an intermediate interstitial web of metal united and corrugated, as set forth.

GEORGE ALBERT HERDMAN.

Witnesses:

GEO. J. B. FRANKLIN,

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Both of 17 Gracechurch Street, London, E. C.