Sept. 15, 1931. F. F. COOPER 1,822,987

FASTENING FOR INSULATING JACKET

Filed Dec. 12, 1927

FIG. 1

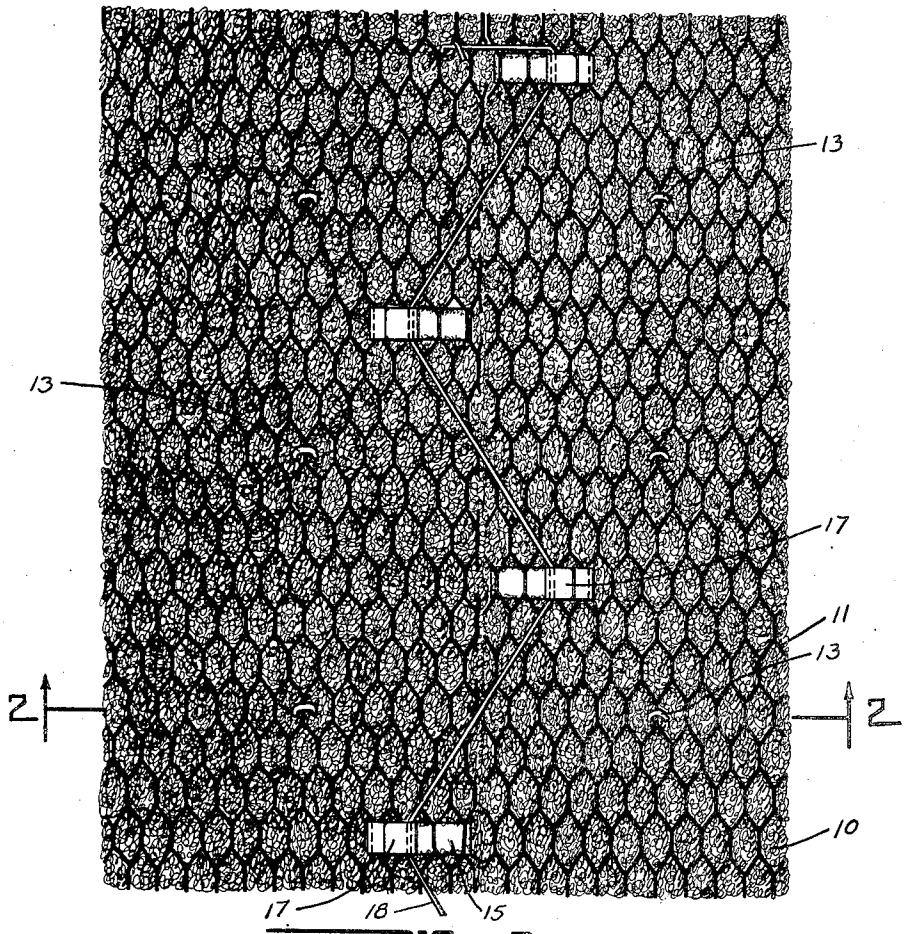


FIG. 2

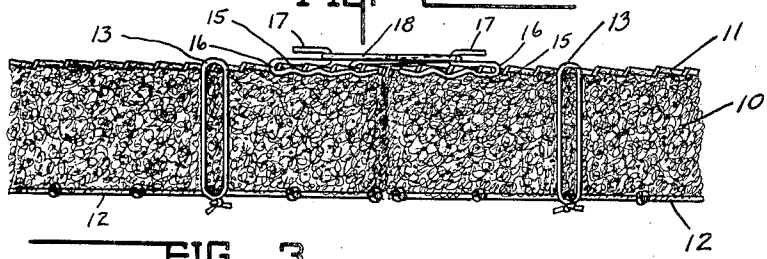
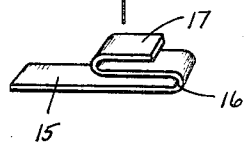


FIG. 3



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UNITED STATES PATENT OFFICE

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FASTENING FOR INSULATING JACKETS

Application filed December 12, 1927. Serial No. 239,503.

This invention relates to means for lacing or securing together sections of insulating material, and particularly such material as is adapted to be secured to surfaces of relatively large area, such as large tanks, boilers, and the like, as well as flat surfaces.

The principal object of the invention is to provide an arrangement for conveniently and economically securing sections of insulating material together so that they abut edge to edge in the form of a plurality of sections of such area as may be convenient to handle.

The principal feature of the invention resides in providing a plurality of hooks which may be readily inserted in the mesh of the fabric covering used for holding the insulating material in place, said hooks being arranged for convenient insertion or removal with respect thereto and positioned in staggered relation on each side of the joint in such a manner as to be laced together by passing a wire back and forth across the joint.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims.

In the drawings, Fig. 1 is a plan view showing two sections of material laced together. Fig. 2 is a section taken on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of one of the hooks.

In the drawings there is shown a covering of insulating material 10 such as rock wool or the like, which is held in place in the form of a flat, pad-like structure by the wire screen or metal lath material 11 and 12. The insulating material or rock wool 10 is secured between the mesh or wire screen or metal lath 11 and 12, as best illustrated in Fig. 2, and is anchored therebetween by the wire ties 13.

Such fabricated insulating material is commonly used on surfaces of large area as well as about pipes of relatively small diameter. When used on large boilers, tanks or flat surfaces, it may be necessary to apply a relatively large number of sections thereto, such sections being of dimensions suitable for handling and transportation. Difficulty has heretofore been experienced in suitably tying such sections together on or about such surfaces of large area.

As herein shown, there are provided a plurality of metal hooks or clips having a shank portion 15 folded on itself at 16 and bent to form a hook 17. The shank portions 15 theref are formed of such length and width as to permit them to be conveniently inserted under the wire mesh 11 adjacent the edge thereof and extending toward the same, so that the fold 16 embraces a portion of the wire mesh. When it is desired to mount such material in place, said hooks may be readily inserted along the adjacent edges of the sections as shown in Fig. 1. Thereupon, either before or after the mounting of the sections, depending upon the nature of the installation, said sections may be firmly tied together by lacing the wire 18 back and forth in the portions 17 of the hooks positioned in staggered relation on each side of the abutting edges of said sections.

From the above, it will be noted that the hooks may be quickly inserted or removed from place in the wire fabric or screen 11 and laced together by the wire 18 without difficulty or delay.

If desired, and as will be more practical in most instances, the hooks may be crimped into the wire mesh so that they will not fall out when the material is fabricated at the factory, as illustrated in Fig. 2. By thus crimping the hooks into position, after the sections are placed, all that is necessary to secure them togther is to string the wire lacing back and forth across the seam or abutting edges and then draw it tight and secure it as shown at the top of Fig. 1.

As such material is often plastered over with an insulating cement, when this is done, the wire lacing acts as a reinforcement for the cement, and the cement keeps the wire lacing from slipping and protects it from corrosion. Thus, a very satisfactory and permanent structure is secured.

The invention claimed is:

1. In an insulating jacket, the combination of a plurality of sections of insulating material having a metal fabric covering, com-

prising a plurality of interstices, of means for securing said sections together including hook-like members adapted to be inserted in said interstices, and a wire passing about said hook-like members from one to the other across the seam formed between the abutting edges of said sections for drawing the same together and securing them in position.

2. In an insulating jacket, the combination of a plurality of sections of insulating material having a wire fabric covering therefor, comprising a plurality of interstices, of means for securing said sections together including a plurality of hook-like members having relatively long shank portions adapted to be inserted in said interstices and extend under said wire fabric, and a wire lacing member adapted to be passed within the outwardly extending hook portions of said members from one to the other across the seam formed between said sections for drawing said sections together and holding them bound firmly in place.

In witness whereof, I have hereunto affixed my signature.

FLOYD F. COOPER.