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P. M. TAFT

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JACKET FOR COVERINGS FOR STEAM OR OTHER PIPES

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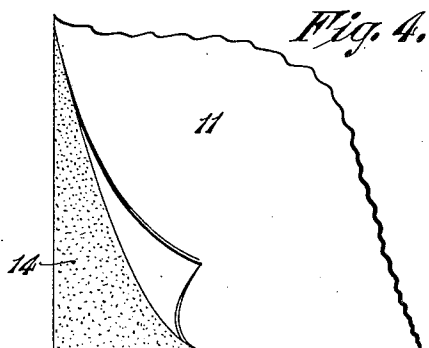
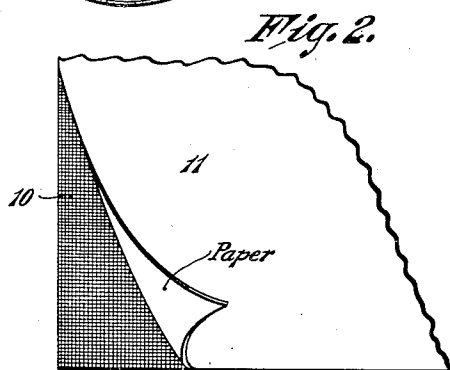
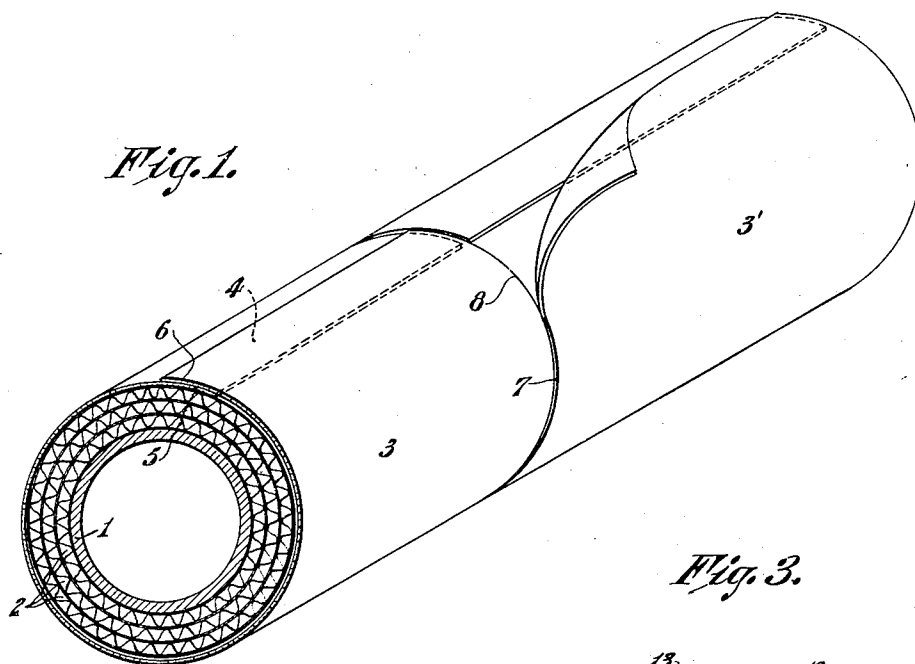


Fig. 3.

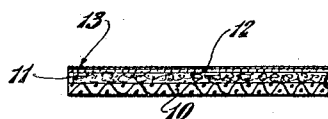


Fig. 7.

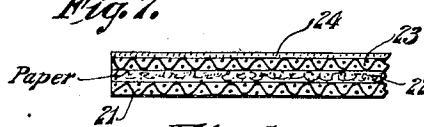


Fig. 5.

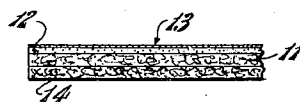
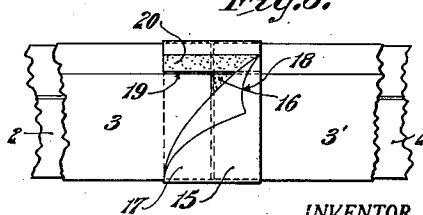


Fig. 6.



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JACKET FOR COVERINGS FOR STEAM OR OTHER PIPES

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This invention relates to improvements in jackets for coverings for steam or other pipes.

An object of my invention is to provide a finished, painted jacket for pipe coverings which is more economical of manufacture and installation than any of the devices used for similar purposes now in use and on the market.

A further object of my invention is to eliminate the necessity for employing metal clamping bands or straps in use at present to cover unsightly butt joints in pipe coverings, and for retaining the coverings of insulation in place.

Other objects and advantages of my invention will appear in the specifications with reference to the drawings, and appended claims.

At the present time, much difficulty is experienced in finishing the various types of pipe coverings so that they will present a neat, finished and workmanlike appearance. With either air cell, or magnesia pipe coverings, if finished with a canvas jacket, metal bands are usually employed to cover the butt joints, the lateral joints must be hidden from view, if possible, and, due to the porosity of the covering, several coats of sizing and paint must be applied in order to present a finished appearance. An alternative to this method is to use a sewed canvas jacket over the covering. This method eliminates the use of metal bands and possibly one coat of sizing, but is in itself a laborious and costly operation. Furthermore, the stitching, which cannot always be concealed, presents an unsightly appearance. All these unsatisfactory conditions are eliminated, and at a decided reduction in expense, by the use of my invention.

Broadly, my invention comprises a sheet of thin cloth or fabric to which is secured by any suitable adhesive material a sheet of glazed colored paper, thus forming a strong pliable jacket material which incorporates the finished color as an integral part thereof. As this material is manufactured complete at the factory, and delivered in rolls of any desired size, it will be readily understood that

no painting of the covering is required after installation.

A preferred form of my invention is illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view showing a pipe covered with air cell covering and finished with my improved jacket material.

Fig. 2 is an elevational view of a piece of the jacket material with a corner of the glazed, colored paper rolled back to show the cloth foundation.

Fig. 3 is a detail sectional view of the material.

Fig. 4 is a view similar to Fig. 2, showing a modified form using as a foundation asbestos paper instead of cloth.

Fig. 5 is a detail sectional view of the material illustrated in Fig. 4.

Fig. 6 is an elevational view of a section of covered piping showing a band of my jacket material covering a butt, and

Fig. 7 is a further modification of jacket material covering.

Referring to the drawings in detail, in which like numerals refer to like parts throughout:

A pipe 1 is covered with the air cell covering 2, three layers being shown. The jacket 3 is wrapped around the outer layer of the covering 2 and with the edges lapped over as shown at 4, preferably on the upper side of the pipe 1. The overlapping edge 6 is secured to the edge 5 by any suitable adhesive material. The end 7 of the next section of jacket 3' terminates with the adjacent end 8 of the jacket 3, which is flush with the end of the covering 2. In other words, the ends 7 and 8 form a butt joint.

The jackets 3 and 3' are permanently pasted or secured in any way to the pipe coverings 2, each of which corresponds with the lengths of the coverings and forms a butt joint when assembled on the pipe 1. These joints are then preferably covered with the band 15 shown in Fig. 6, as will be described.

The jackets 3 and 3' are composed of a layer of cloth 10 and a layer of glazed, colored paper 11, secured together with any suitable heat resisting adhesive material, thus

forming a pliable, strong jacket material which may be bent or folded without cracking, when it is applied to the covering. The paper 11 may be integrally colored, or it may be finished with a coat of paint 12 and glazing 13, but the paint does not, as a rule, readily adhere to the paper, so I preferably employ the jacket shown in Fig. 7 where two layers of cloth are employed and the paint applied to the cloth.

A modified form of jacket is shown in Figs. 4 and 5, in which a layer of asbestos paper 14 serves as a foundation material instead of the cloth 10 and the glazed paper is applied directly to the asbestos paper and then calendered.

For the purposes of illustration only, I have shown my jacket used with air cell covering, but it will be readily understood that any form of covering, including joints, fittings, and flanges, may be easily and quickly jacketed by the use of my device.

A further use for my jacket material is illustrated in Fig. 6. The jackets 3 and 3' are applied as described for Fig. 1, the end joints of the coverings and jackets butted. A strip of jacket material 15, approximately three inches wide, is wrapped around the butted end joints of the coverings and jackets 3 and 3', as indicated, and secured to one of the jackets 3' by a suitable adhesive material 16. The part 17 of the jacket strip 15, which overlies the jacket 3, is not secured thereto, thus permitting the strip 15 to move with the jacket 3' and independent of the jacket 3 to form an expansive joint. The longitudinal edges 18 and 19 of the strip 15 are lapped and secured together by a suitable adhesive material 20.

It is obvious that the strip 15 may be used, if desired, to cover butt joints in pipe covering, omitting the pipe covering jacket 3 and 3'.

When the thin glazed paper is placed upon a layer of asbestos so as to form a jacket, the glazed paper will prevent the subsequent crumbling of the asbestos paper and will also render the same to some extent moisture-proof.

Referring to Fig. 7 the pipe covering jacket is composed of a layer of cloth 21, then a layer of paper 22, next a layer of cloth 23 and finally a finished coating of paint 24 of any desired color or gloss. I find that this composite jacket enables the finished coat of paint 24 to firmly adhere to the second layer of cloth 23. I may, if desired, provide a glazed coating to the painted surfaces 12, 13 and 24 of the jacket shown in Figs. 3, 5, and 7.

What I claim is:

1. An insulating covering comprising a plurality of abutting sections of insulating material, jackets for said sections, said jackets being secured to said sections and an extension upon one of said jackets overlying

but not secured to an end upon an adjacent jacket to cover closely the abutting ends of said sections and permit expansion and contraction thereof without uncovering said abutting ends.

2. An insulating covering comprising a plurality of abutting sections of insulating material, jackets for said sections, said jackets being secured to said sections and a band secured to one of the abutting ends of said jackets and closely overlying an end of an adjacent jacket to permit relative movement of the adjacent section and to cover the abutting ends of said sections and permit expansion and contraction thereof without uncovering said abutting ends.

3. An insulating cover comprising a plurality of abutting sections of insulating material, jackets for said sections, said jackets being secured to said sections, a band of flexible material comprising a layer of asbestos and a layer of paper rigidly secured to one only of the abutting ends of said jackets and overlying an end of an adjacent jacket to cover the abutting ends of said sections and permit expansion and contraction thereof without uncovering said abutting ends.

4. An insulating cover comprising a plurality of abutting sections of insulating material, jackets for said sections, said jackets being secured to said sections, and a band of flexible material comprising a layer of cloth and a layer of paper, both of said layers being secured together by an adhesive substance, said band being secured to one of the abutting ends of said jackets and slidably engaged with an end of an adjacent jacket to cover the abutting ends of said sections and permit expansion and contraction thereof without uncovering said abutting ends.

5. A finished insulating pipe covering comprising a first layer of insulating material, a jacket material comprising a layer of asbestos paper and an exterior layer of thin glazed paper said last two mentioned layers being secured together by an adhesive substance and said last two mentioned layers being secured by an adhesive substance to said first layer of insulating material.

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