

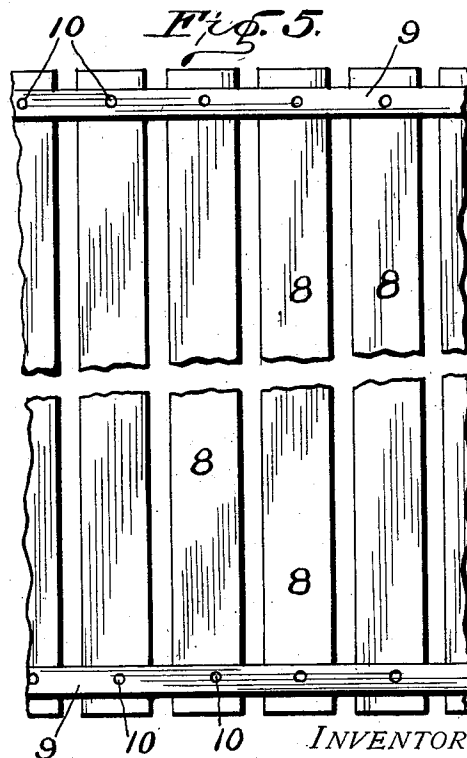
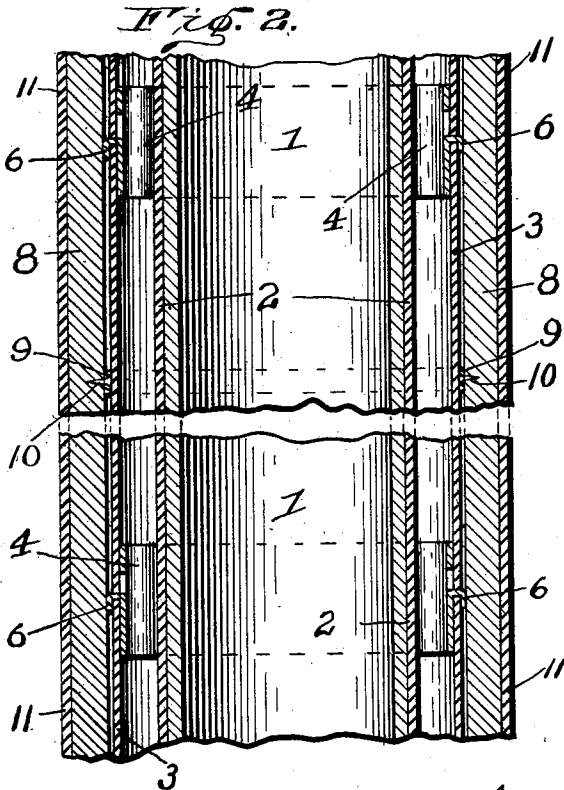
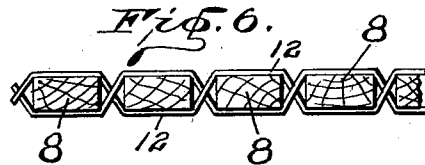
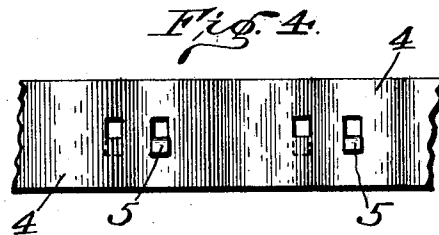
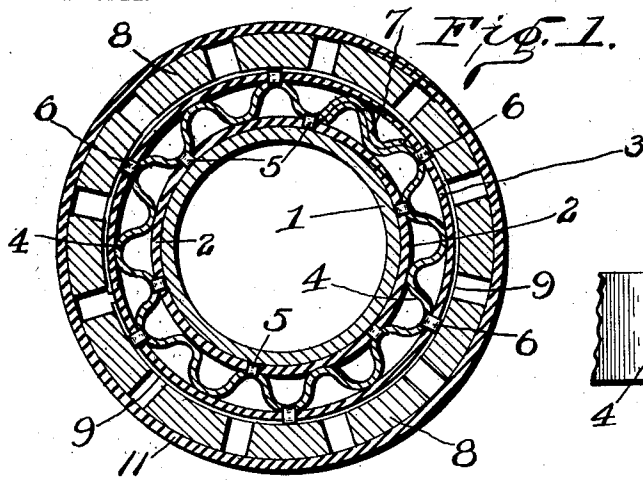
No. 732,299.

PATENTED JUNE 30, 1903.

R. HOLDEN.
JACKET FOR STEAM OR AIR PIPES.

APPLICATION FILED MAR. 14, 1903.

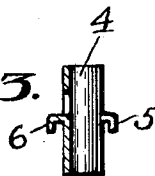
NO MODEL.



WITNESSES:

Fig. 3.

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UNITED STATES PATENT OFFICE.

REUBEN HOLDEN, OF NORTH KINGSVILLE, OHIO.

JACKET FOR STEAM OR AIR PIPES.

SPECIFICATION forming part of Letters Patent No. 732,299, dated June 30, 1903.

Application filed March 14, 1903. Serial No. 147,804. (No model.)

To all whom it may concern:

Be it known that I, REUBEN HOLDEN, a citizen of the United States, residing at North Kingsville, in the county of Ashtabula and State of Ohio, have invented certain new and useful Improvements in Jackets for Steam or Air Pipes; and I do hereby 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.

My invention relates to certain new and useful improvements in jackets for steam and hot-air pipes, and my object is to so construct and assemble the parts that a minimum amount of material is required to accomplish the desired result, and thus enable me to furnish the material at a very small cost.

A further object is to make the several parts in sections, so that it may be kept in stock ready to assemble, so that any one slightly acquainted with the art may apply the same to use.

Other objects and advantages will be hereinafter more fully set forth.

In the accompanying drawings, Figure 1 is a horizontal sectional view of pipe with my device assembled thereon. Fig. 2 is a vertical longitudinal sectional view thereof. Fig. 3 is a sectional view of one of the metal bands employed in connection with my device. Fig. 4 is a detail plan view thereof. Fig. 5 is a detail plan view of a section of the material used to support and brace the material used; and Fig. 6 is a view of the same, showing a modified form of securing the parts together.

In carrying out my invention the various details will be designated by numerals, the same numeral applying to a similar part throughout the several views.

Referring to the numerals upon the drawings, 1 indicates a pipe such as is commonly used for conducting steam, &c., from one place to another. Immediately surrounding the pipe 1 is a sheet of asbestos 2 or the like, said sheet being adapted to fit closely around said pipe 1. Another sheet of asbestos 3 surrounds the pipe 1, but it is my desire to place said sheet at some distance from sheet 2, thereby forming an annular air-chamber between said sheets. In order to retain the sheets 2 and 3 in their proper relation to each

other, I interpose between them at intervals corrugated metal bands or rings 4, said rings having tongues 5 and 6, formed by striking out portions of the walls of the bands 4. The tongues 5 take through the sheet 2 and are bent down, and likewise the tongues 6 are passed through the sheet 3 and bent down, thus securely fastening said sheets to the bands 4. The bands 4 are preferably made in strips, as shown, and thus adapted to fit any-size pipe, it being only necessary to overlap the free ends thereof, so that one or more of the corrugations interlock with each other, as clearly shown in Fig. 1 at 7, thus forming a ring and holding the same securely together.

Immediately surrounding the parts just described is a series of stays 8, said stays being made in sections of predetermined lengths and when placed in position form a cordon around the pipe and parts interposed between them, thus affording a brace as well as a protection to said parts. The stays 8 are spaced a certain distance apart and held securely in place by means of strips 9, fastened to the face of each stay by means of nails 10 or otherwise, as best shown in Fig. 5. It will be seen that by having the members 8 thus spaced apart air-chambers are formed between said members. An additional sheet of asbestos 11 is placed outside of and surrounds the members 8.

In Fig. 6 I have shown a modified form of means for securing the stays 8 together, wherein wires 12 are used instead of the strips 9, and in this instance the wires are interwoven between the stays similar to a woven picket fence, thus permitting a long string of said stays to be woven together, and when ready to use the proper length to surround the pipe and parts interposed may be cut therefrom and put in place upon the pipe. Other means may be used for uniting said stays, it not being essential what means is employed.

It will now be seen that I have provided a cheap and durable device for the purpose intended and one wherein all of the several parts may be kept in stock ready to be applied to use and does not require the services of one especially skilled in the art to place the several parts together. A further point to be considered is the small amount of material used in accomplishing the same result as in

other methods now employed, wherein a large amount of material is used.

While I have described the preferred construction and combination of parts deemed
 5 necessary in materializing my invention, such substantial equivalents and substitutes as may be considered as falling fairly within the scope of my invention are comprehended.

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

A jacket for hot water or air pipes, comprising a series of corrugated bands 4; a cov-

ering of asbestos on both sides of said bands; means to secure said bands to said asbestos; 15 stays surrounding said bands and asbestos, said stays being spaced apart to form air-chambers; means to retain said stays in their spaced positions, and asbestos enveloping said stays, all combined substantially as set forth. 20

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

REUBEN HOLDEN.

Witnesses:

O. M. PARKER,

R. T. WOODWORTH.