

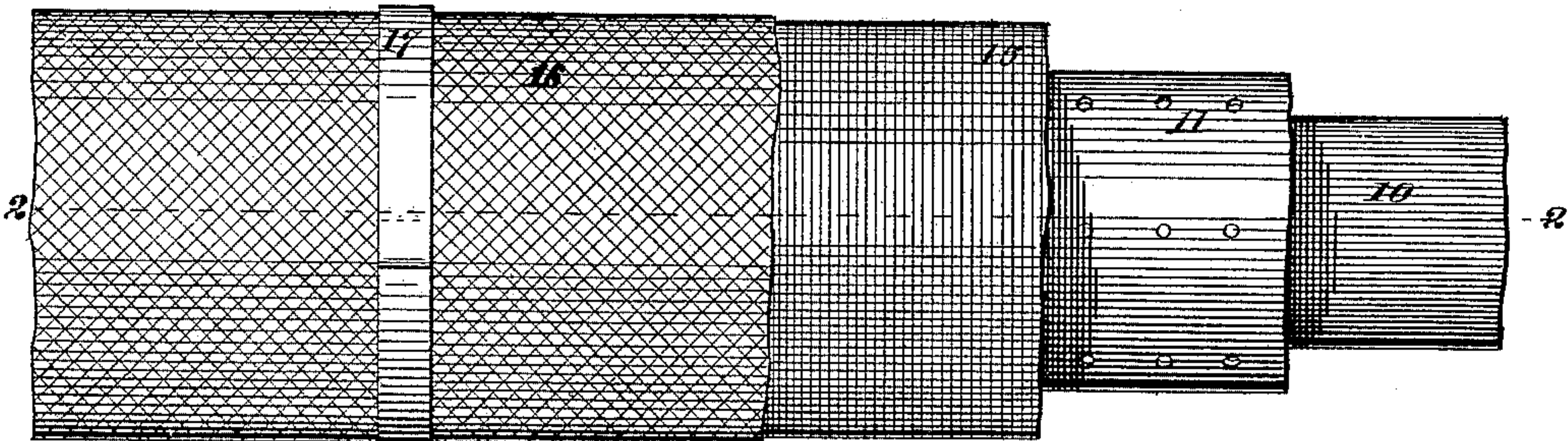
(No Model.)

A. F. HURST.  
COVERING FOR STEAM PIPES.

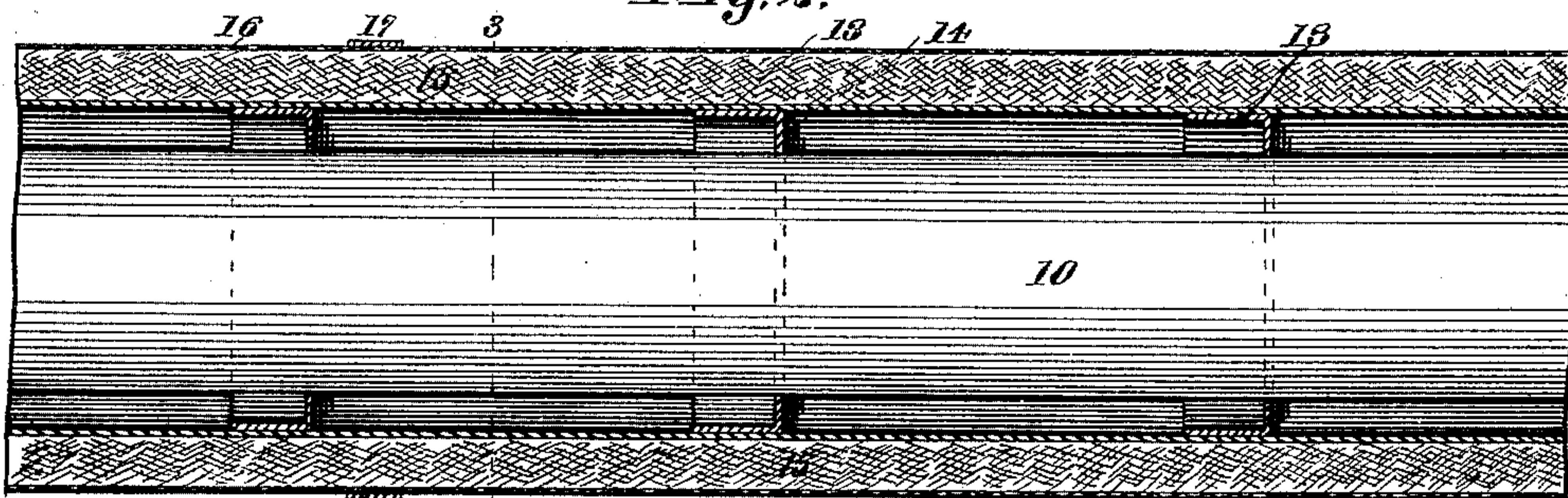
No. 462,047.

Patented Oct. 27, 1891.

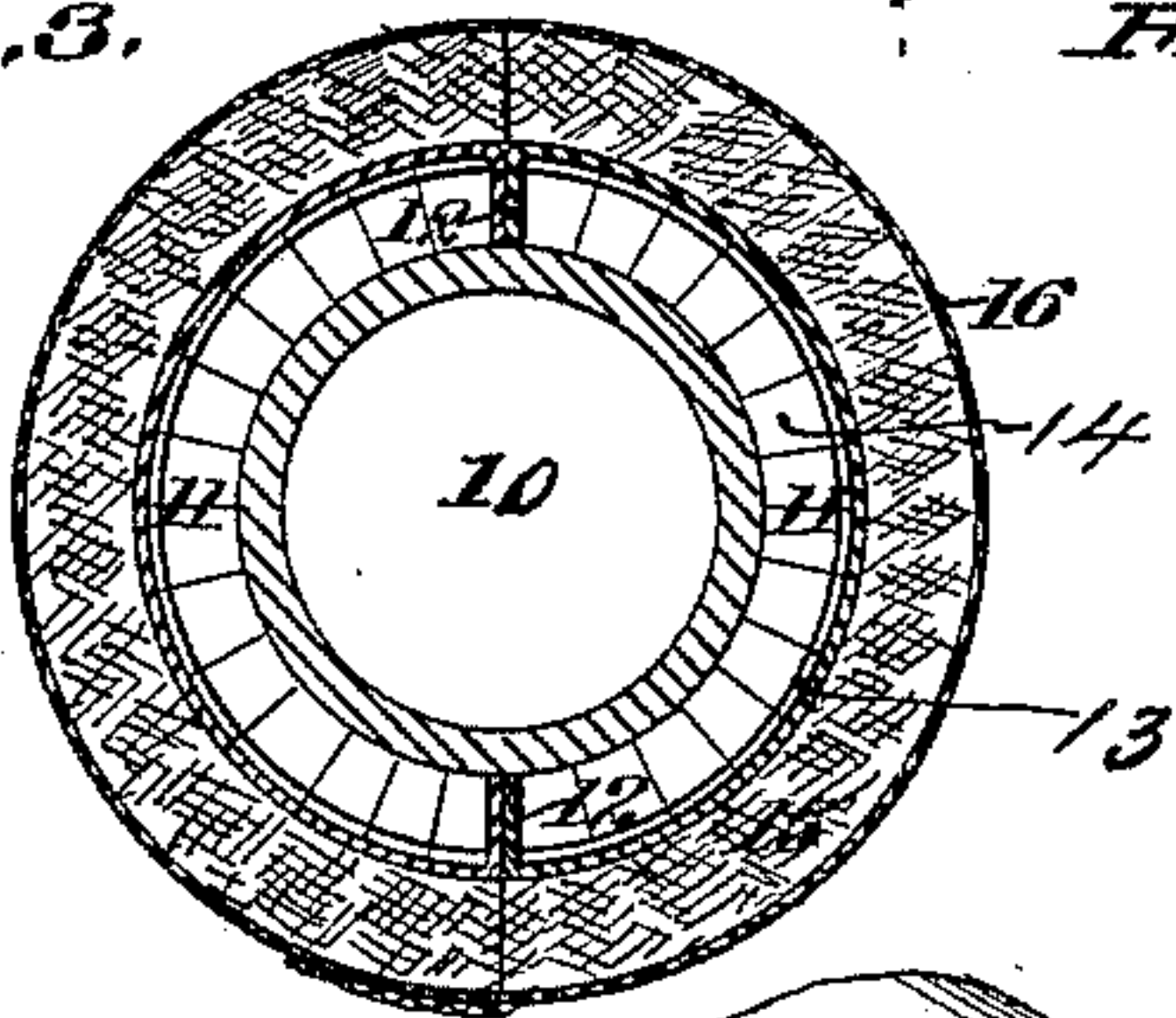
*Fig. 1.*



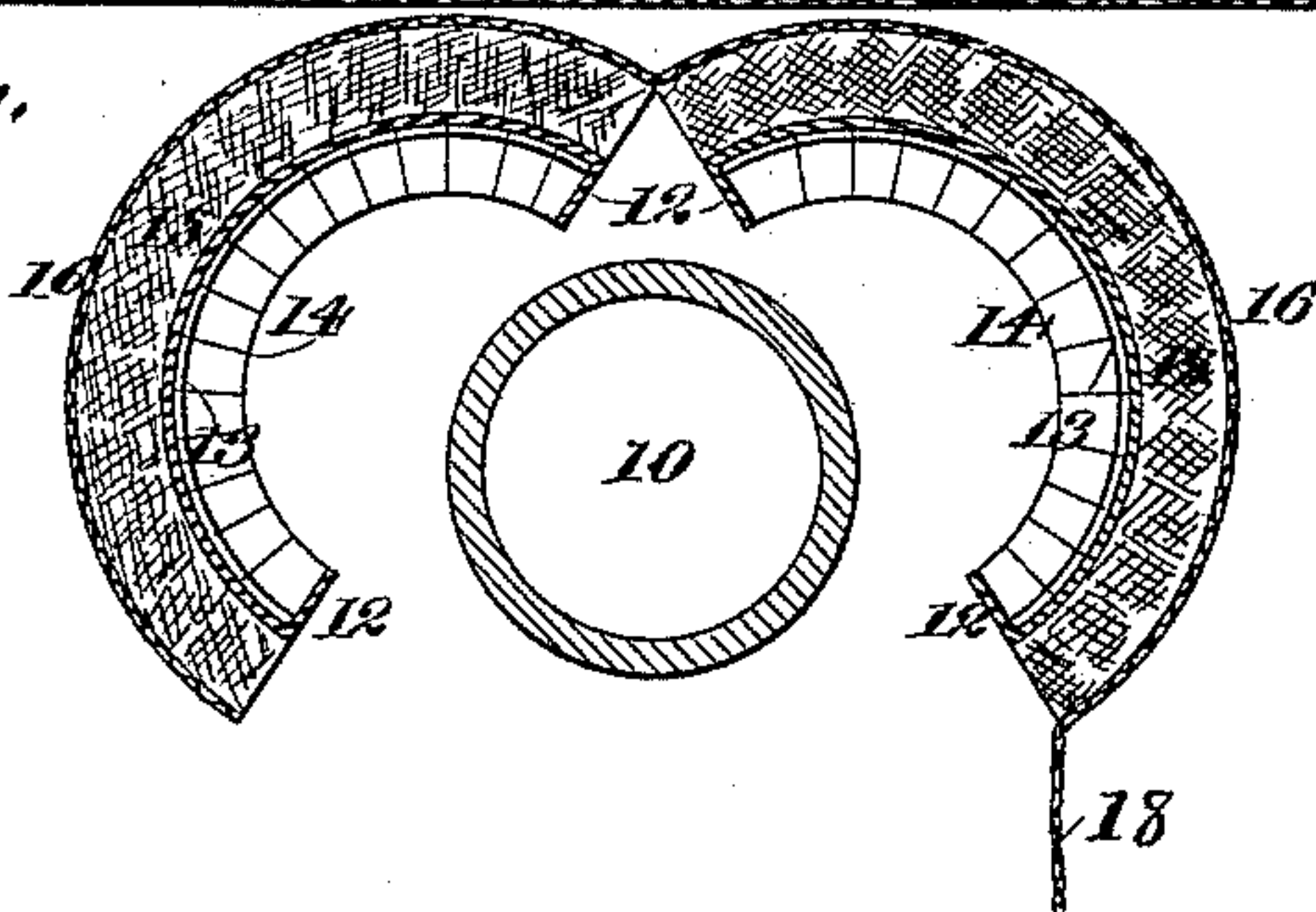
*Fig. 2.*



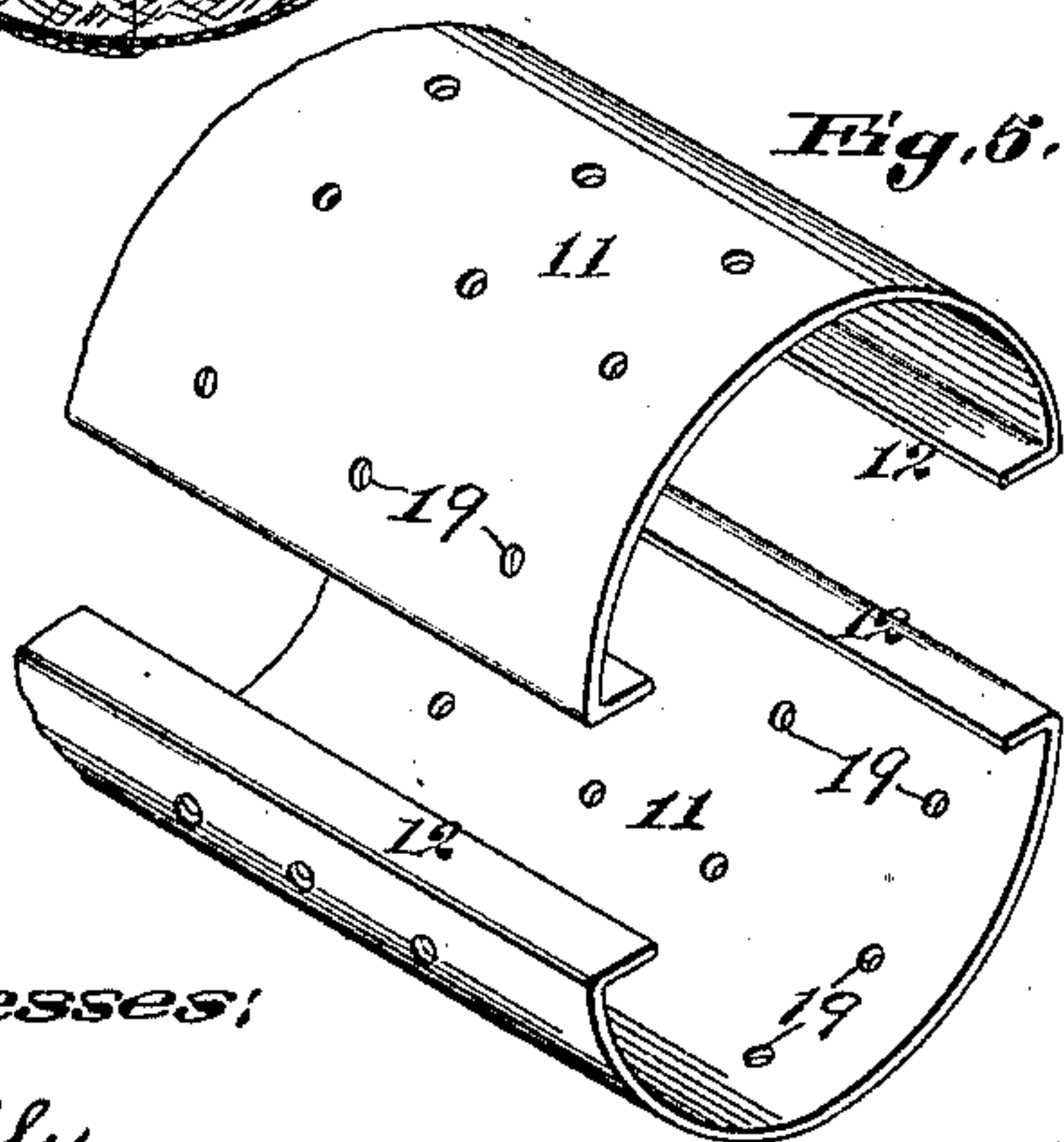
*Fig. 3.*



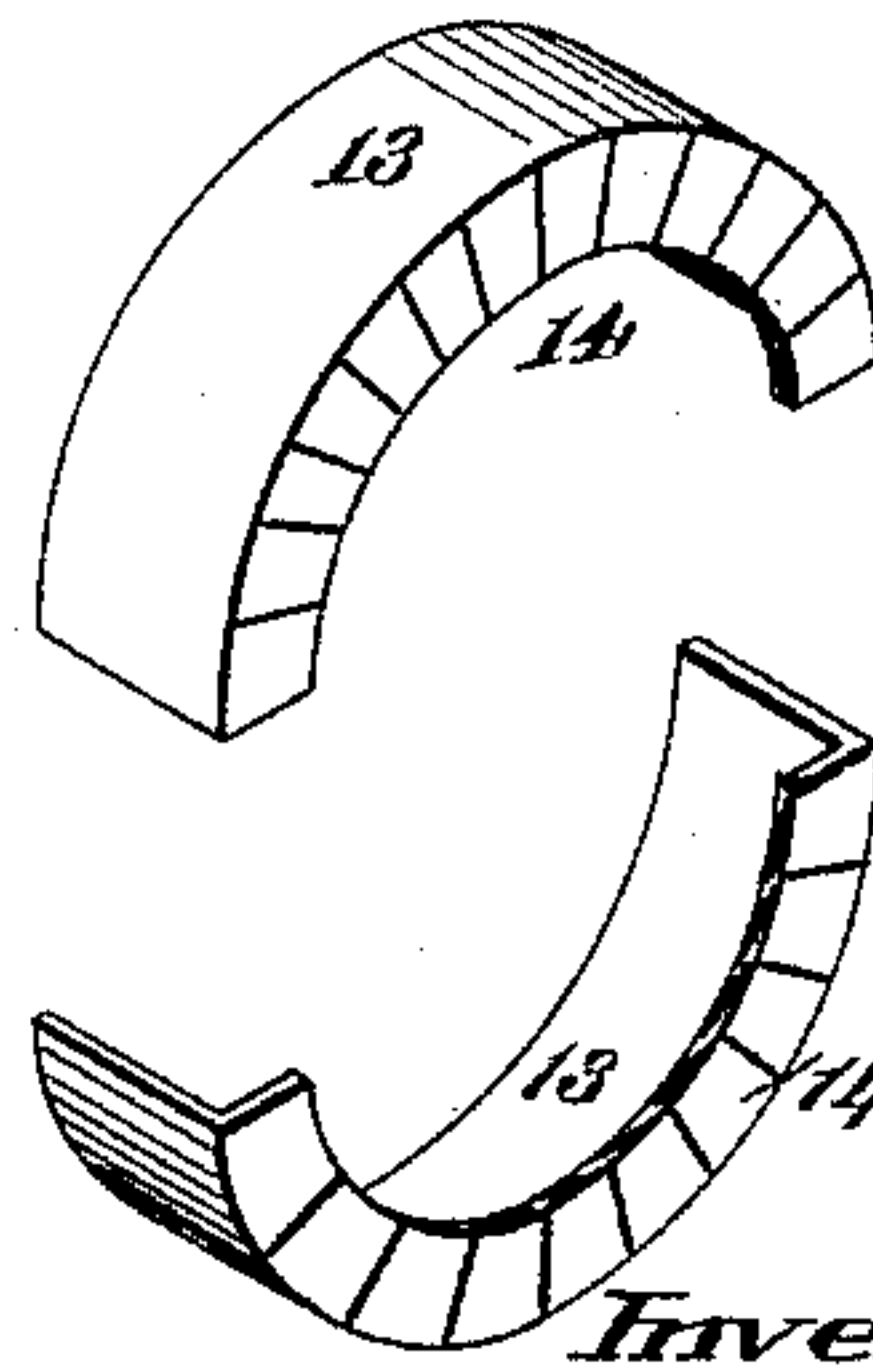
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Witnesses:

*E. T. Kelly.*

*Charles Pickles,*

Inventor:

*A. F. Hurst,*  
*By Fowler & Fowler*  
*Attorneys.*



# UNITED STATES PATENT OFFICE.

ALFRED F. HURST, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO  
POWELL JACKSON, OF SAME PLACE.

## COVERING FOR STEAM-PIPES.

SPECIFICATION forming part of Letters Patent No. 462,047, dated October 27, 1891.

Application filed May 8, 1891. Serial No. 392,085. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED F. HURST, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented  
5 a new and useful Covering for Steam-Pipes, &c., of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being  
10 had to the accompanying drawings, forming part of this specification.

My invention relates more particularly to non-heat-conducting coverings for steam-pipes, but may be used for covering other  
15 objects.

The invention consists of a two-part sheet-metal casing or covering which surrounds the steam-pipe and is held out of contact therewith by detachable collars which rest  
20 against the steam-pipe, leaving an air-space between the steam-pipe and the said metallic covering, around which may be placed a non-conducting substance, which is, if preferred, covered by some textile material, about which  
25 bands may be placed to hold the parts of the covering together.

The invention will be best understood by referring to the accompanying drawings, in which—

30 Figure 1 is an elevation of my invention cut away at different levels to more clearly show the construction. Fig. 2 is a longitudinal central section on the line 2 2 of Fig. 1; and Figs. 3 and 4 are transverse sections on the line 3 4 of Fig. 2, Fig. 3 illustrating the  
35 covering when applied to a steam-pipe and Fig. 4 showing the covering when being applied to a steam-pipe. Fig. 5 is an isometric projection showing the two-part metallic casing, and Fig. 6 is an isometric projection showing the detachable collars which hold the  
40 metallic covering or casing away from the steam-pipe.

The same marks of reference indicate the same parts throughout the several views.

10 is a steam-pipe or other object, and 11 is a two-part metallic covering therefor, which is made substantially as shown in Fig. 5 and may be of any suitable length. It consists,  
50 preferably, of two semicircular parts, each by

preference having the edges 12 turned inwardly, so that when the said parts are put together the edges 12 abut against each other, as shown in Fig. 3.

13 are semicircular collars having turned- 55 in edges 14, the periphery of the semicircular turned-in edges bearing against the steam-pipe when the covering is applied thereto and the ends of the semicircular collars coming against the turned-in edges 12 of the said 60 two-part covering. The collars 13 and the turned-in edges 14 may be formed from a single piece of sheet metal, which is cut along one edge at many places, (see Fig. 6,) the cut edges being bent at right angles to the body 65 of the collar and then rolled up into semicircular form, all as fully shown in Fig. 6. The body 13 of the collars rests against the interior periphery of the sheet-metal covering. As the collars are independent of the casing, 70 any number of them may be used, depending upon the diameter and thickness of the covering and the rigidity that the covering is to have. The collars are preferably used in sets of two, the individual ones of each set being 75 placed opposite each other, so as to form a completing, thus imparting greater rigidity to the covering than it would have if the individual collars were not used opposite each other. 80

About the metal covering may be placed a suitable non-heat-conducting substance 15, and around this substance is preferably placed some textile fabric 16, such as canvas or the like. The whole may then be held together 85 by suitable bands 17.

I have described the covering as it is when applied to a steam-pipe; but in practice this covering is made up in certain lengths ready for application to steam-pipes or other ob- 90 jects, and when so made up is substantially as shown in Fig. 4, where it is illustrated as being applied to a steam-pipe. The said covering is by preference constructed as described in semicircular parts, which are joined 95 together along one edge with an end 18 of the textile fabric left free. It is applied to a steam-pipe by opening the two parts, placing them around the pipe, then closing them upon the pipe, and gluing the free edge of 100



the textile fabric down upon the opposite  
semicircular part of the covering, where-  
upon the bands 17 may be placed around the  
whole at suitable distances apart. In order  
5 to hold the two-part metallic covering to  
the non-conducting material, I punch holes  
19 outward in the said metallic covering and  
drive it into the non-conducting material at  
various places. The raised metal of the me-  
10 tallic covering at the punched places takes  
into the non-conducting material, and thus  
holds the two together.

In practice the covering is made in lengths  
of twenty-eight feet with three sets of collars  
15 to each length; but any number of collars may  
be used, as desired. Where one length of the  
covering is not enough, two or more lengths  
are used, and the ends of each length made  
to abut against the ends of adjoining lengths,  
20 making an air-space surrounding the steam-  
pipe from end to end.

I am aware that steam-pipe coverings of

various descriptions have been devised here-  
tofore, and do not wish to be understood as  
claiming, broadly, the steam-pipe covering 25  
herein set forth.

What I wish to claim and secure by Letters  
Patent of the United States is—

A covering for steam-pipes and the like,  
consisting of a two-part metallic casing 11, 30  
with turned-in edges 12 abutting against each  
other; detachable collars 13, with turned-in  
edges 14 and engaging the periphery and  
turned-in edges 12 of each part of the metallic  
casing, and a non-conducting covering sur- 35  
rounding said casing.

In testimony whereof I have hereunto set  
my hand and affixed my seal, this 30th day  
of April, 1891, in the presence of the two sub-  
scribing witnesses.

ALFRED F. HURST. [L. S.]

Witnesses:

J. H. MCCORD,

A. C. FOWLER.