

(No Model.)

A. W. SHEARER.
COVERING FOR STEAM PIPES.

No. 505,560.

Patented Sept. 26, 1893.

Fig. 1

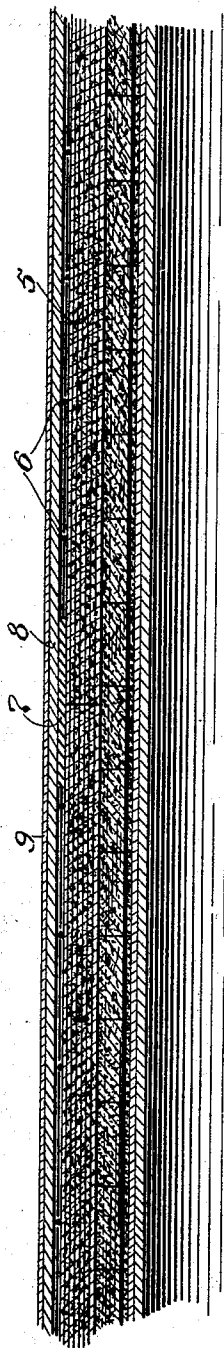


Fig. 3

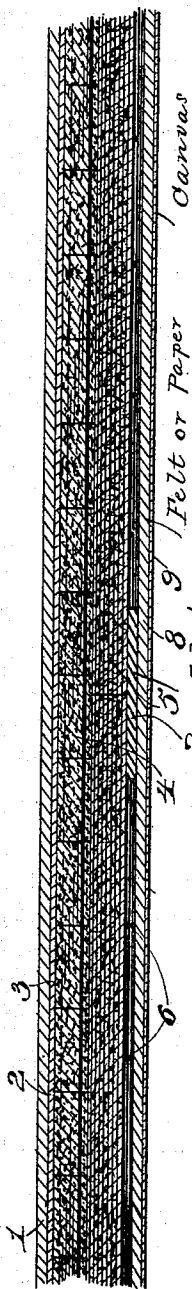


Fig. 2

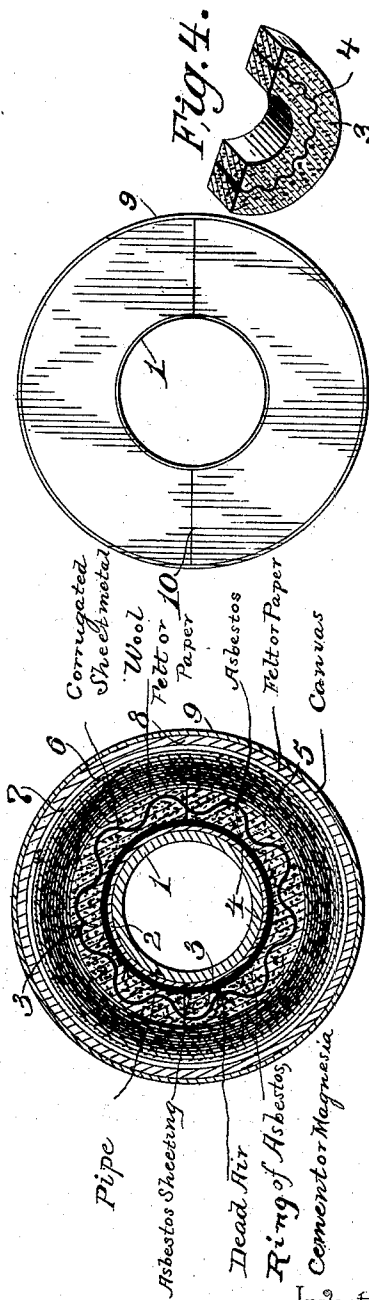


Fig. 4



Witnesses

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ALBERT W. SHEARER, OF OMAHA, NEBRASKA.

COVERING FOR STEAM-PIPES.

SPECIFICATION forming part of Letters Patent No. 505,560, dated September 26, 1893.

Application filed February 18, 1891. Renewed July 31, 1893. Serial No. 482,017. (No model.)

To all whom it may concern:

Be it known that I, ALBERT W. SHEARER, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented a new and useful Covering for Steam-Pipes, of which the following is a specification.

This invention relates to an improved non-conducting covering for steam pipes, boilers and the like, and it has for its object to provide a covering which shall be simple in construction, inexpensive and easily applied, which when necessary may be readily removed in order to afford access to the pipe or boiler and which shall be thoroughly efficient to prevent loss of heat by radiation.

With these ends in view the invention consists in the improved construction, arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the drawings hereto annexed: Figure 1 is a longitudinal sectional view of a portion of a steam pipe provided with an improved covering. Fig. 2 is a transverse sectional view of the same. Fig. 3 is an end view. Fig. 4 is a perspective detail of one of the semi-rings.

Like numerals of reference indicate like parts in all the figures.

1 designates a steam pipe of ordinary construction. This pipe is first covered with asbestos sheeting as shown at 2, said sheeting being evenly pasted on the pipe in suitable lengths.

Adjacent to the sheeting 2 are placed the semi-rings 3 which are made of suitable size to encircle the pipe 1 having the covering 2 when said semi-circular disks are placed with their ends together as clearly shown in Fig. 2. Said semi-rings may be made of a suitable mixture of asbestos, cement and magnesia, molded to the desired size and shape; if desired strips, as 4 of corrugated sheet iron may be employed to form a base for the said semi-rings upon which the plastic material of which they are formed may be molded, thus insuring additional strength.

Adjacent to the completed rings or disks 3 a covering 5 of wool, felt, paper, or similar material is placed, said covering being arranged in sections of three feet long, more or

less. This covering is wound around the rings or disks 3, twelve thicknesses, more or less, being employed, and said covering is secured by means of wires as shown at 6. Over the joints at the meeting ends of the sections or covering 5 are pasted the strips 7 of asbestos, and an outside wrapper, 8, of felt, paper, or similar material is then pasted in position. This is finally covered by means of a wrapper 9 of canvas which is likewise pasted smoothly in position, and this may be finally covered by means of one or more coats of fire-proof paint. The ends of the pipe or boiler may be covered by means of semi-circular finishing disks as 10.

The advantages of my invention will be readily understood from the foregoing description taken in connection with the drawings hereto annexed. The semi-rings 3 are fitted loosely so as to leave a column or stratum of dead air around the pipe (as seen by the black ring in Fig. 2.) This adds to the non-conducting qualities of the covering and it also permits the pipe to expand and contract freely without cracking or in any way injuring the covering.

The general construction and arrangement of the covering is simple and inexpensive and of such a nature as to permit a section or portion of the covering to be readily detached when desired in order to afford access to the pipe or boiler cover thereby.

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

1. In a covering for steam pipes boilers and the like the combination with the pipe having a covering of asbestos, of the semi-rings molded of plastic material surrounding the same and an outer non-conducting covering, substantially as set forth.

2. The combination of the inner covering of asbestos, the semi-rings of a plastic composition, a covering wound upon the same and secured by means of wires, strips of asbestos pasted over the joints at their meeting edges of such covering and the outer covering of felt, or equivalent material and canvas, substantially as and for the purpose set forth.

3. In a covering for steam pipes, boilers and the like, the herein described sectional rings formed of a plastic composition molded upon

base strips of corrugated sheet iron, substantially as and for the purpose set forth.

4. The herein described non-conducting covering for steam pipes, boilers and the like
5 the same consisting of an inner covering of asbestos, pasted upon the pipe or boiler, the sectional rings molded of a plastic composition, a covering of felt, paper or equivalent material wound spirally around the said rings,
10 strips of asbestos, pasted over the joints at the meeting ends of said spiral covering strips,

a wrapping of felt, paper or equivalent material, an outer covering of canvas and a coating of fireproof paint, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
presence of two witnesses.

ALBERT W. SHEARER.

Witnesses:

GEORGE S. GREEN,
W. W. HAMILTON.