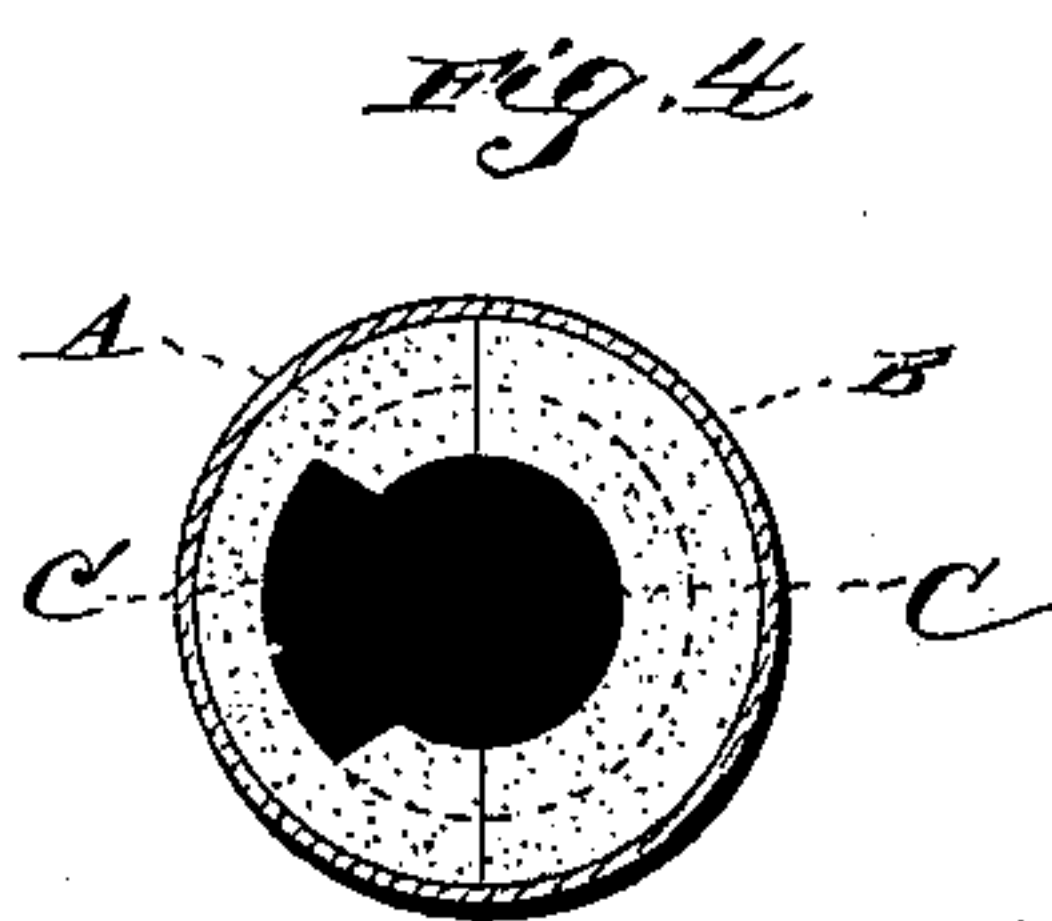
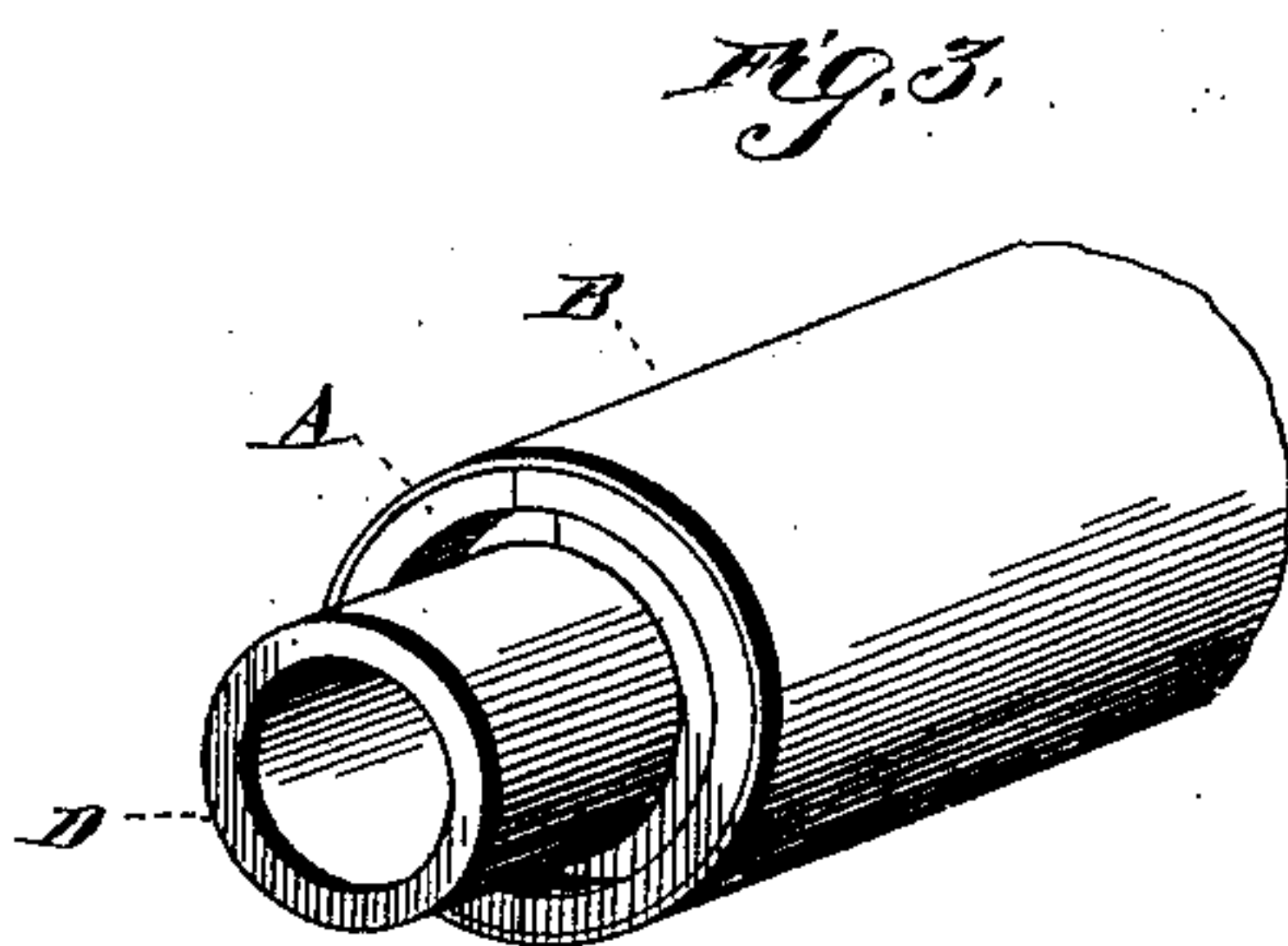
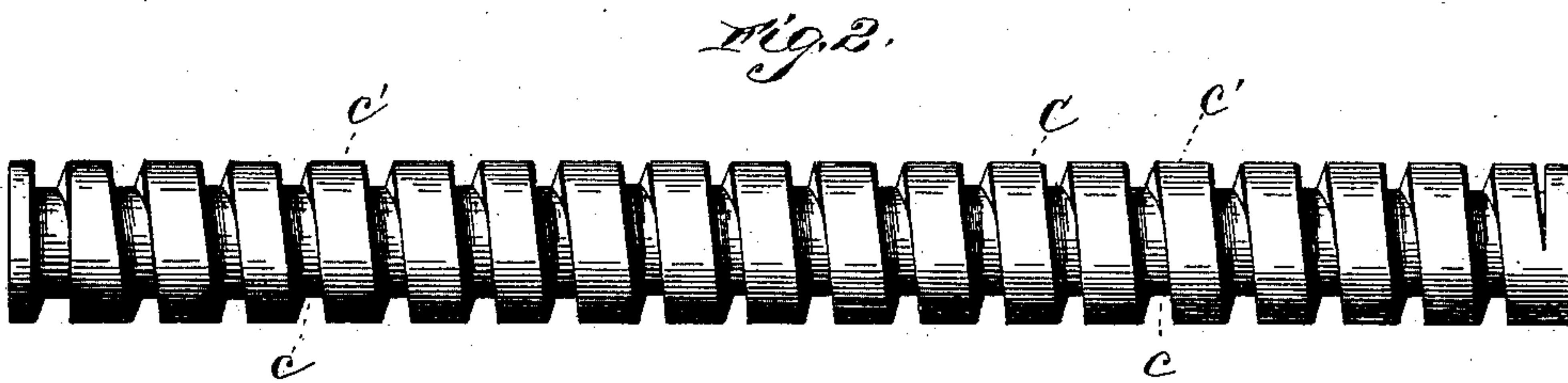
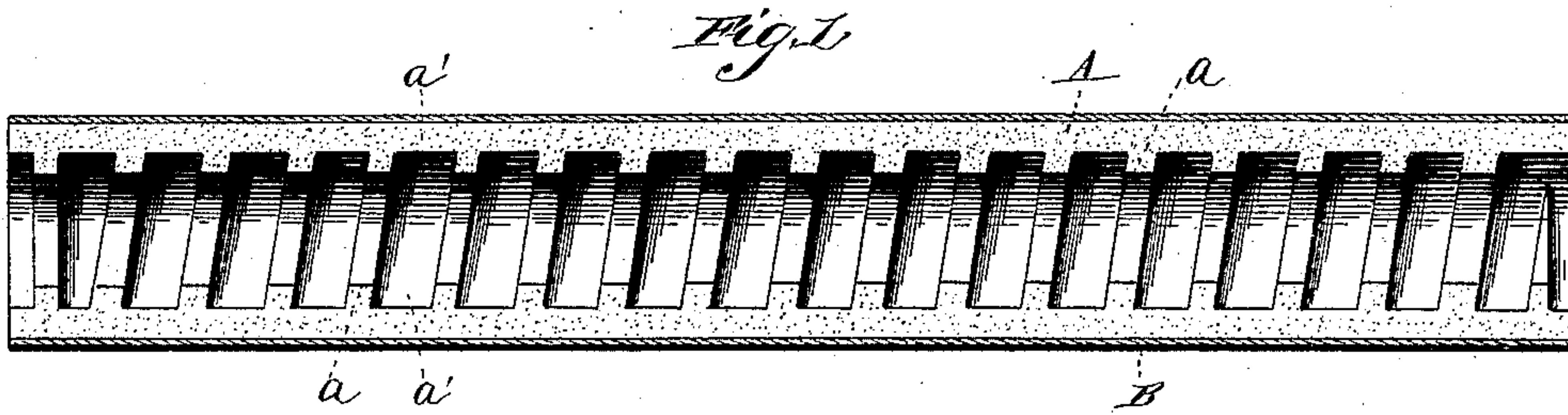


(No Model.)

L. A. PALMER & J. BAIER.
STEAM PIPE COVERING.

No. 437,041.

Patented Sept. 23, 1890.



Witnesses:
Chas. L. Taylor
R. A. Balderson

Inventors:
L. A. Palmer
John Baier
By their Attorneys,
Wigdon & Wigdon

UNITED STATES PATENT OFFICE.

LANSING A. PALMAR AND JOHN BAIER, OF KANSAS CITY, MISSOURI.

STEAM-PIPE COVERING.

SPECIFICATION forming part of Letters Patent No. 437,041, dated September 23, 1890.

Application filed December 7, 1889. Serial No. 332,966. (No model.)

To all whom it may concern:

Be it known that we, LANSING A. PALMAR and JOHN BAIER, of Kansas City, Jackson county, Missouri, have invented certain new and useful Improvements in Steam-Pipe Coverings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

Our invention relates to improvements in steam-pipe covering, and consists in the novel construction hereinafter set forth and described.

In the drawings, which illustrate the manner of carrying out our invention, Figure 1 is a transverse section of the asbestos-cement covering. Fig. 2 is a side view of the mold around which the cement covering is cast. Fig. 3 is a broken-off perspective view of our improved pipe-covering, showing the asbestos-cement covering in position on steam-pipe, and Fig. 4 is a cross-section of said covering.

Referring to the drawings by letter, A represents a covering for steam-pipes, composed of asbestos, asbestos cement, or any plaster or pulp materials, this being cast around mold C in such a manner as to have channels or grooves a' , which constitute a spiral chamber through which the air circulates, thus making a continuous passage for the air around the pipe.

a are the shoulders which rest on the pipe D. These may be made much smaller than the channels or grooves a' , thus making the space covered by the surface of cement covering much smaller than the air-space.

B is an outer covering for the cement pipe-protector, made of canvas or other suitable ma-

terial. This canvas covering, being wrapped or otherwise secured around cement covering C, will be treated to a coat of white lead or other non-porous material.

c is the groove in the mold C which forms the shoulder a in the cement covering, and c' is the shoulder in said mold C which forms the channel a' in said covering A.

The asbestos covering A is made in two pieces, and can therefore easily be placed to all kinds of pipes, as D, and then wrapped with canvas or other suitable material B.

Having thus fully described our invention, what we claim as being new, and desire to secure by Letters Patent, is—

1. A steam-pipe covering composed of the inner covering A, having the inwardly-projecting spirally-arranged shoulders a , forming the spiral air-chamber a' , and the outer covering B, all arranged substantially as shown and described.

2. A steam-pipe covering consisting of the inner covering A, formed in two sections, each section being constructed with the shoulders a and grooves a' , so formed that when the sections are arranged upon the pipe the shoulders and grooves will register and form a spiral air-chamber surrounding said pipe, and the outer covering adapted to secure the inner section upon the pipe, substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

LANSING A. PALMAR.
JOHN BAIER.

Witnesses:

J. E. HIGDON,
R. A. BALDERSON.