

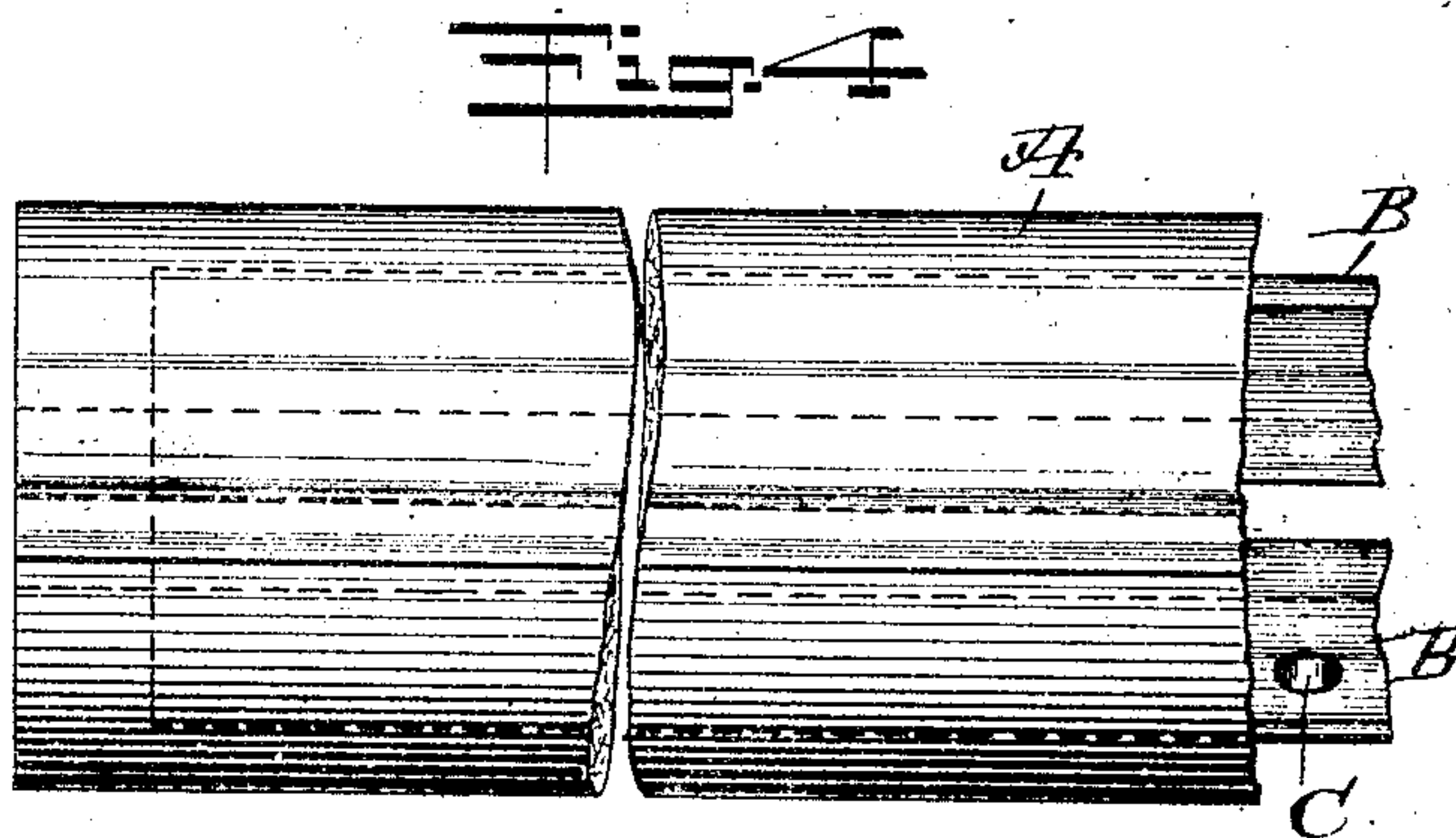
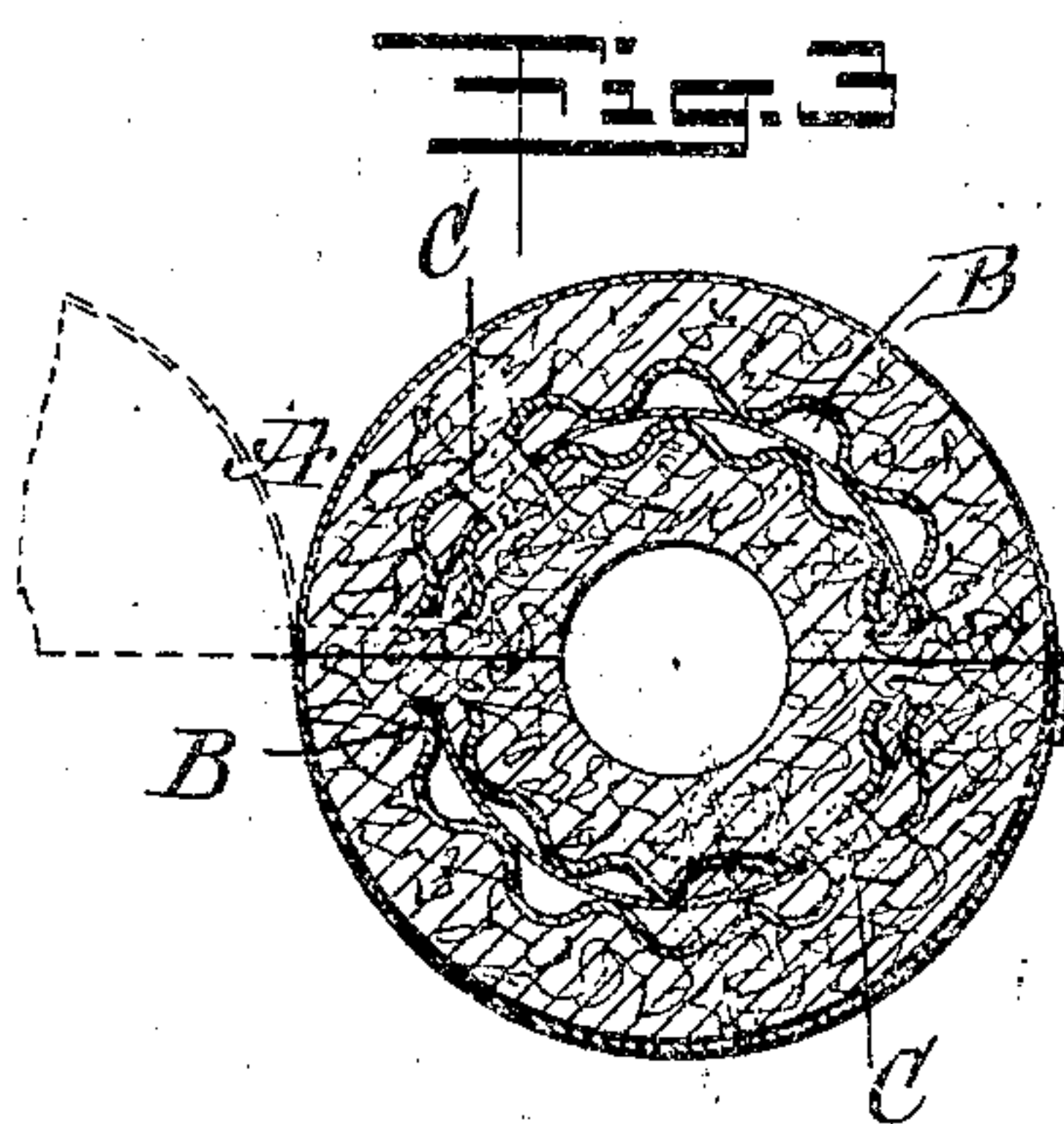
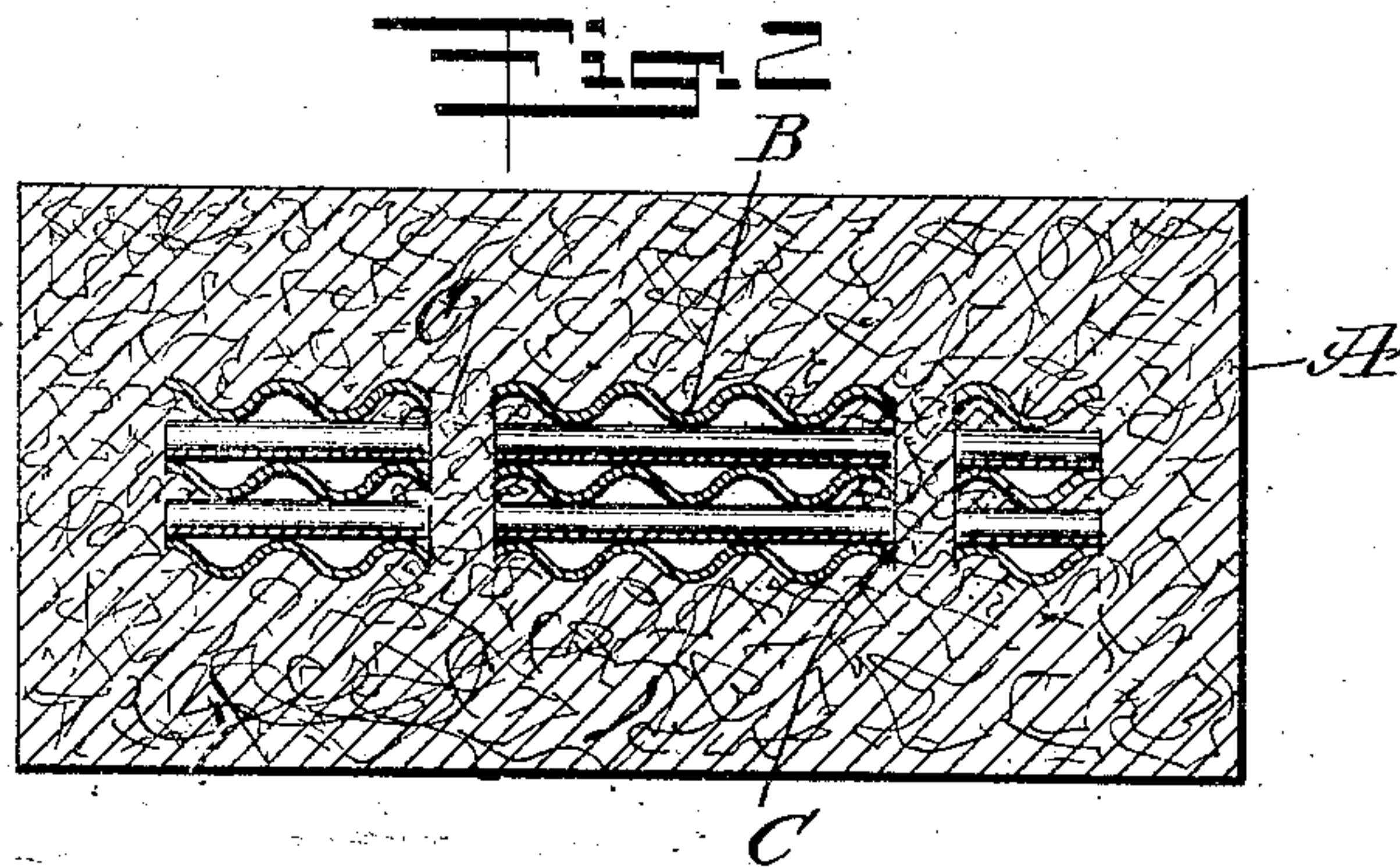
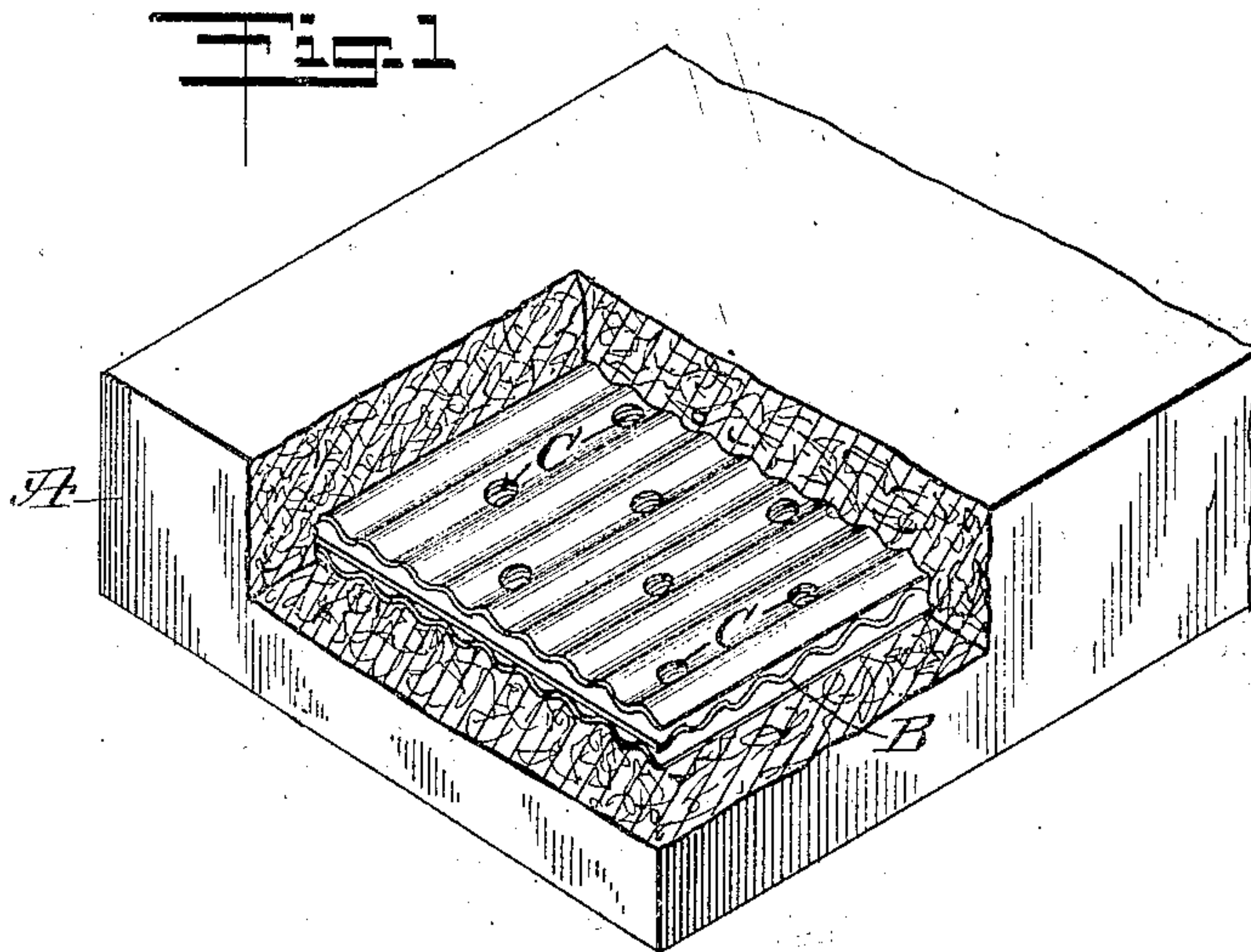
No. 880,363.

PATENTED FEB. 25, 1908.

J. P. & J. F. J. COSTIGAN.

COVERING.

APPLICATION FILED AUG. 1, 1907.



WITNESSES

F. D. Sweet

Reed. Foster

INVENTORS

Joseph P. Costigan

John F. J. Costigan

BY

Mumir Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH P. COSTIGAN AND JOHN F. J. COSTIGAN, OF NEW YORK, N. Y.

COVERING.

No. 880,363.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed August 1, 1907. Serial No. 386,661.

To all whom it may concern:

Be it known that we, JOSEPH P. COSTIGAN and JOHN F. J. COSTIGAN, citizens of the United States, and residents of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Covering, of which the following is a full, clear, and exact description.

10 The invention relates to coverings for boilers, cylinders, pipes, etc.; and its object is to provide a new and improved covering, which is simple and durable in construction, easily applied, and arranged to form an
15 efficient non-conductor of heat or cold.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

20 A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

25 Figure 1 is a perspective view of the improvement in the form of a block, parts being broken out; Fig. 2 is a cross section of the same; Fig. 3 is a cross section of the improvement in the form of a cylinder, and Fig. 4 is a
30 side elevation of the same.

The covering consists essentially of a body A and a core or matrix B embedded in the body A and forming air spaces therein. The body A is made of a plastic non-conducting
35 material, such as asbestos, magnesia and like material, capable of being molded while in a plastic state into any desired shape in a corresponding mold. The core B is preferably made of a plurality of united corrugated
40 sheets of a stiff non-conducting material, such as prepared sheet asbestos, the sheets being arranged one relative to the other to provide air spaces between them.

In manufacturing the covering, the core B
45 is inserted in the mold, and the plastic material for forming the body A is poured into the mold to embed the core, the edges of which are sealed by the plastic body material. As the core B is of a comparatively stiff ma-
50 terial and is provided with air spaces, it is evident that by embedding the core B in the material of the body A, the latter is reinforced and air spaces are provided within the body, thus increasing the efficiency of the
55 covering to a high degree, the covering hav-

ing practically the effect of a double covering with intervening air spaces.

The core or matrix B is preferably provided with transverse apertures C filled by the plastic body material poured into the mold, so that the body material on opposite
60 faces of the core becomes united and the core is throughout securely locked in place in the body A. As illustrated in Figs. 1 and 2, the flat core or matrix B is wholly em-
65 bedded in the body A molded into the shape of a block or a bar, and as illustrated in Figs. 3 and 4, the body A is in the form of a sectional cylinder and the sectional core B is bent into cylindrical shape and each core
70 section is embedded in the corresponding section of the body A.

By the arrangement described, the side edges as well as the ends of the core sections are sealed by the plastic material of the
75 body A.

The covering may be made in any desired length and cut to suit circumstances, the cut end of the core B being sealed by the use of plastic asbestos, magnesia, cement or
80 other suitable material.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. As a new article of manufacture, a
85 covering for boilers, pipes and the like, consisting of a body and an air space core for the same, the said body being made of a plastic non-conducting material capable of being molded while in a plastic state into a desired
90 shape and the said core being formed of a plurality of united corrugated sheets of a stiff non-conducting material, the sheets being arranged one relative to the other to provide air spaces between them, the said
95 core being wholly embedded in the said body and the side edges and ends of the core sections being sealed by the plastic material of the said body.

2. As a new article of manufacture, a
100 covering for boilers, pipes and the like, consisting of a body and an air space core for the same, the said body being made of a plastic non-conducting material, capable of being molded while in a plastic state into a desired
105 shape and the said core being formed of a plurality of united corrugated sheets of a stiff non-conducting material, the sheets being arranged one relative to the other to provide air spaces between them, the said
110

core being wholly embedded in the said body, and the side edges and ends of the core sections being sealed by the plastic material of the said body, the said core being provided with transverse apertures filled by the plastic body material to integrally unite the body material on opposite faces of the said core.

3. A covering for boilers, pipes and the like, comprising a body of plastic asbestos capable of being molded into a desired shape within a corresponding mold, and a core of superimposed corrugated sheets of asbestos, arranged one transverse to the other and

inserted in the mold to be embedded by the said body material during the process of molding, the said core being closed at its marginal edges by the said body asbestos, and forming sealed air spaces within the said body.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOSEPH P. COSTIGAN.
JOHN F. J. COSTIGAN.

Witnesses:

THEO. G. HOSTER,
JOHN P. DAVIS.