

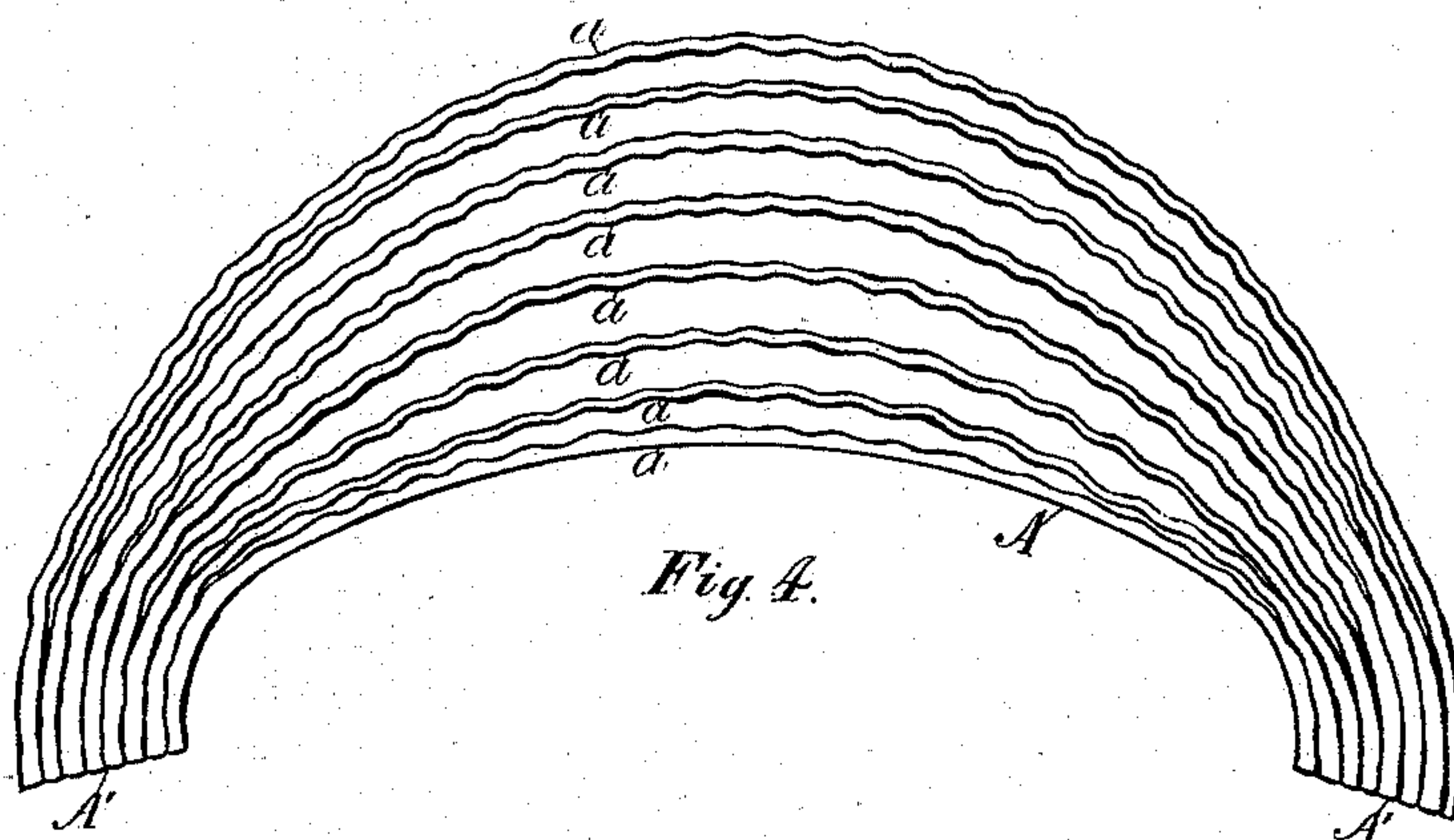
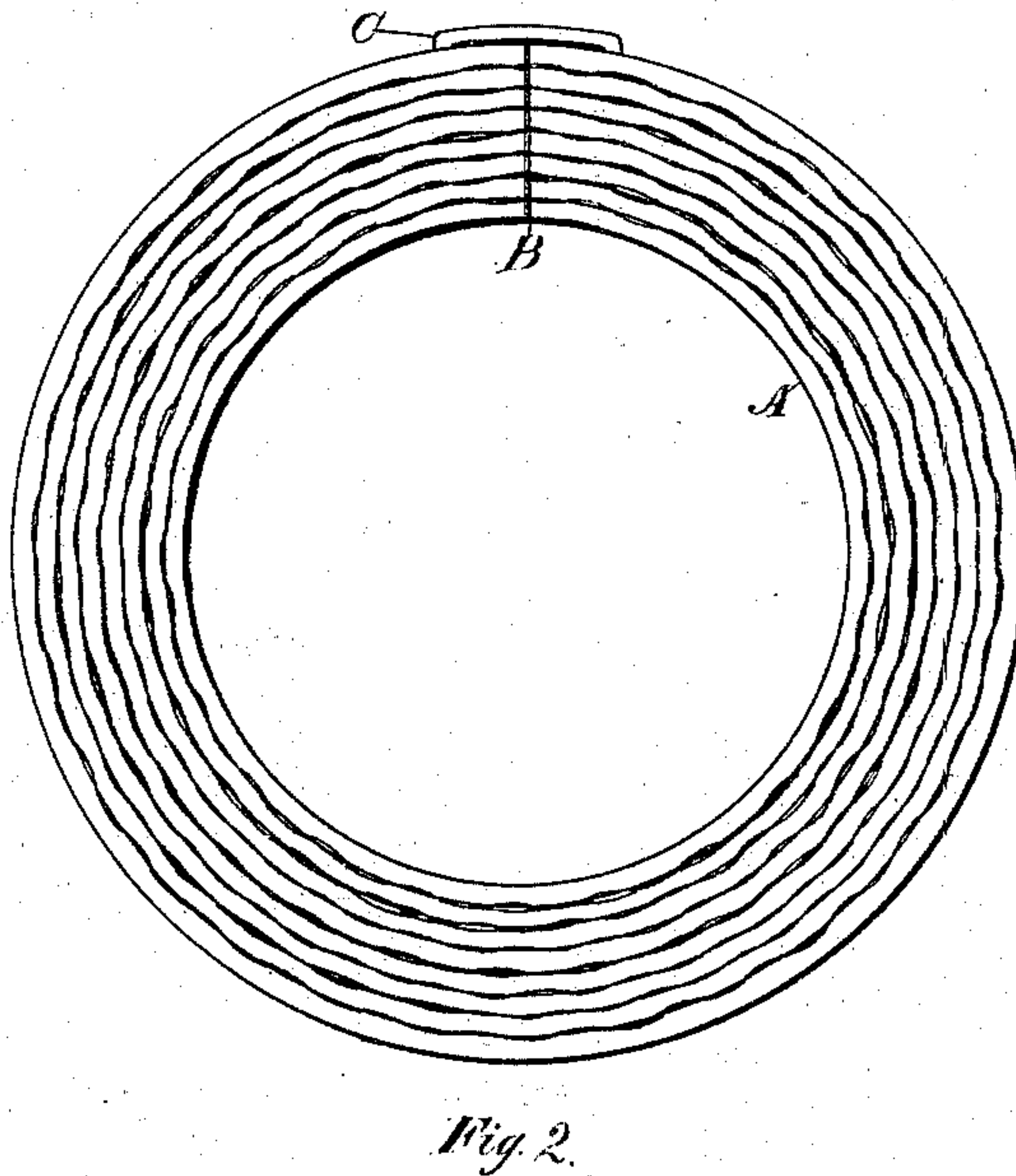
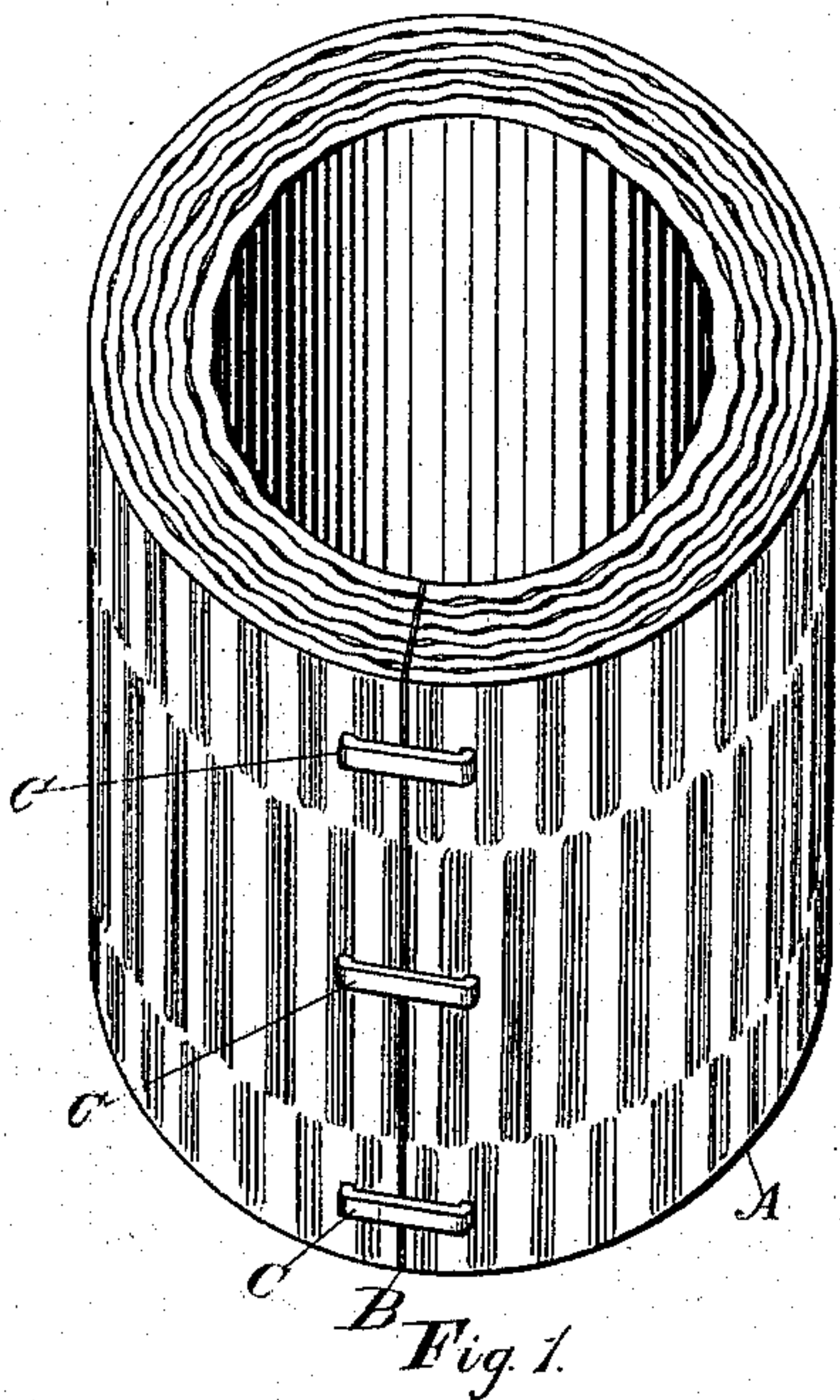
(Model.)

J. D. PIERCE.

COVERING FOR STEAM PIPES, &c.

No. 252,400.

Patented Jan. 17, 1882.



Witnesses.

W. H. Brahma
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UNITED STATES PATENT OFFICE.

JAMES D. PIERCE, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF ONE-HALF
TO HENRY CLAY BRADLEY.

COVERING FOR STEAM-PIPES, &c.

SPECIFICATION forming part of Letters Patent No. 252,400, dated January 17, 1882.

Application filed June 24, 1881. (Model.)

To all whom it may concern:

Be it known that I, JAMES D. PIERCE, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain
5 new and useful Improvements in Coverings for Steam-Pipes, Boilers, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to covering for pipes,
10 boilers, &c., and will be fully described hereinafter.

In the drawings, Figure 1 is a perspective view of a section of pipe-covering embodying my invention. Fig. 2 is an end view of the
15 same. Fig. 3 is an edge view of a section of covering for flat surfaces; and Fig. 4 is an end view of a section of pipe-covering, the edges of which are spread apart.

My improved covering is composed of two
20 or more layers of paper, *a*, which may be varied in number according to the thickness desired, and these layers may be either corrugated, indented, or plain. I make the pipe-covering by wrapping the paper about a mandrel and cementing or otherwise securing each
25 layer to that immediately below it, as shown at A' A' A' A', Figs. 3 and 4, at intervals. The structure may now be cut open by a knife or saw through the center of the cemented line
30 and the structure slipped off the mandrel, and as the edges of the layers of which it is composed are securely fastened together, it may be packed and transported without injury.

If my covering is designed for a flat surface,
35 I merely secure flat layers of paper to each other in lines A', and through these make the cuts which divide the covering into blocks or sheets.

As the layers which compose my improved
40 covering are only secured together in lines

through which the dividing-cuts are to be made, there will be left between the layers at other points—those between the secured portions—a great deal of space for non-circulating or dead
45 air, and this gives to my covering the maximum power to resist the passage of heat through it.

I am aware that paper covering has been made for pipes, &c.; but the layers of which this covering was composed were cemented to
50 each other throughout the entire structure, and the covering was therefore so dense that its non-conducting properties were very greatly lessened.

My covering, except at the points A', is as
55 full of air-spaces almost as hair or sponge, and may be manufactured entirely at the shop, to be cut to the proper size either in the shops or wherever the covering is to be applied.

What I claim as my invention, and desire to
60 secure by Letters Patent, is—

1. A covering for pipes, boilers, &c., consisting of layers of paper so secured together at intervals as to form air-spaces, substantially
65 as set forth.

2. The method of preparing paper coverings herein described—that is, placing layers of paper one upon the other and securing them together at intervals, as by pasting, so as to form intermediate air-spaces, and cutting
70 through the pasted portions to divide the covering into blocks or sheets of the size required.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of June, 1881.

JAMES D. PIERCE.

Witnesses:

STANLEY S. STOUT,
HAROLD G. UNDERWOOD.