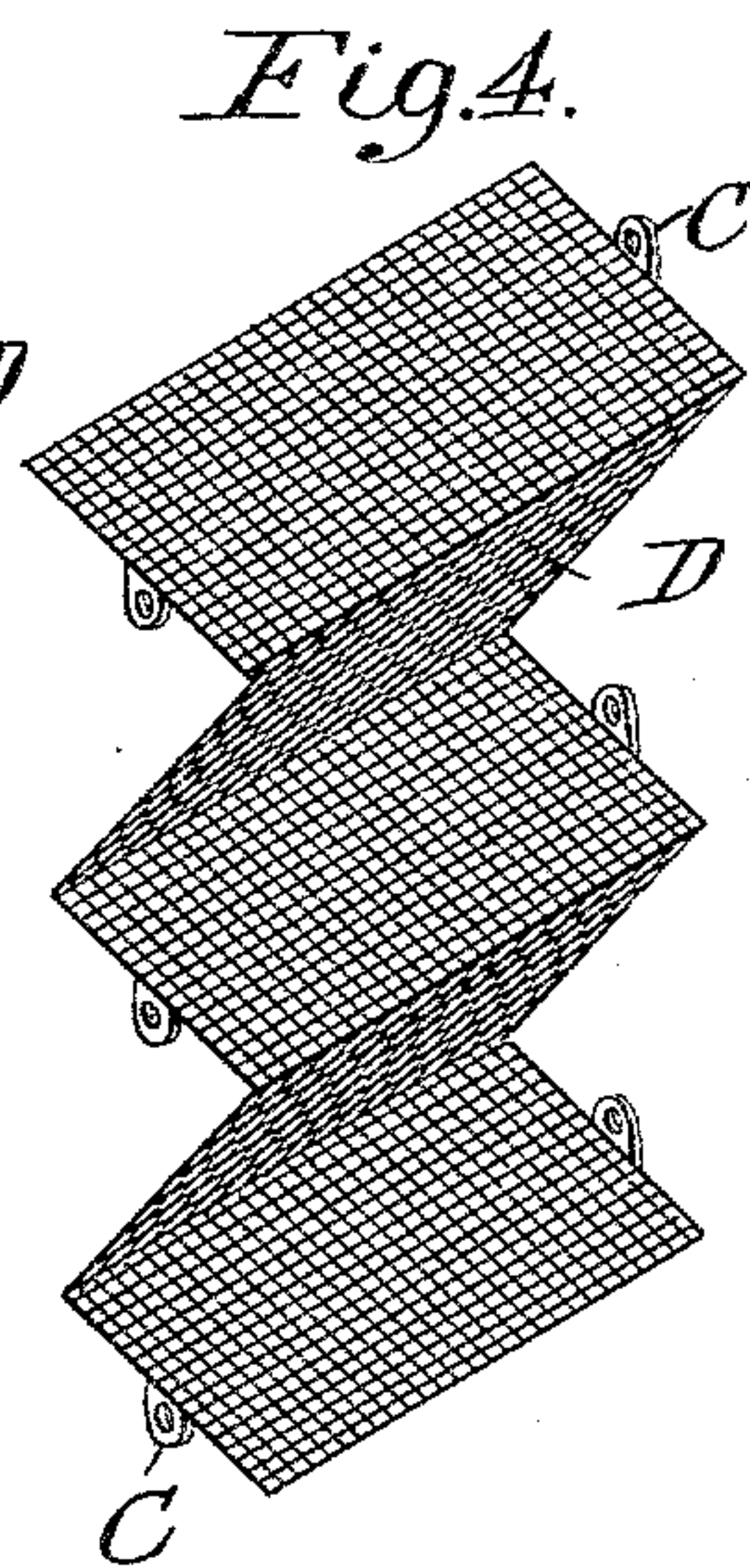
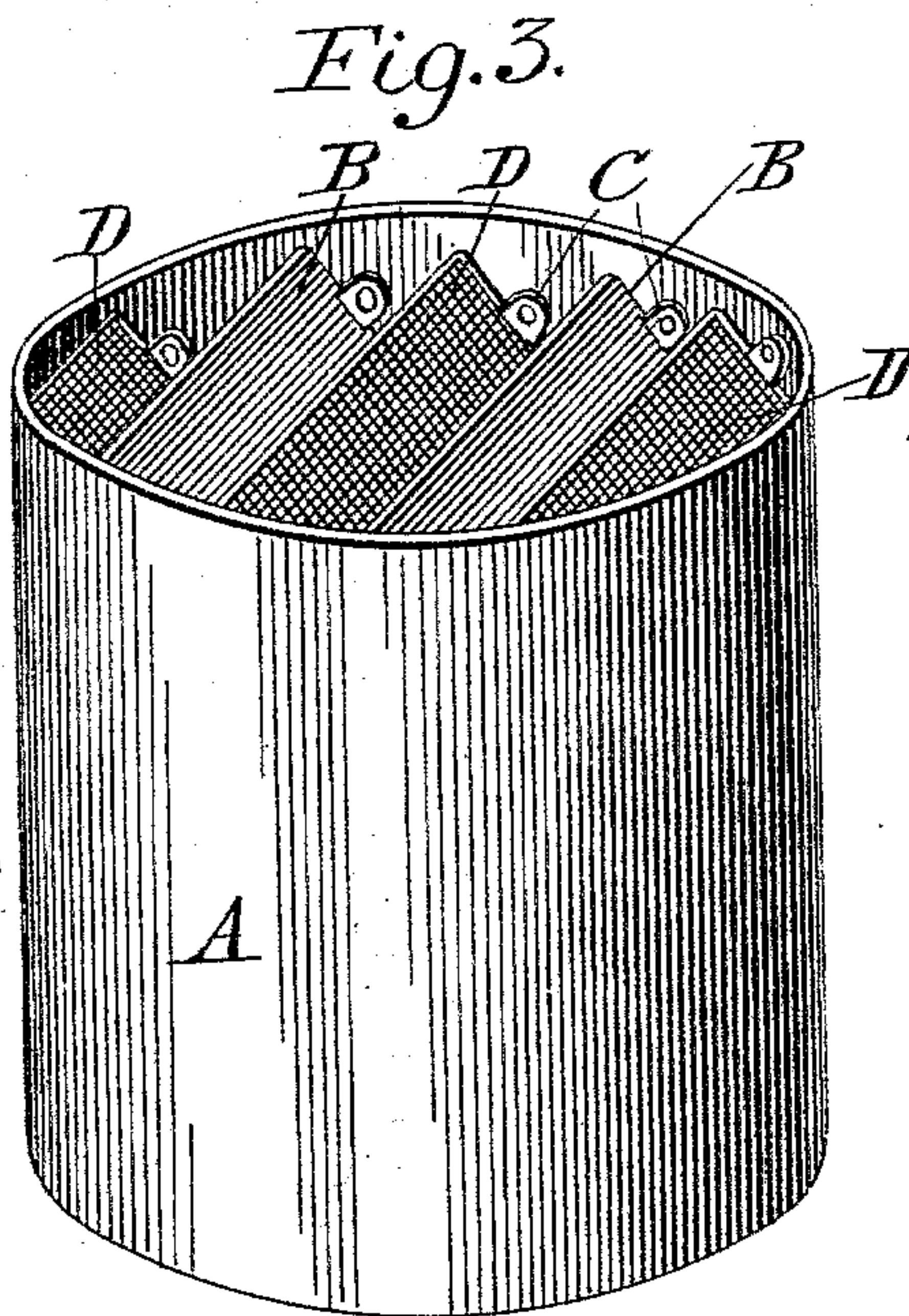
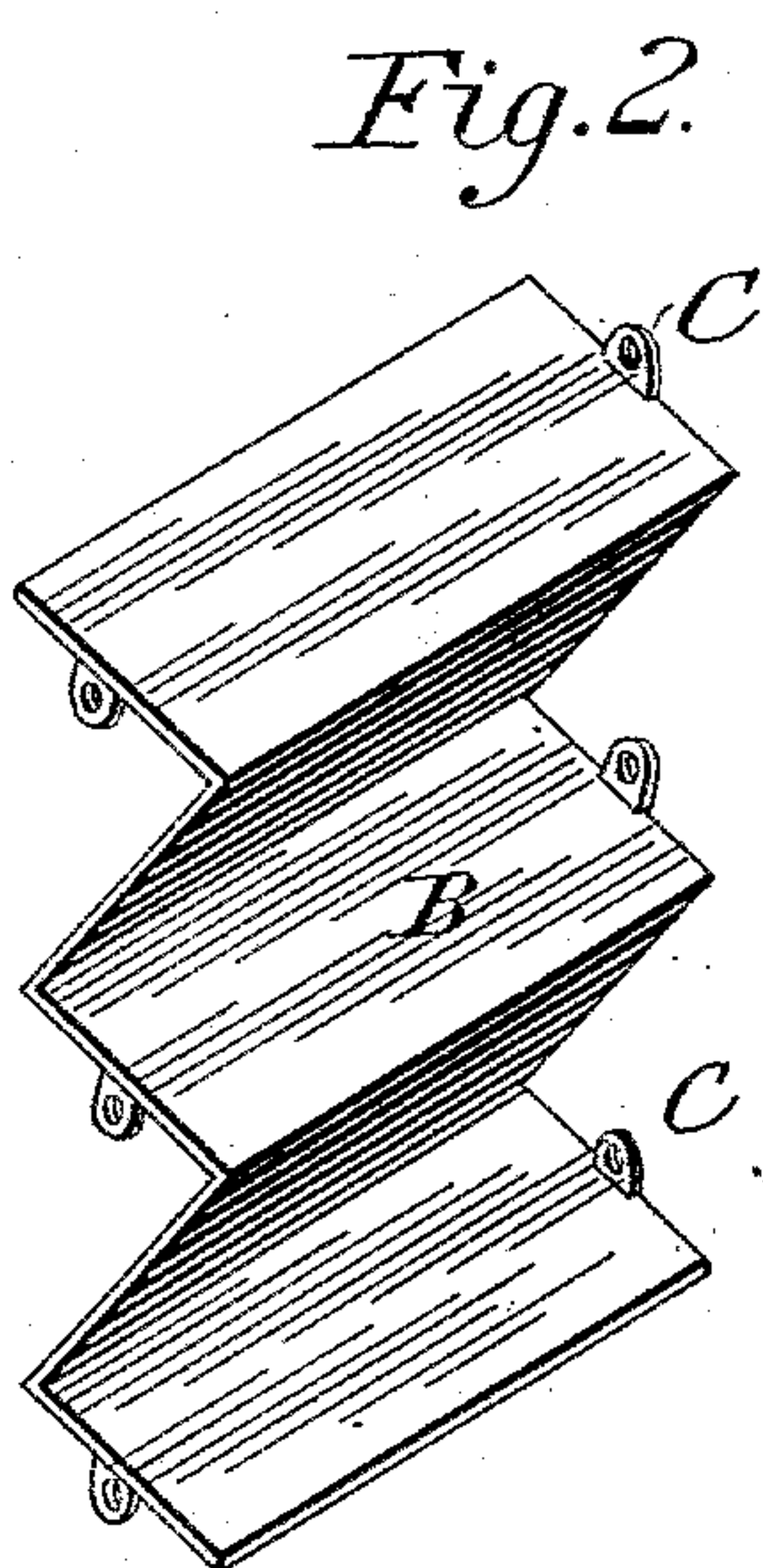
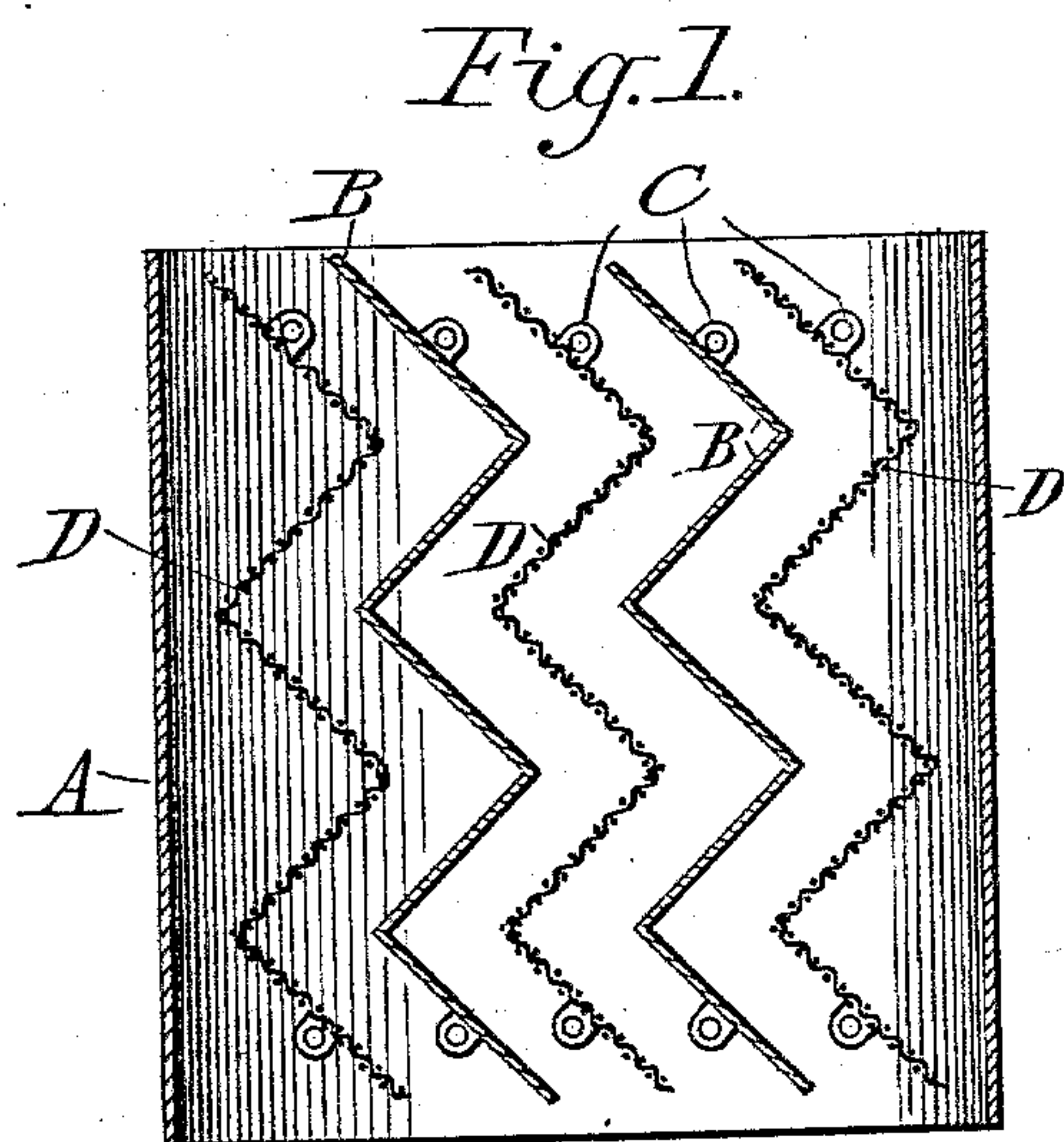


(No Model.)

J. T. BRIGHT.  
SPARK ARRESTER.

No. 561,695.

Patented June 9, 1896.



Witnesses:  
*John H. Allen*  
*M. O. Offutt*

Inventor:  
*Joseph T. Bright*



# UNITED STATES PATENT OFFICE.

JOSEPH T. BRIGHT, OF MIDWAY, KENTUCKY.

## SPARK-ARRESTER.

SPECIFICATION forming part of Letters Patent No. 561,695, dated June 9, 1896.

Application filed December 3, 1895. Serial No. 570,962. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH T. BRIGHT, of Midway, in the county of Woodford and State of Kentucky, have invented a new and useful  
5 Improvement in Railroad-Engine Spark-Arresters, of which the following is a description.

My invention is an improvement in railroad spark-arresters; and it consists in certain novel constructions, combinations, and arrangements of parts, as will be first fully described, and then pointed out in the claims.

In the drawings, Figure 1 is a sectional view of my spark-arrester. A A are the sides of the cylinder, in which the corrugated plates  
15 B B and corrugated screens D D D are made fast by ears C.

Fig. 2 is a representation of one of the corrugated plates B B, as seen in Fig. 1.

Fig. 3 is a representation of the cylinder  
20 A A, which fits inside of smoke-stack and in which the corrugated screens D D D and corrugated plates B B are placed in position, as shown in Fig. 1.

Fig. 4 is a representation of the corrugated  
25 screening, which is placed alternately in the cylinder A A with the corrugated plates B B, as shown in Fig. 1, the combination of which constitutes my spark-arrester.

The cylinder A A may be made of heavy

sheet-iron and is constructed to slip inside of  
30 a smoke-stack of a steam-engine.

The corrugated plates B B, Fig. 1, are made of heavy sheet-iron and are attached to the inner side of cylinder A A by ears c c c c, Fig.  
2, with rivets or bolts. 35

The corrugated screening, Fig. 4, is placed alternately with corrugated plates B B inside of cylinder A A.

Having thus described my invention, what I claim as new is— 40

1. In a cylinder having attached to its inner side a sufficient number of corrugated plates and screens placed alternately in the cylinder, so that the corrugations will run across the cylinder from side to side, and so  
45 arranged as to knuckle into each other, with sufficient space between them for smoke to pass through substantially as set forth.

2. The combination of the cylinder and pieces of corrugated plate and screening, attached to the inner side of cylinder, all of which when put together fit inside of the smoke-stack of a steam-engine, substantially as set forth. 50

JOSEPH T. BRIGHT.

Witnesses:

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