(No Model.)

C. E. MEDING.

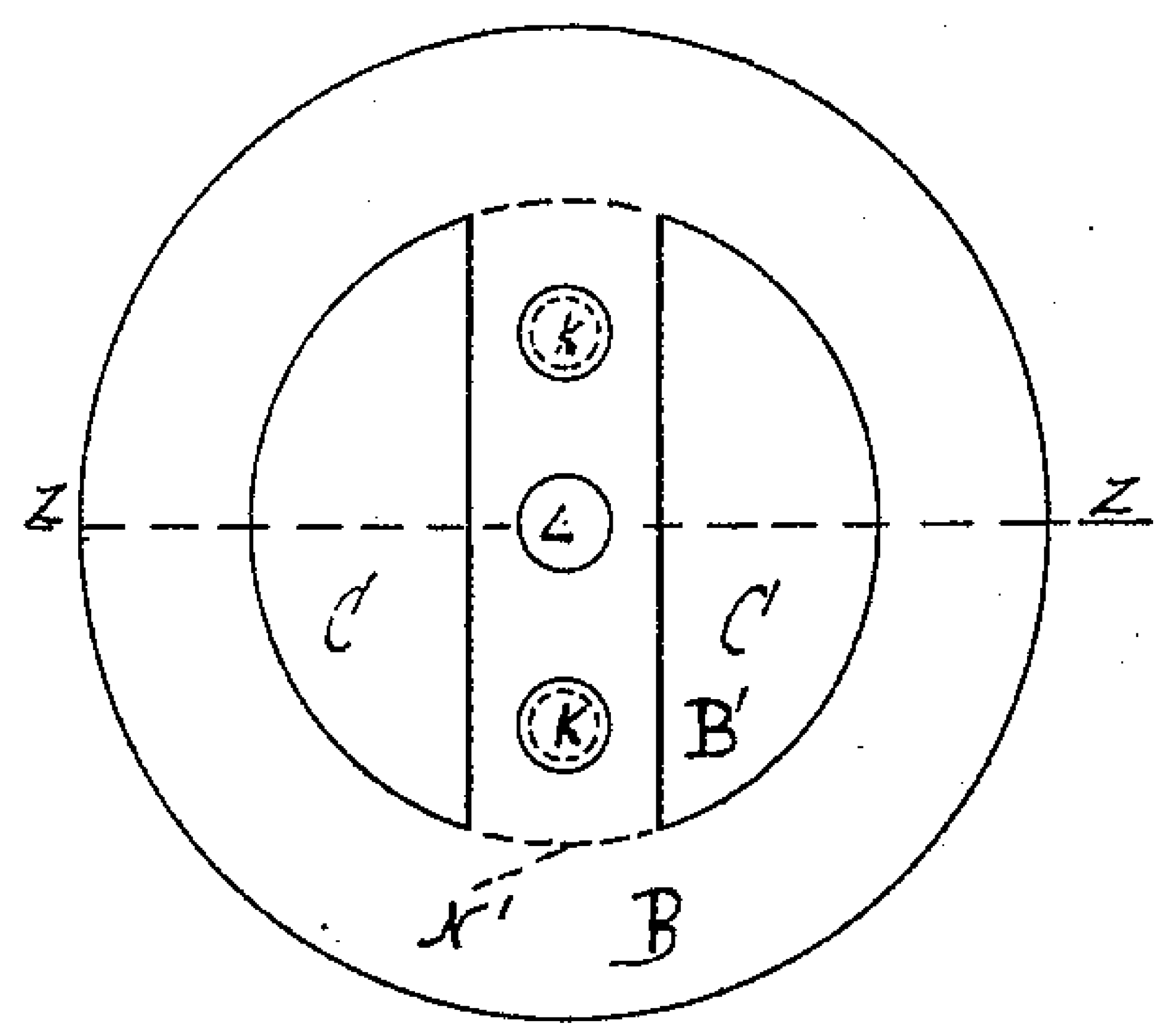
BOBBIN.

No. 405,267. Patented June 18, 1889.

Fig 1

A

Fig 2



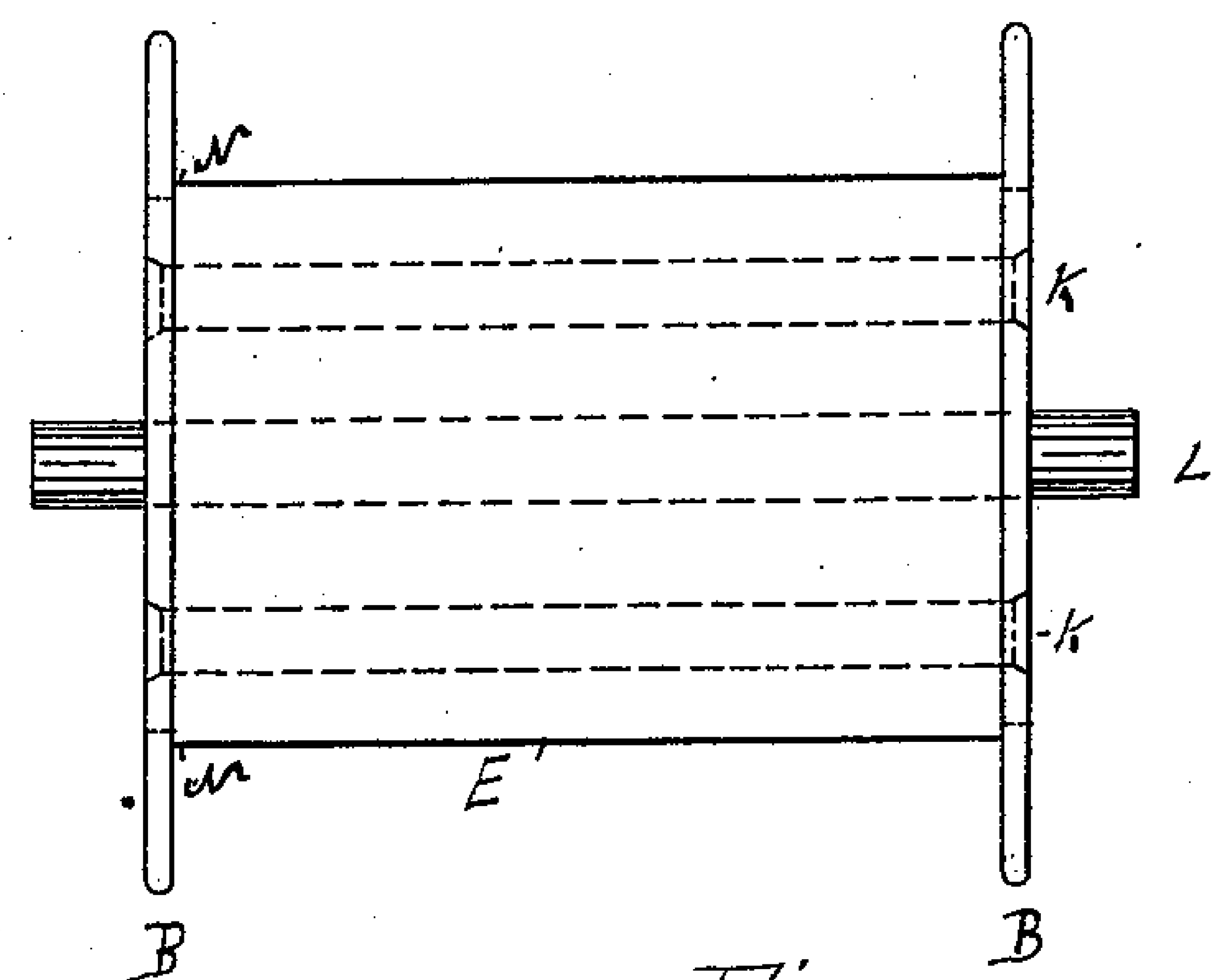


Fig 4

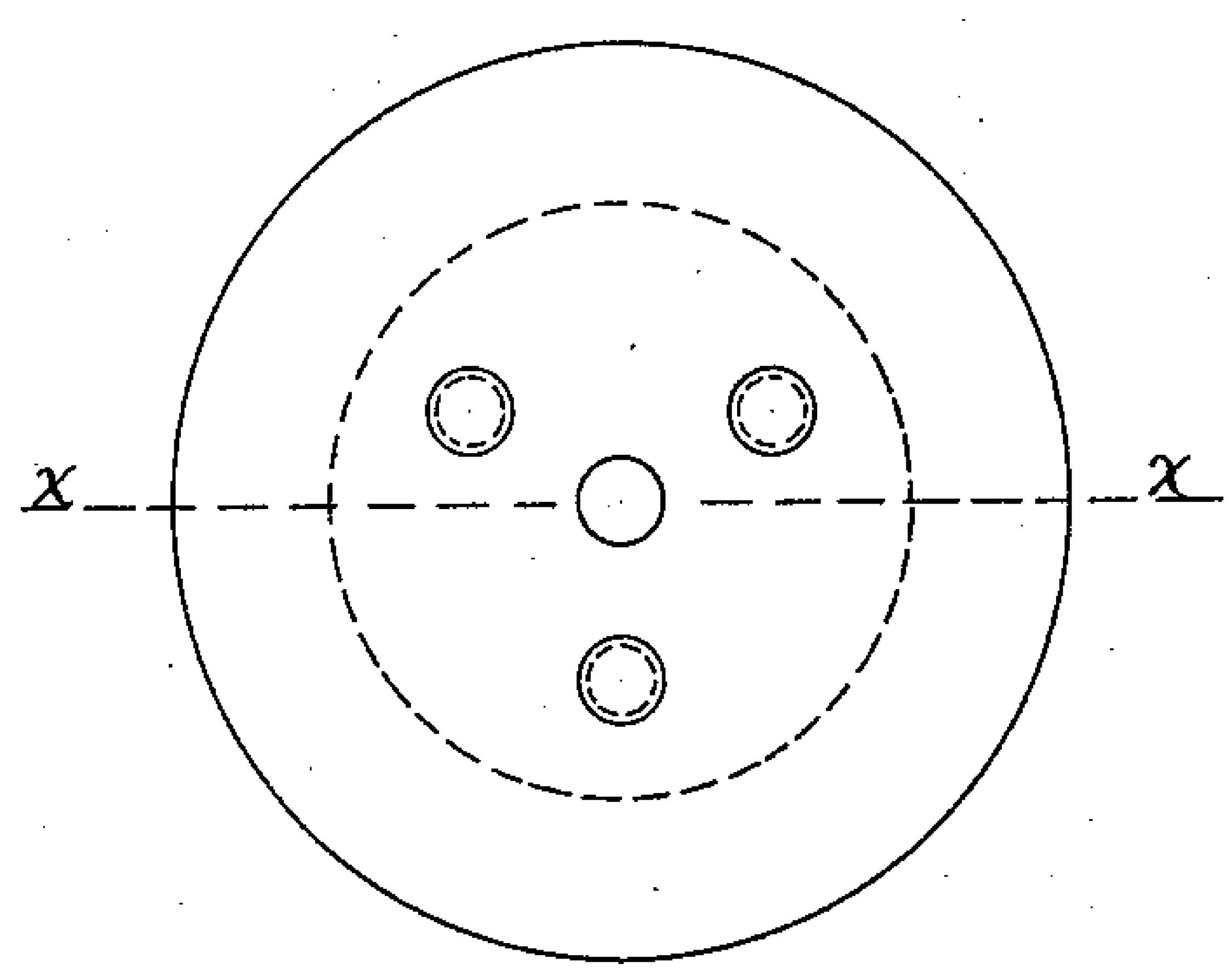


Fig 3

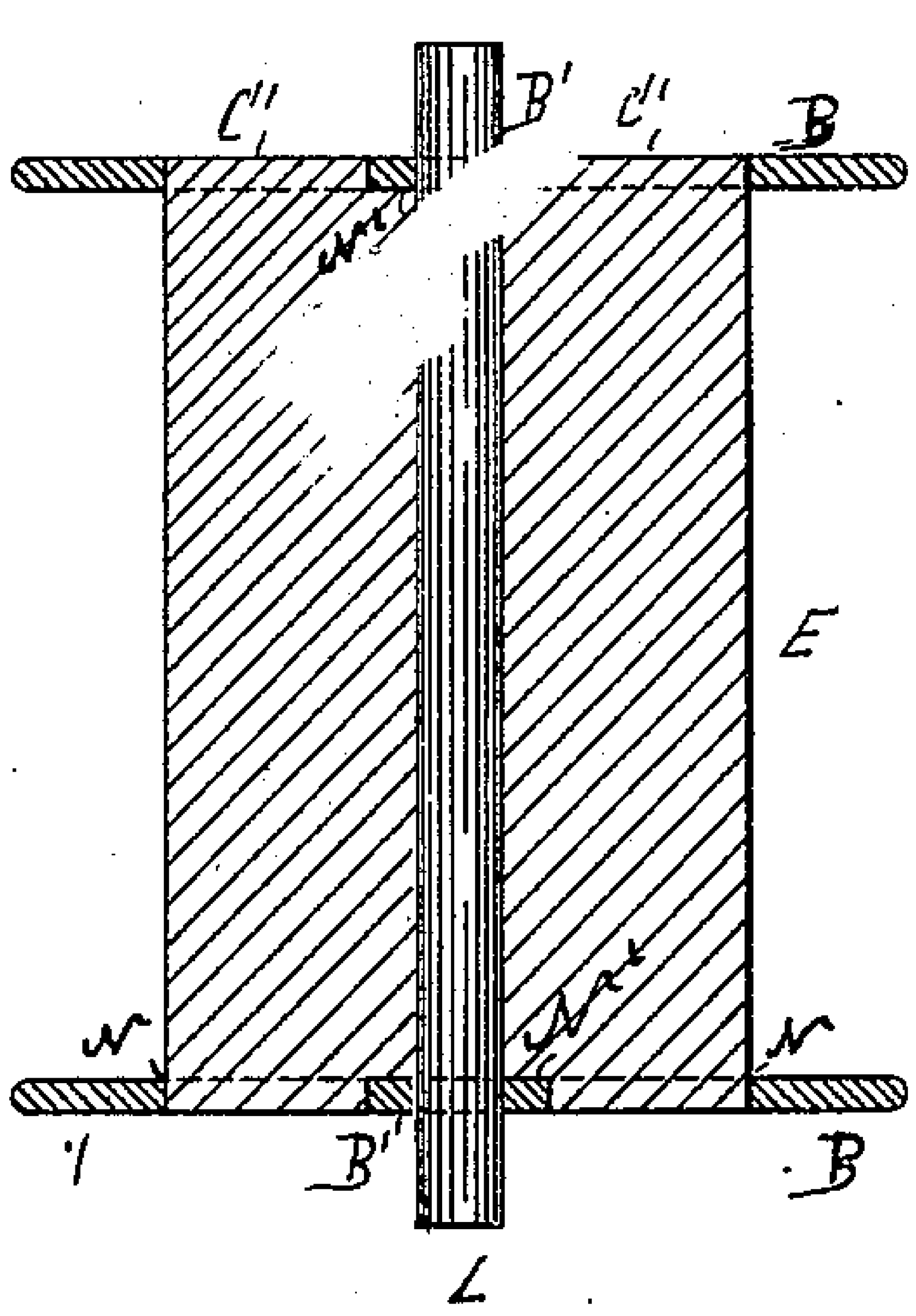
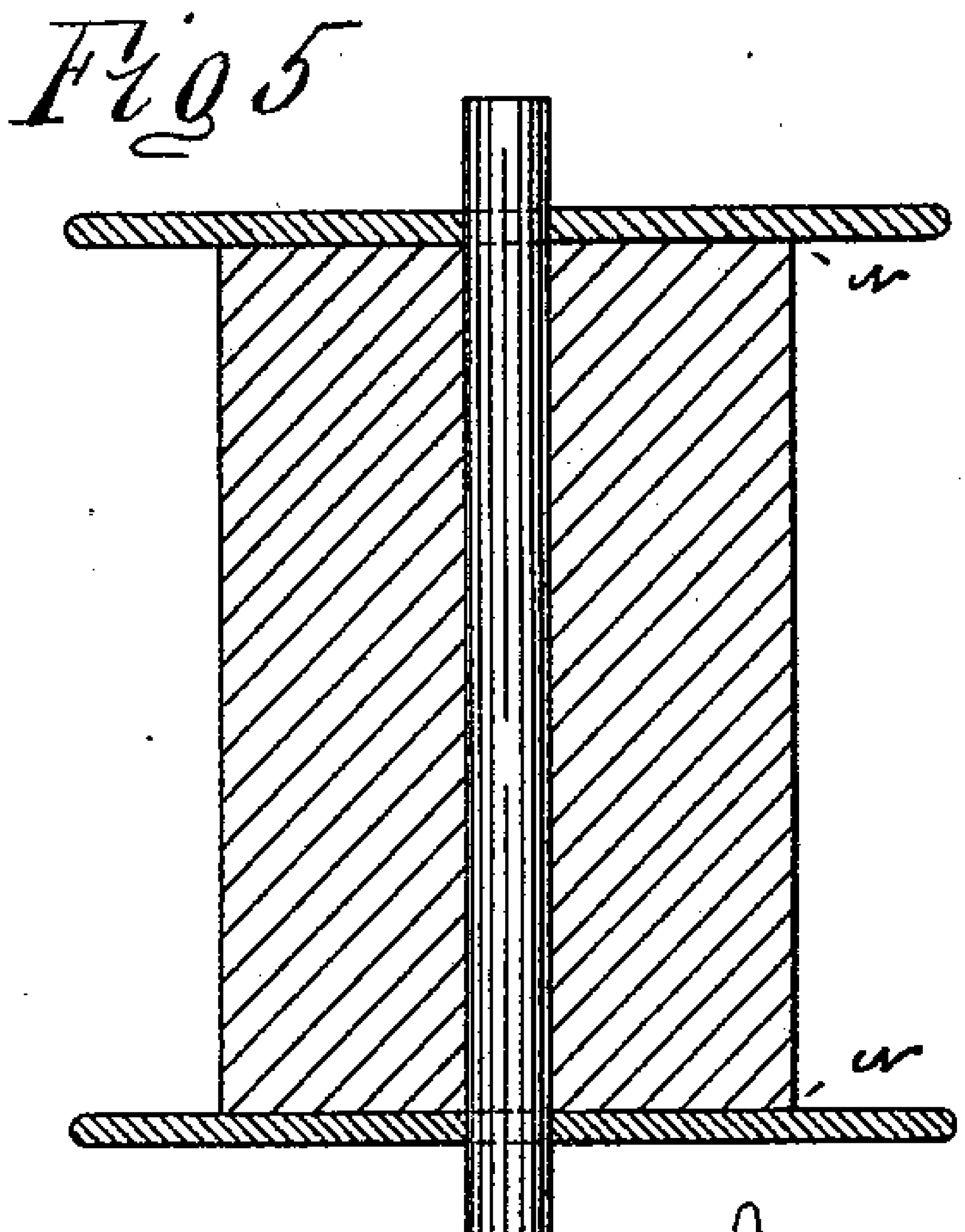


Fig 5



Witnesses

Alfred B. Watson

W. Inglis Varner.

Inventor

Charles E. Meding

John Inglis atty

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES E. MEDING, OF PATERSON, NEW JERSEY.

BOBBIN.

SPECIFICATION forming part of Letters Patent No. 405,267, dated June 18, 1889.

Application filed April 15, 1889. Serial No. 307,266. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. MEDING, a citizen of the United States, residing at Paterson, Passaic county, State of New Jersey, have invented a new and useful Improvement in Bobbins, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to bobbins the heads of which are riveted to the barrel. Usually it has been customary to construct bobbins of the class shown with a solid head and fasten the heads to the barrel of the bobbin against the ends of the same with rivets. Bobbins constructed thus are found to be objectionable, for the reason that the barrel of the bobbin, which is made of wood, recedes from the heads of the same by shrinkage under the action of the atmosphere thereupon, and leaves an opening between the head of the bobbin and the barrel of the same to catch and break the thread or filament wound thereon.

The object of my invention is to provide a bobbin which shall possess the advantages of the former bobbin, but which shall be free from its objectionable features.

The object sought I attain by the construction shown, which will be hereinafter fully described and claimed.

Figure 1 of the drawings is an end view of a bobbin constructed according to my invention. Fig. 2 is a side view of the same. Fig. 3 is a section of the same on line *z z* of Fig. 1. Fig. 4 is an end view of the pre-existing bobbin, and Fig. 5 is a longitudinal section of the same on line *x x* of Fig. 4.

A represents a bobbin of novel construction, the heads B of which bobbin have formed in them segmental openings C, the circumference of which openings corresponds with the circumference of the barrel E of the bobbin, and is therefore adapted to receive it and accommodate projecting portions C′ of like shape of the barrel E of the bobbin, when the thickness of the center portion B′ of the head of the bobbin is let into the end of the barrel, as shown.

The center portion of the bobbin-head, after the same has been let into the end of the barrel B the thickness of the same, is secured to the barrel by rivets K, which latter pass, in common with pin L, entirely through the barrel E and heads B of the bobbin, and which are riveted to the heads of the bobbin, as shown.

By my invention the ends of the barrel portions C′ of the bobbin, which occupy the openings C of the bobbin-heads prepared therefor, are flush with the outer face-surface of the heads B of the bobbin, which construction presents a solid barrel-surface at N around the entire circumference of the barrel, except at N′, which portions are inconsiderable, and into which the thread or filament could hardly enter to receive damage, whereas in the pre-existing bobbin the entire barrel-circumference at N is open to receive, catch, and break the thread or filament, which causes waste of valuable material.

Having described my invention, I claim as new and desire to secure by Letters Patent—

In a bobbin, the combination, with the barrel E, having the projecting portions C′, of the heads B, having the openings C formed therein to receive said projecting portions, and having the central portions B′ let into the ends of the barrel between said portions C, and rivets K, substantially as shown and described.

CHARLES E. MEDING.

Witnesses:
JOHN INGLIS,
FRED INGLIS WARNER.