

No. 773,708.

PATENTED NOV. 1, 1904.

J. J. BOUCHARD.
TROLLEY WHEEL.

APPLICATION FILED AUG. 28, 1903.

NO MODEL.

Fig. 1.

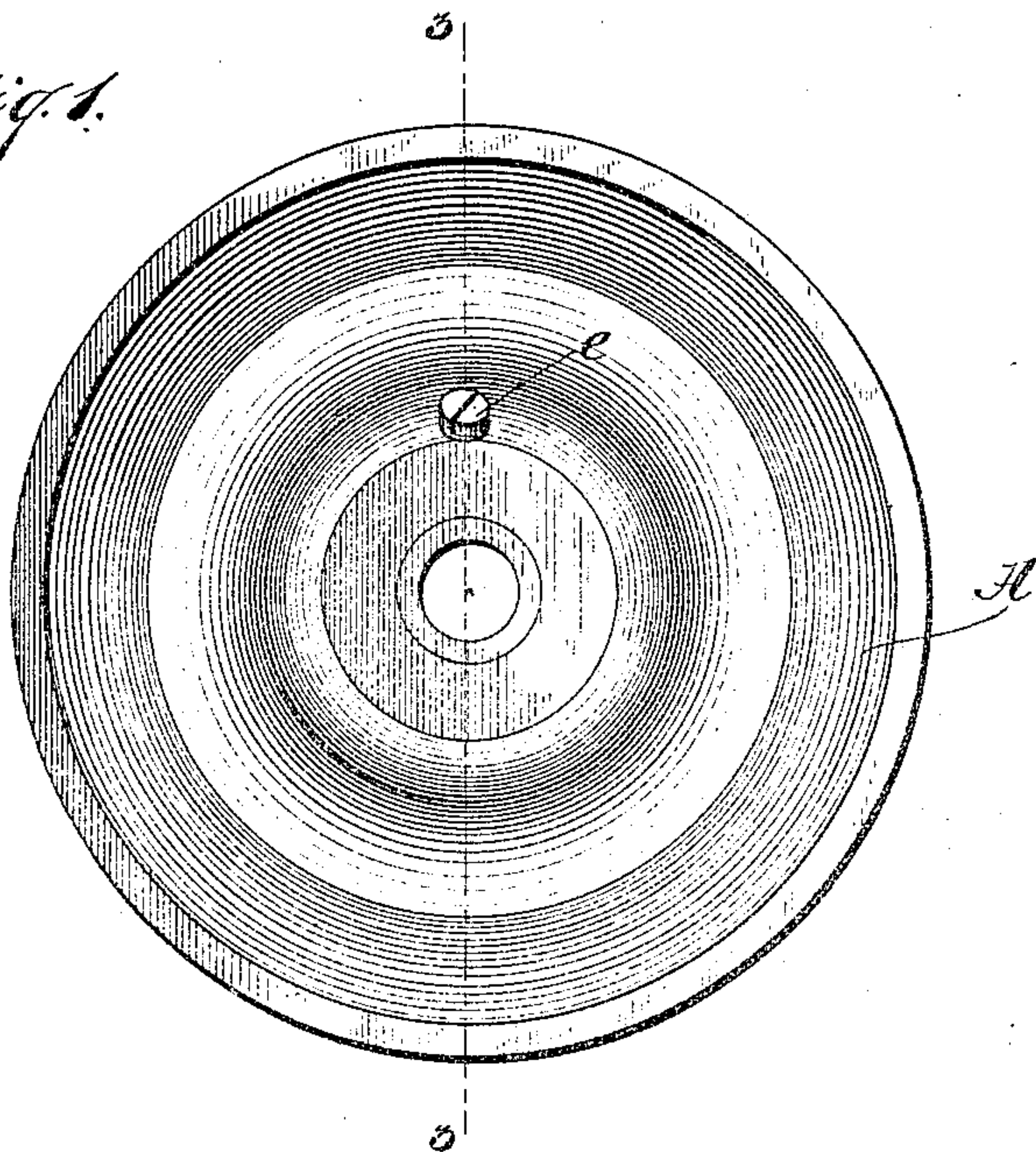


Fig. 2.

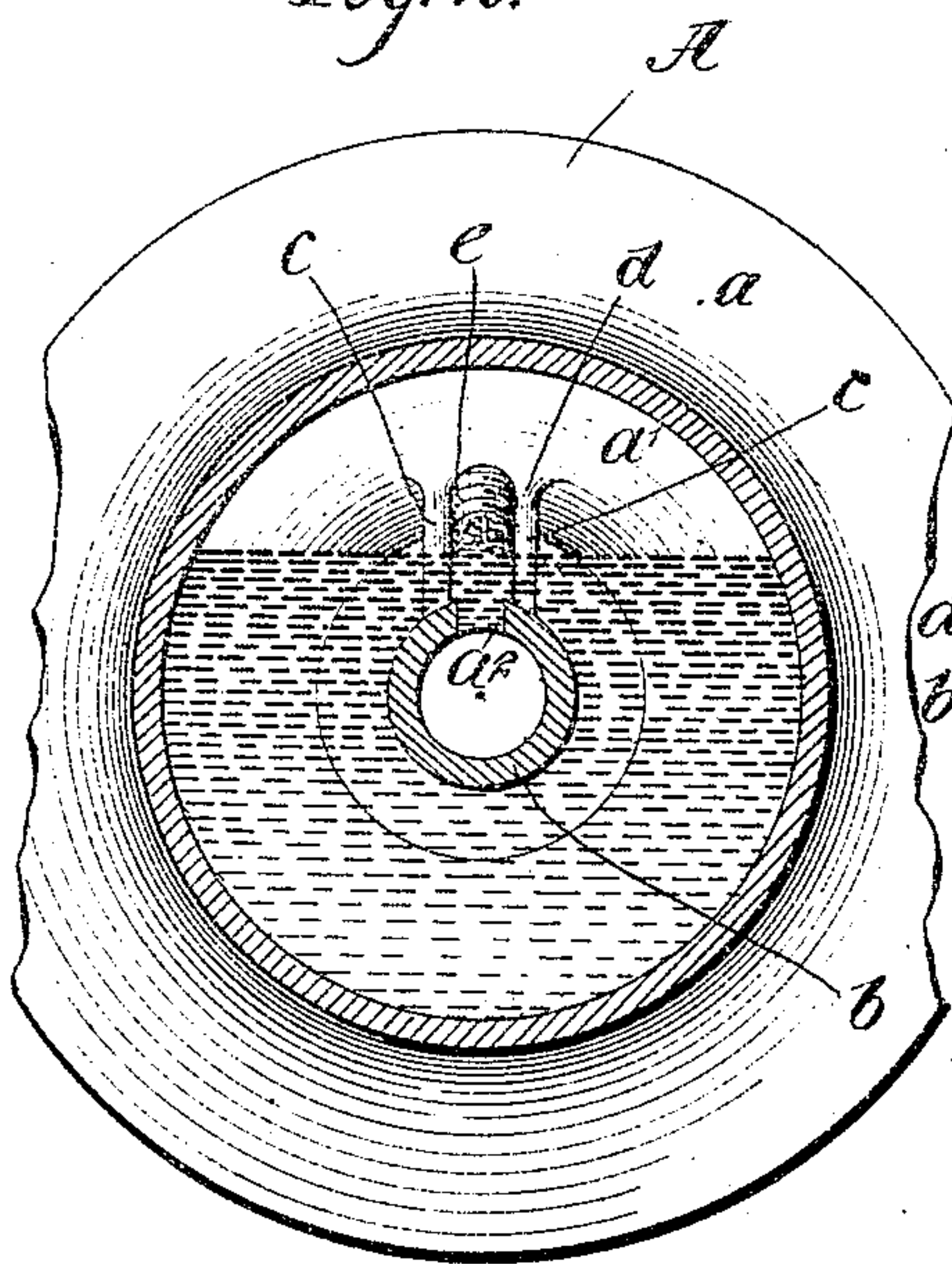


Fig. 3.

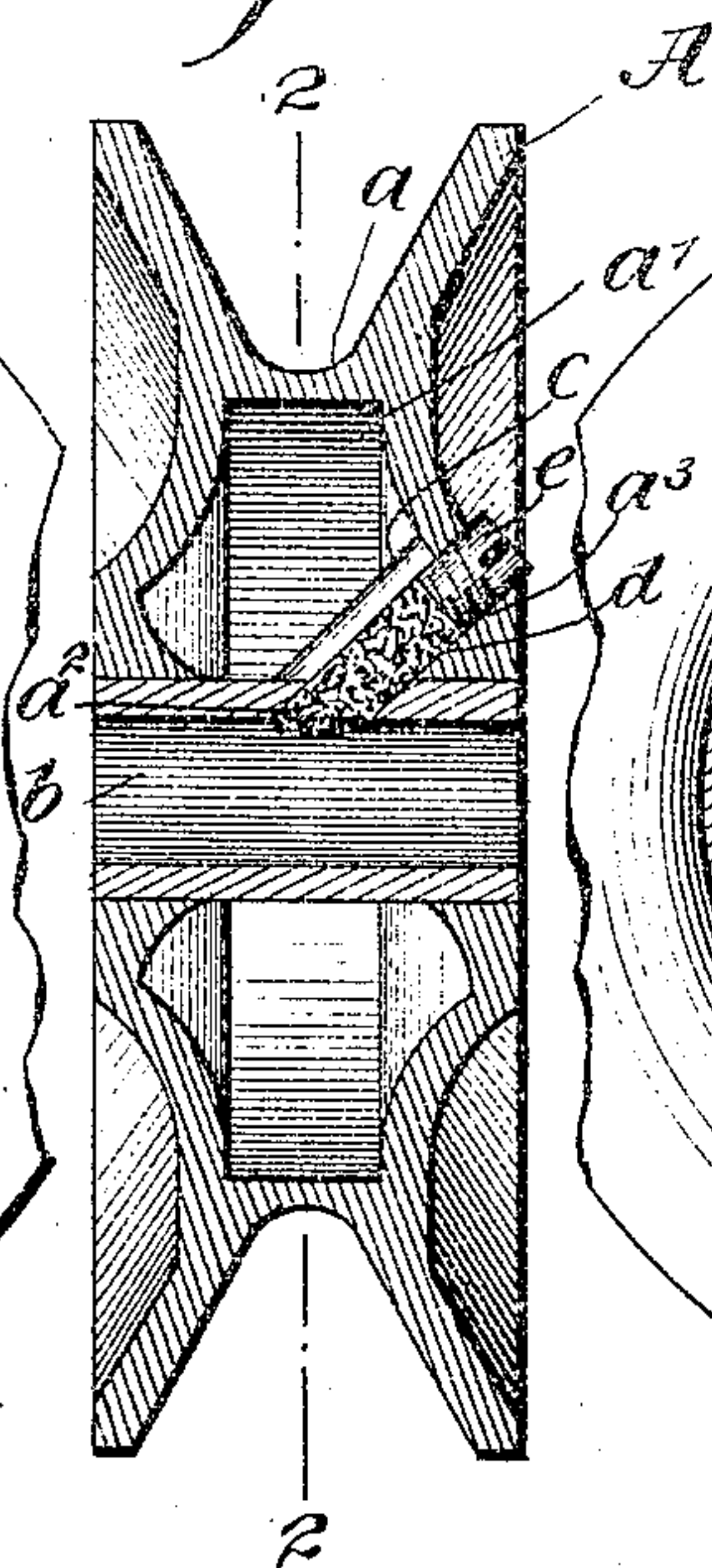
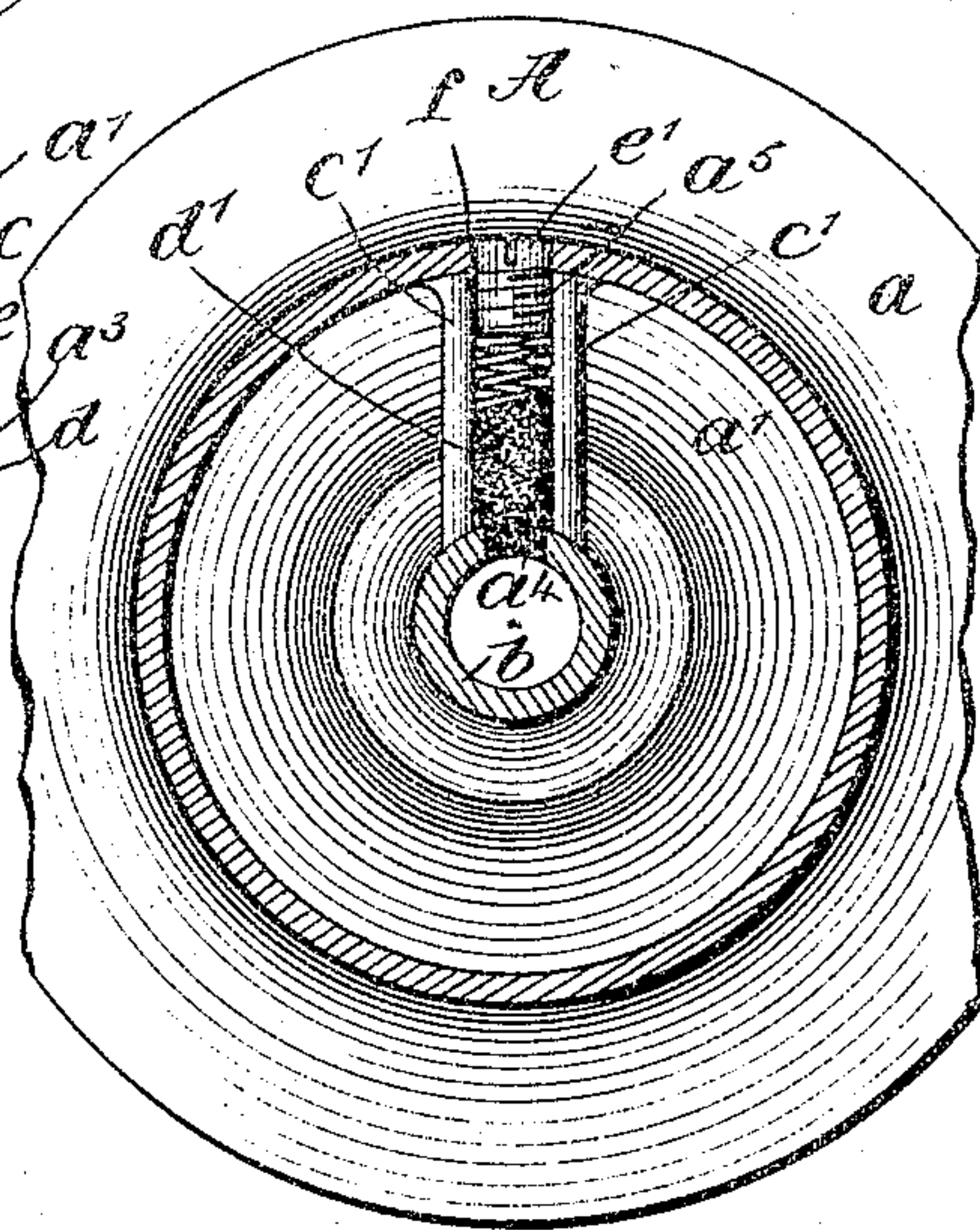


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN J. BOUCHARD, OF BRADFORD, PENNSYLVANIA.

TROLLEY-WHEEL.

SPECIFICATION forming part of Letters Patent No. 773,708, dated November 1, 1904.

Application filed August 28, 1903. Serial No. 171,085. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. BOUCHARD, a citizen of the United States, and a resident of Bradford, in the county of McKean and State of Pennsylvania, have invented a new Trolley-Wheel, of which the following is a full, clear, and exact description.

The invention relates particularly to the lubricating devices of trolley-wheels and the like; and the object of the invention is to produce an improved construction of such wheels, having in view the efficient lubrication thereof.

The invention will be hereinafter particularly described and then defined in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a trolley-wheel embodying my invention. Fig. 2 is a section taken about on the line 2 2 of Fig. 3. Fig. 3 is a section taken on the line 3 3, Fig. 1; and Fig. 4 is a view similar to Fig. 2, but illustrating a slight modification.

The wheel A is in its general exterior form similar to the well-known trolley-wheel, being provided with the usual peripheral groove *a*. As seen in Figs. 2 and 3, the interior of the wheel is formed hollow, as at *a'*, to provide an ample chamber for containing oil or other suitable lubricating substance. A passage *a*² leads from the chamber *a'* through the bushing *b* to the bore of the wheel for conducting the lubricant to the bearing-surface of the wheel, the passage in the construction shown in Figs. 1, 2, and 3 being diagonal. (See Fig. 3.)

Adjacent to the passage *a*² and in line therewith is a receiver formed by two spaced ribs *c c*, which are cast on the interior of the wheel. The receiver thus formed is adapted to hold cotton-waste or like material, (indicated by the letter *d*.) An orifice *a*³ is formed in the wheel A and leads from the interior chamber

diagonally to the exterior at the side of the wheel, and a plug *e*, fitting said orifice, serves to press the cotton-waste *d* into the passage *a*² to the bore of the wheel to insure a contact with the bearing-surface. The ribs *c c* being spaced, as best seen in Fig. 2, readily permit contact of the oil with the waste or like material *d*. The orifice *a*³ when plug *e* is removed enables oil to be supplied to the chamber *a'*.

In the form shown in Fig. 4 a passage *a*⁴ leads diagonally from the chamber *a'* through the bushing *b*, and in line with the passage an orifice *a*⁵ leads from the said chamber outward to the grooved periphery of the wheel, said orifice being closed by a plug *e'*. Ribs *c' c'* are cast on both side walls of the chamber *a'* and range diametrically. Two of these ribs are shown in Fig. 4. Between these ribs *c' c'*, which form a receiver, may be placed cotton-waste or the like or a piece of graphite *d'*, the same being pressed into the passage *a*⁴ by the plug *e'*, acting on the interposed spiral spring *f*.

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

A wheel having a hollow interior forming a chamber containing a lubricant and having a passage leading from the chamber to the bore of the wheel, and an orifice leading from the chamber to the exterior of the wheel, in line with the passage, a plug fitting said orifice, and spaced ribs forming a receiver in the interior of the wheel, in line with the passage, and a plug fitting said orifice.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN J. BOUCHARD.

Witnesses:

C. C. MELVIN, 2d,
E. C. EMERY.