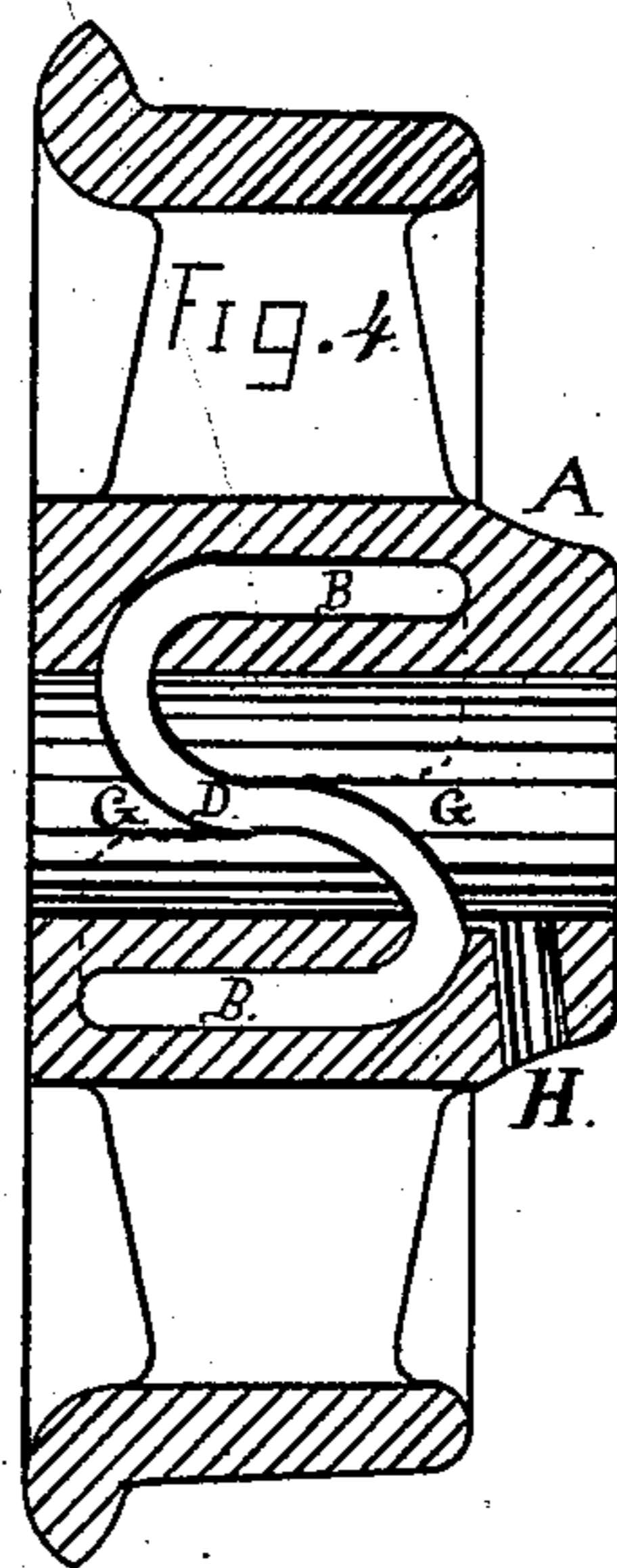
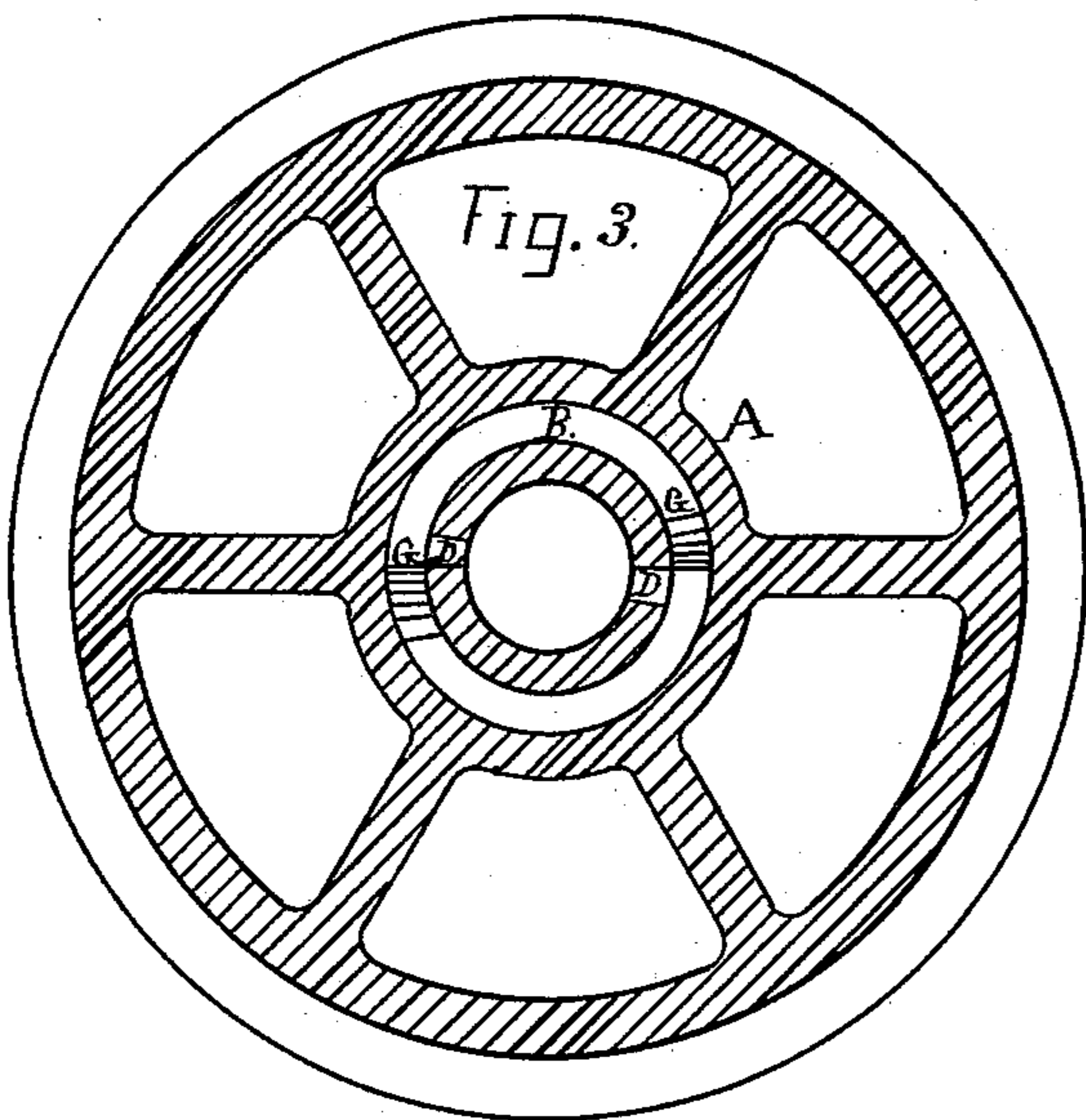
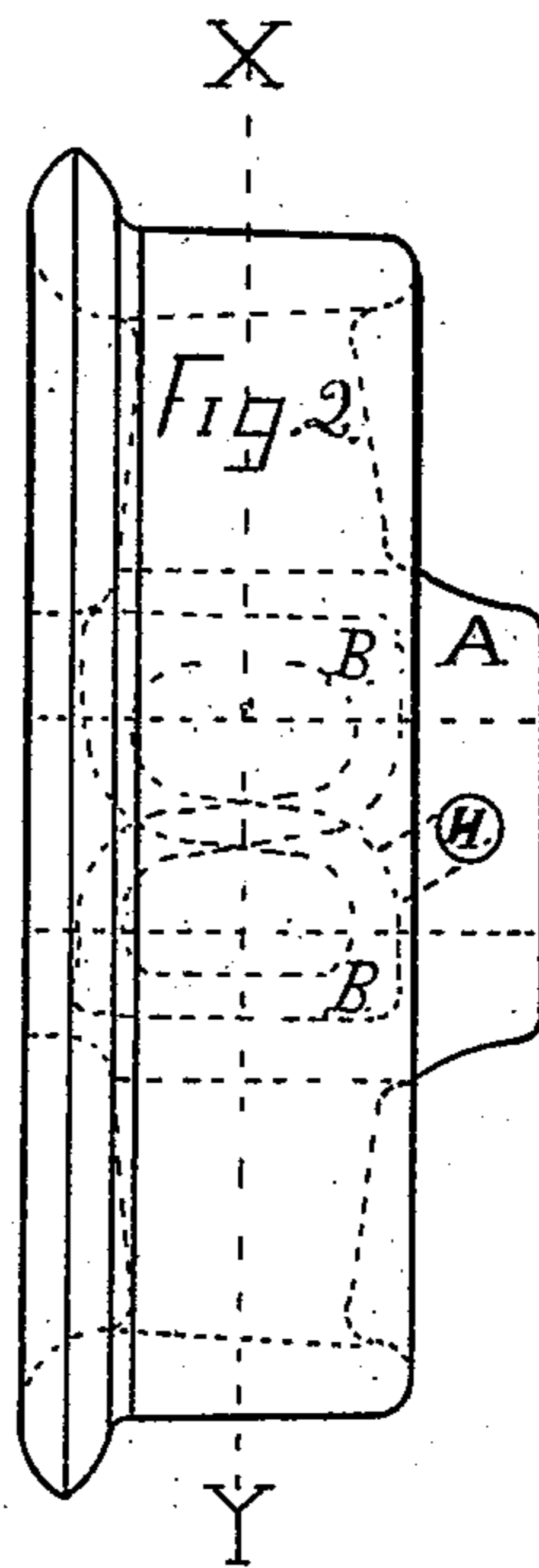
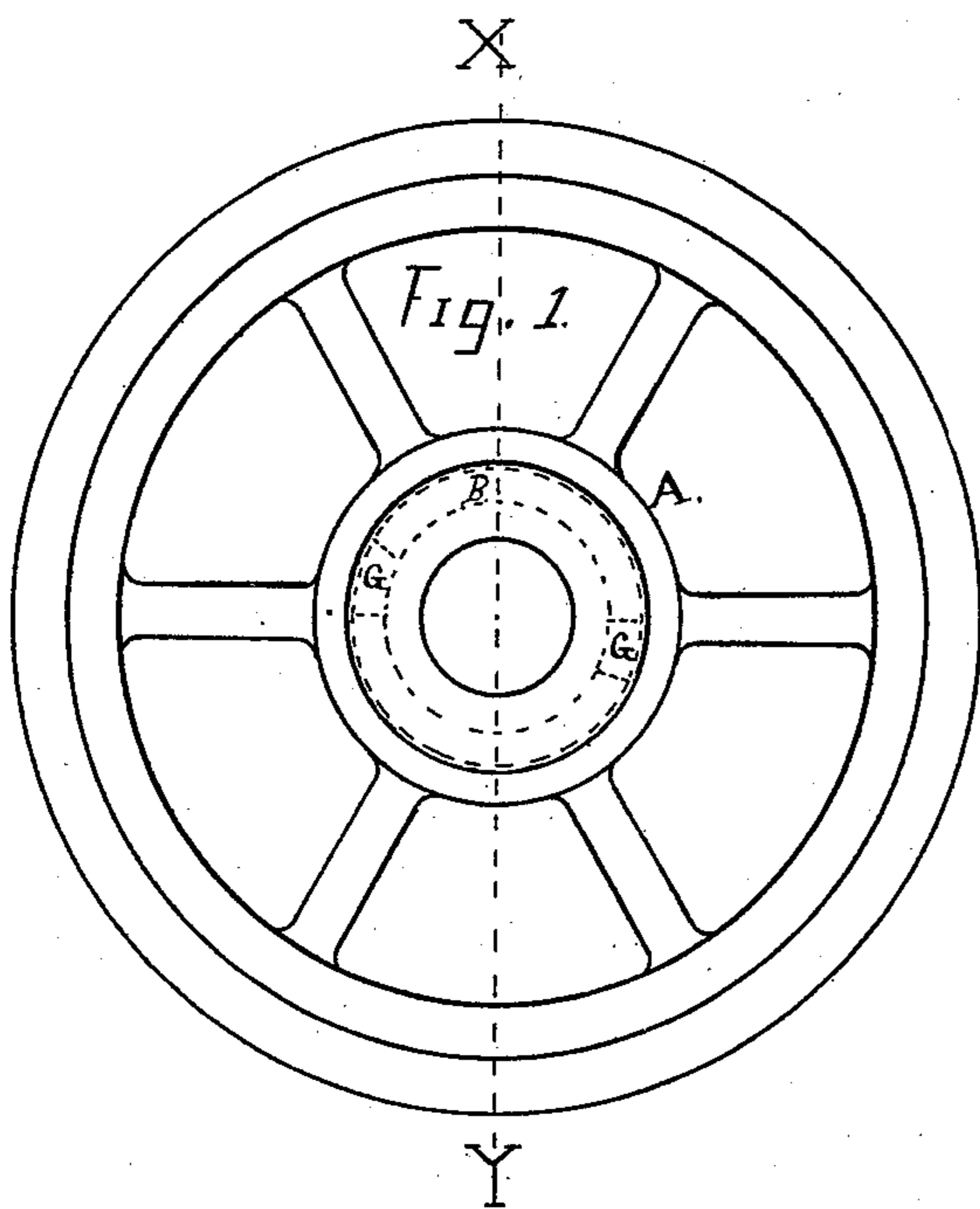


(No Model.)

W. T. SNYDER.  
SELF LUBRICATING WHEEL.

No. 300,913.

Patented June 24, 1884.



WITNESSES.

Oliver M. Hagley  
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INVENTOR.

William T. Snyder.  
By John H. Smith, Attorney.

# UNITED STATES PATENT OFFICE.

WILLIAM T. SNYDER, OF CATASAUQUA, PENNSYLVANIA, ASSIGNOR OF  
ONE-HALF TO JAMES W. FULLER, OF SAME PLACE.

## SELF-LUBRICATING WHEEL.

SPECIFICATION forming part of Letters Patent No. 300,913, dated June 24, 1884.

Application filed May 16, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM T. SNYDER, a citizen of the United States, residing at Catasauqua, in the county of Lehigh and State of Pennsylvania, have invented a new and useful Improvement in Self-Lubricating Wheels, of which the following is a specification.

My invention relates to wheels that work loose on an axle or shaft; and the object of my improvement is the construction of a loose wheel with a reservoir or oil-chamber in the hub, that will effectually lubricate the axle or shaft.

The invention consists in the combination, with the hub, of a loose wheel, an oil or grease chamber of irregular shape, and open to the axle or shaft by a slot diagonal to the hole of the wheel or axle or shaft, as will be hereinafter shown and described, referring to the annexed drawings, making a part of this specification, in which—

Figure 1 is a front or face view of a wheel having a hub constructed according to my improvement. Fig. 2 is an edge view. Fig. 3 is a vertical section on a line of X Y, Fig. 2. Fig. 4 is a vertical section on a line of X Y, Fig. 1.

Similar letters refer to similar parts throughout the several views.

The construction of my improved self-lubricating wheel is as follows: The hub A is con-

structed somewhat larger than usual. In this hub I cast a chamber, B, (shown by the dotted lines in Fig. 2,) in the form of a figure 8. In section, Fig. 4, it is shown in form of the letter S. This chamber opens into the hole of the wheel by a slot, D, of a form as is shown in Fig. 4, which is a diagonal curved opening across the face of the hole. The chamber B is constructed with break-walls G G. H is an opening in the hub for charging the chamber B with oil. This opening should be stopped with a screw-plug to exclude dirt.

The operation of my improvement is as follows: Oil is placed in the chamber B. When the wheel revolves, it will give a motion to the oil, throwing it from the center. The oil will come in contact with the break-walls G G, which will break the flow of oil and force it against the axles or shaft, thereby keeping the same lubricated under all speeds.

I claim—

In a wheel with a cast hub, A, for working loose on its axle or shaft, the combination of an oil or grease chamber, B, of irregular shape, with the diagonal opening D and break-walls G G, as shown, described, and for the purpose specified.

WM. T. SNYDER.

Witnesses:

WM. H. GLACE,  
JAMES TAIT.