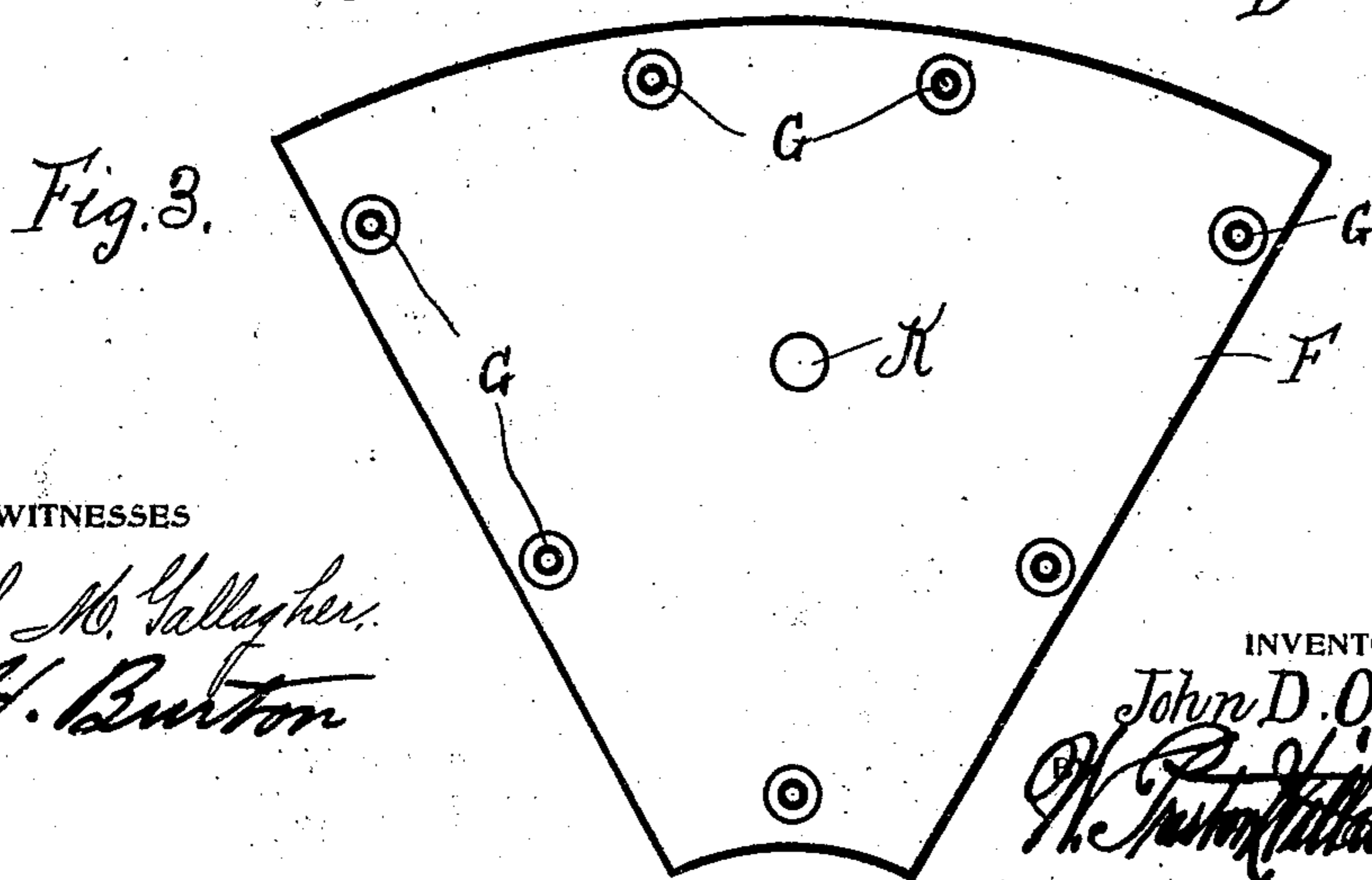
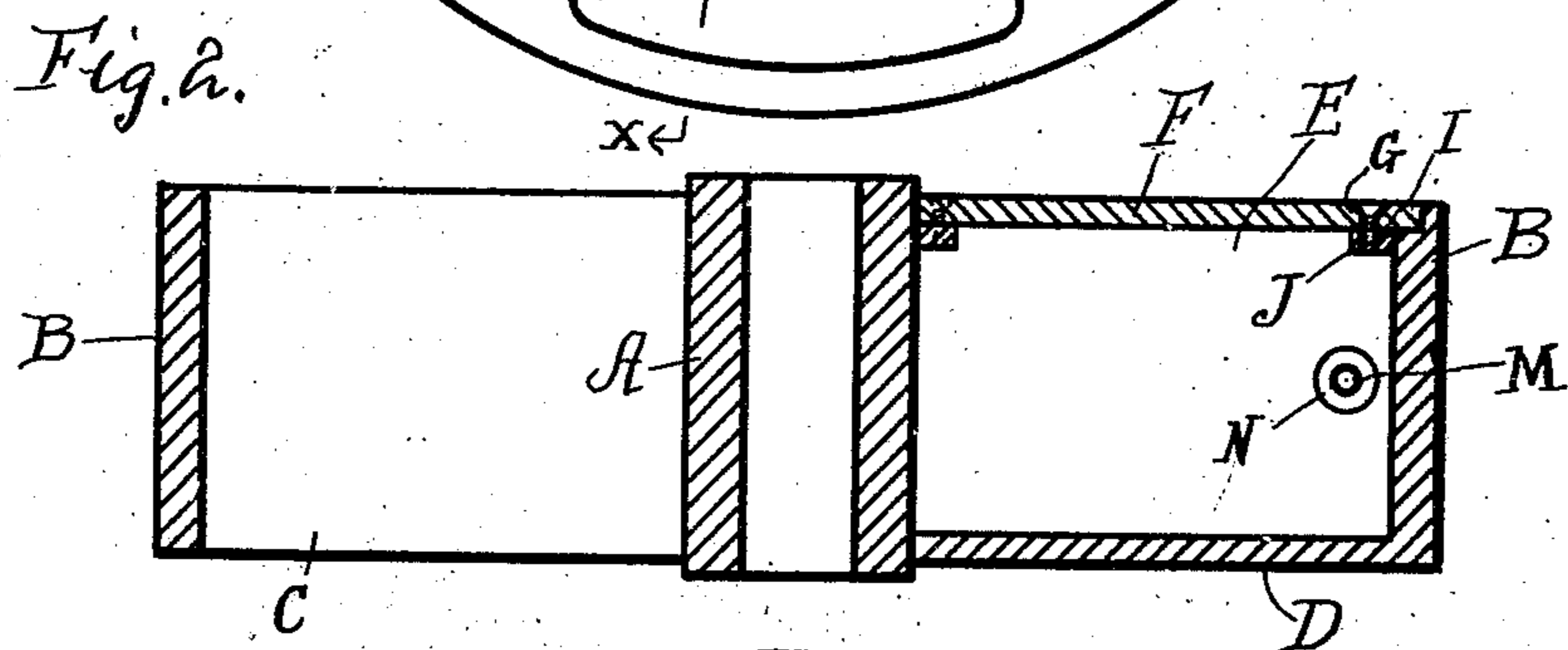
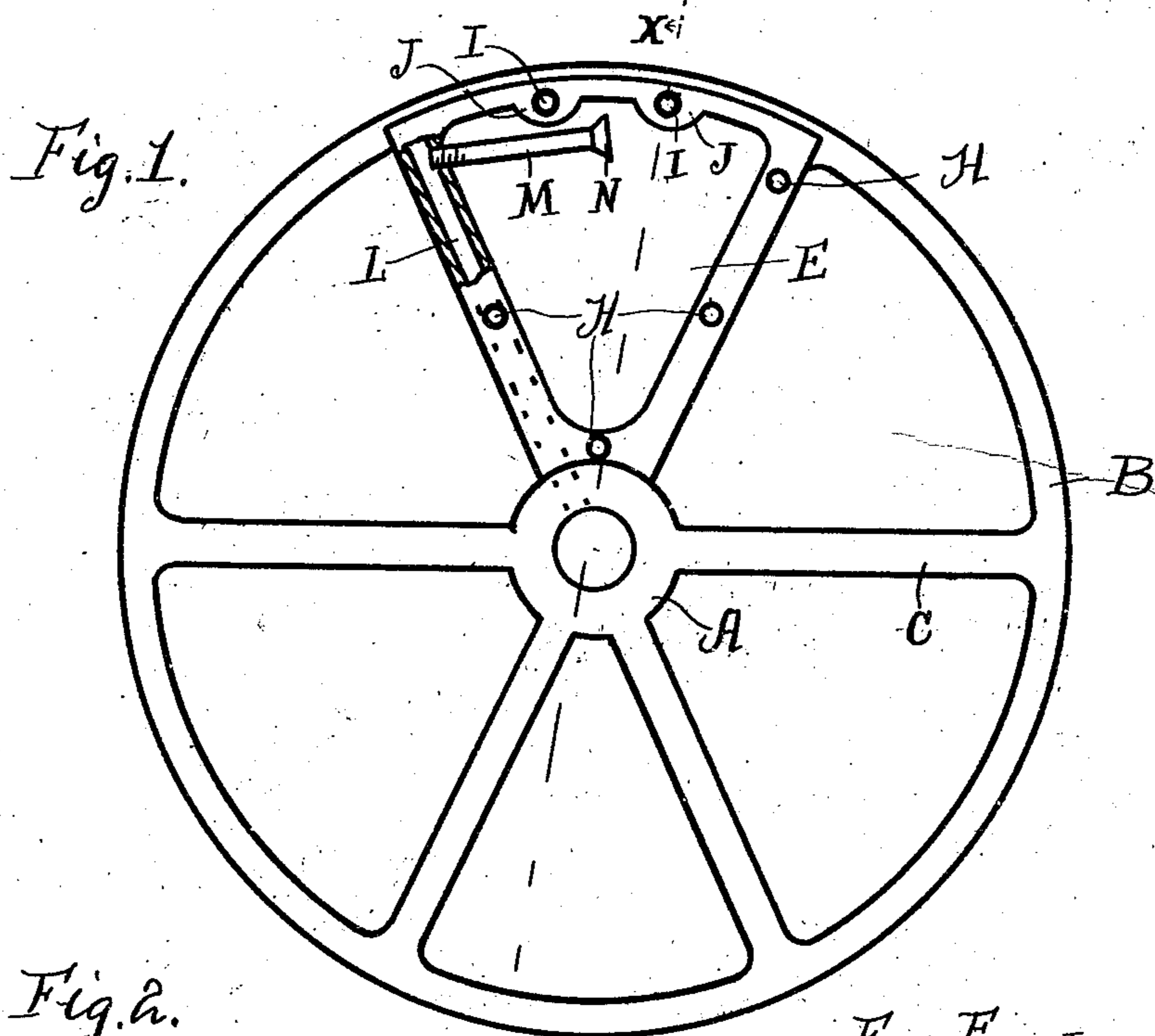


J. D. OLIPHANT.  
 SELF OILING DEVICE FOR PULLEYS OR WHEELS.  
 APPLICATION FILED AUG. 3, 1908.

928,688.

Patented July 20, 1909.



WITNESSES

S. M. Gallagher.  
 H. Burton

INVENTOR

John D. Oliphant  
 H. Burton

ATTORNEY

# UNITED STATES PATENT OFFICE.

JOHN D. OLIPHANT, OF TRENTON, NEW JERSEY.

## SELF-OILING DEVICE FOR PULLEYS OR WHEELS.

No. 928,688.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed August 3, 1908. Serial No. 446,522.

*To all whom it may concern:*

Be it known that I, JOHN D. OLIPHANT, a citizen of the United States, residing at Trenton, county of Mercer, and State of New Jersey, have invented certain new and useful Improvements in Self-Oiling Devices for Pulleys or Wheels, of which the following is a specification.

My invention relates to new and useful improvements in self oiling devices for pulleys or wheels, and has for its object to provide an exceedingly simple and effective device of this character whereby a quantity of oil may be placed in a chamber formed with the pulley or wheel, and this oil is then carried to the shaft on which the pulley or wheel is running, in small amounts until all the oil which has been placed in the chamber has been used.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation of a pulley embodying my improvement, the chamber plate or cover being removed, and a portion of one of the spokes being broken away. Fig. 2 is a sectional view at the line X—X of Fig. 1, looking in the direction of the arrows the cover or plate being shown in position, and, Fig. 3, a view of the chamber plate or cover.

In carrying out my invention as here embodied, A represents the hub of the pulley, B, the rim, and C the spokes thereof joining said rim and hub. The space between two of the spokes C is included by a side D, so as to form a receptacle or chamber E.

F indicates a chamber plate or cover having suitable screw holes G formed around the edge thereof, through which screws are adapted to pass, and be threaded into the openings H formed in the spokes C and the openings I formed in the lugs J, which are formed with the rim B of the wheel within the receptacle or chamber E.

K represents a hole formed in the cover F, so that oil may be placed within the chamber E without removing said cover. In

order that oil will be prevented from passing out of the chamber through this hole, a plug may be placed therein. The opening L is formed in one of the spokes C and passes from its outer end, lengthwise, through the spoke, and through the hub, so that the shaft which passes through said hub will come in contact with the mouth of the opening L. Threaded into the spoke, until it passes into the opening L, is a pipe M, the mouth of which may be flared as indicated by N, so that when the pulley turns in such a position that the receptacle E is at the bottom thereof, or below the shaft on which the pulley is placed, a certain amount of oil will enter the pipe M, pass into the opening L formed in one of the spokes C, and as the pulley turns around, the oil will run down through said opening L on to the shaft, thus constantly oiling the shaft, so that the pulley will easily run on the same.

From the foregoing description, it will be seen that by placing a quantity of oil in the receptacle E, the shaft on which the pulley is placed will be constantly lubricated, thus preventing the wearing of the parts, and producing an easily running pulley, which will require but very little attention. By having a removable chamber plate or cover, it facilitates the clearing of the receptacle or chamber of any dust or dirt which in any way enters the same.

Of course I do not wish to be limited to the exact details of construction, here shown, as these may be varied within certain limits without departing from the spirit of my invention.

Having thus fully described my invention what I claim as new and useful is—

1. In combination with a wheel or pulley having a hub, rim, spokes, one of said spokes having an opening running lengthwise through the same, and through the hub, and a side joining two of the spokes, thus forming a receptacle, of a pipe, having a flared mouth threaded into said opening, the flared mouth portion being within the receptacle, and a chamber plate or cover removably secured to the wheel or pulley over the receptacle, as specified.

2. In combination with a wheel or pulley formed to produce a receptacle between two of the spokes thereof, one of said spokes having an opening running lengthwise through the same, and through the hub thereof, of a pipe having a flared mouth and

a plate, removably secured to the wheel or pulley over the receptacle, as shown and described.

3. In combination with a wheel or pulley  
5 formed to produce a receptacle between two of the spokes thereof, said spokes having screw receiving openings formed therein and one of said spokes having an opening running lengthwise through the same and  
10 through the hub of the pulley, a plate or cover having screw receiving openings and an oil hole formed therein, adapted to be

removably secured to the spokes of the wheel or pulley over the receptacle, and a pipe having a flared mouth threaded into the opening formed in one of the spokes.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

JOHN D. OLIPHANT.

Witnesses:

S. D. OLIPHANT, Jr.,  
RICHARD S. WILSON.