

No. 44,607.

S. COON.
WATCH.

PATENTED OCT. 11, 1864.

Fig:1

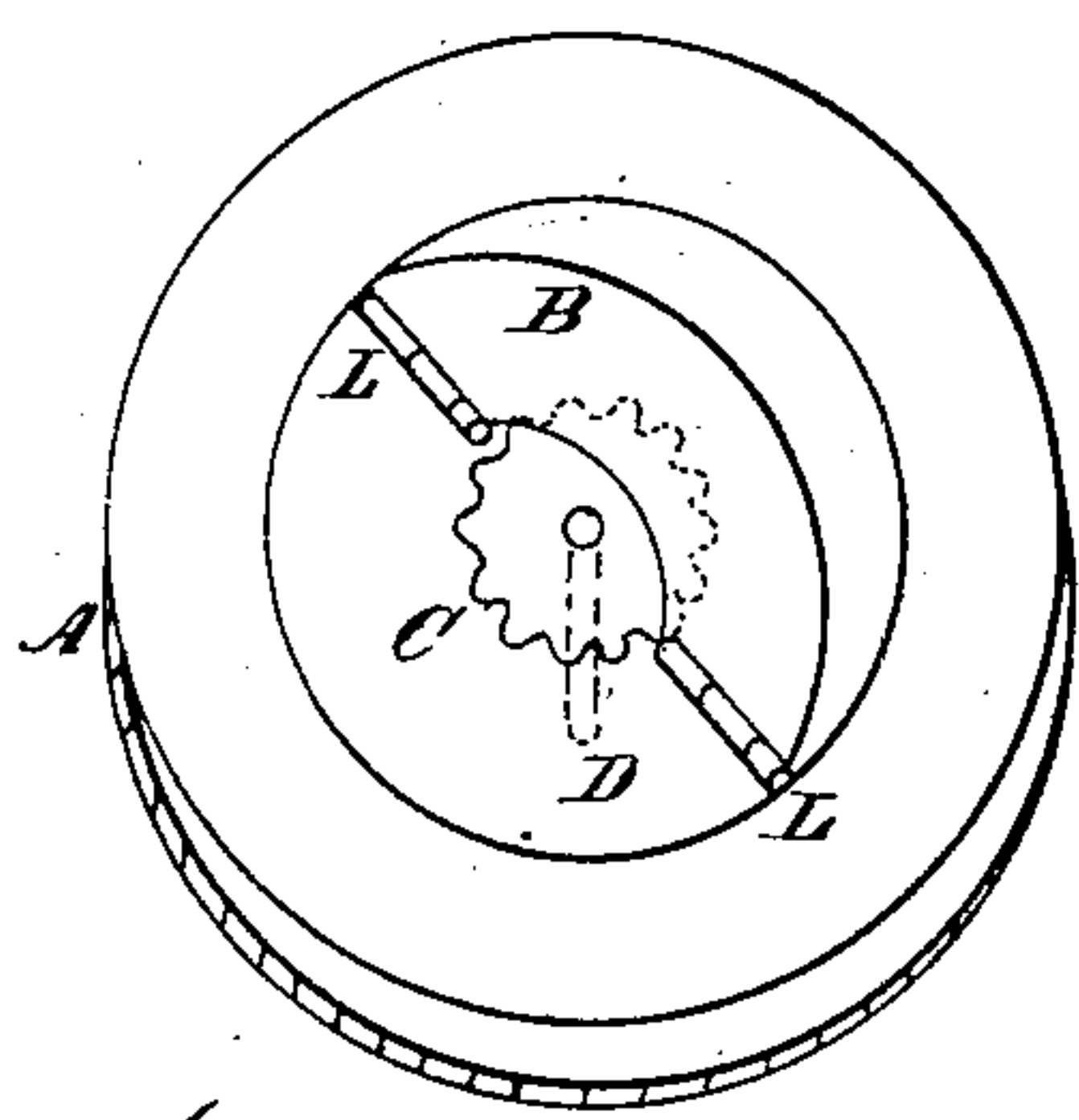


Fig:2.

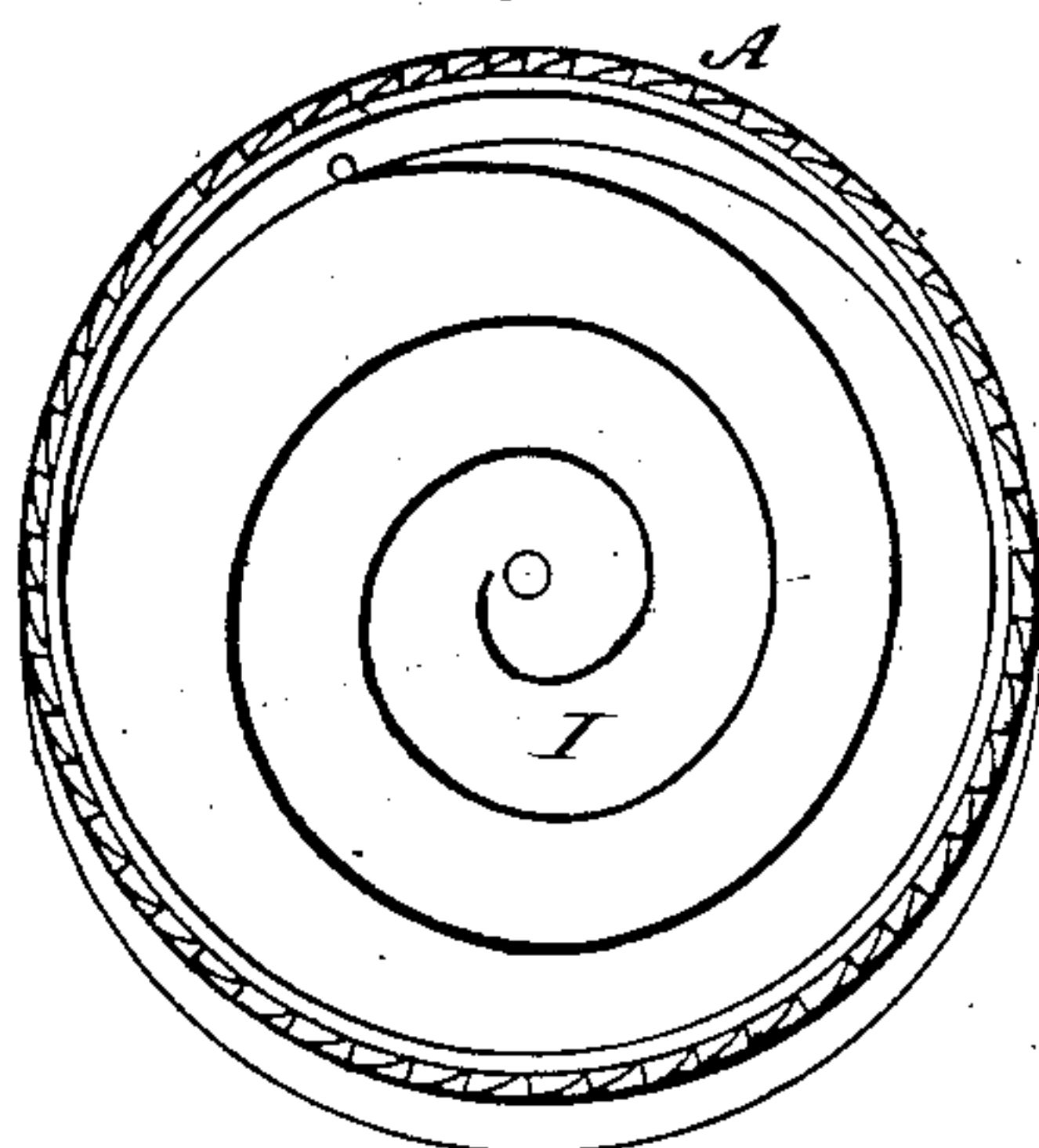


Fig:6. Sectional
View

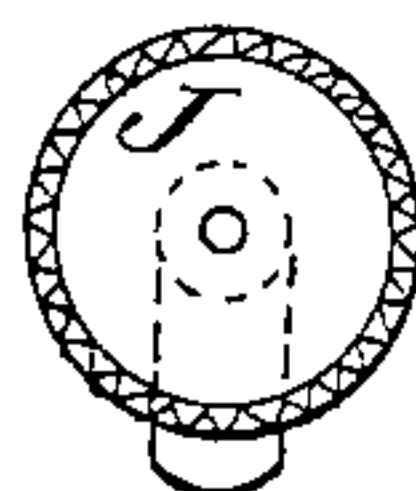
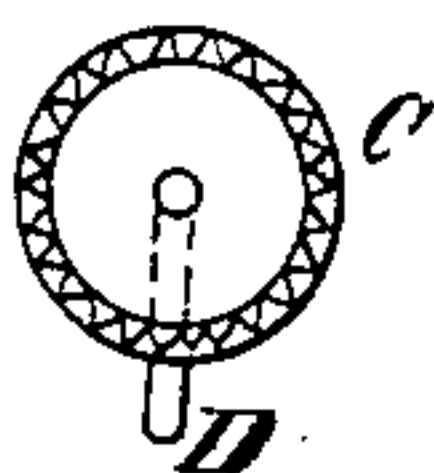


Fig:3.

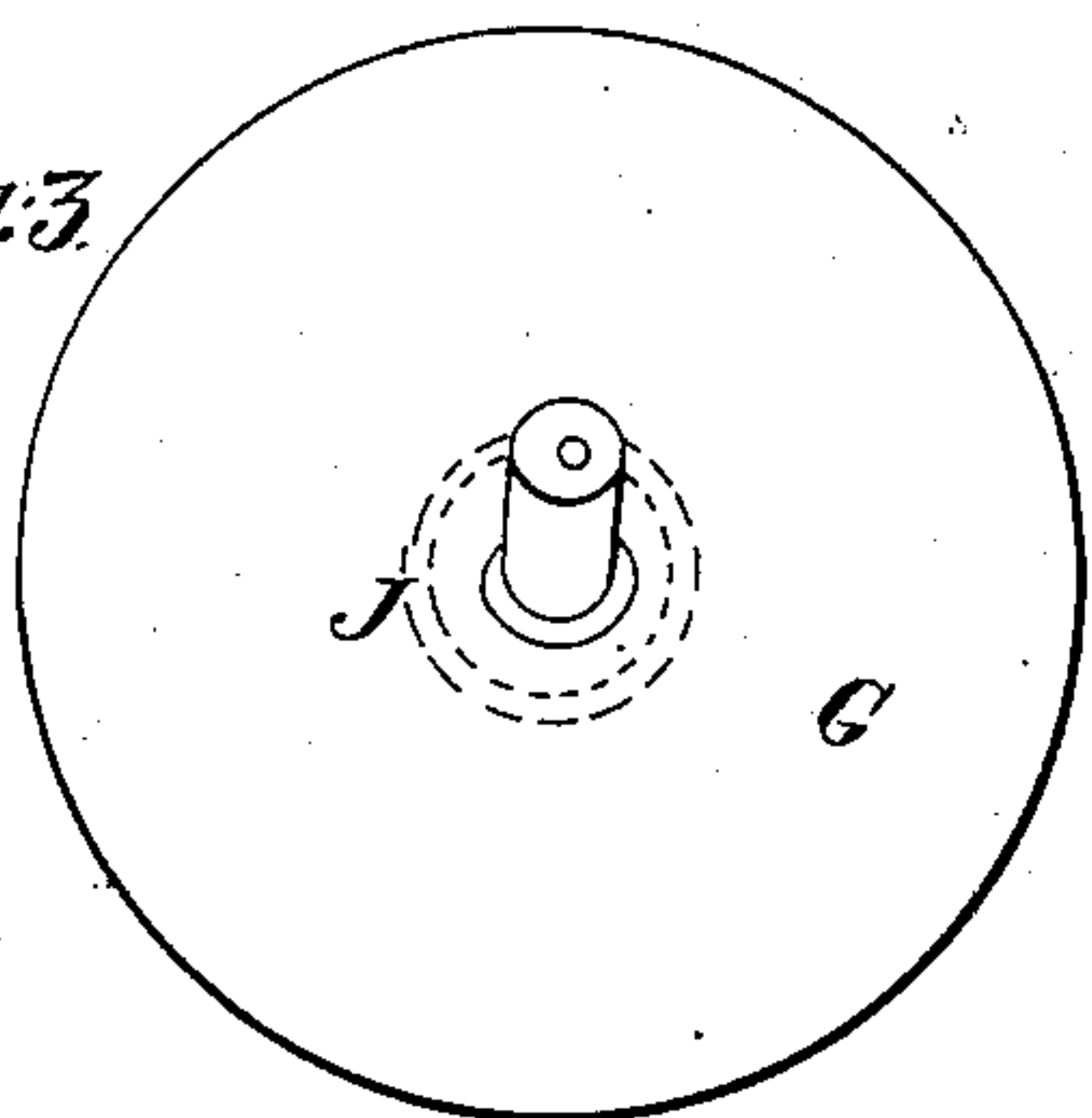


Fig:5.

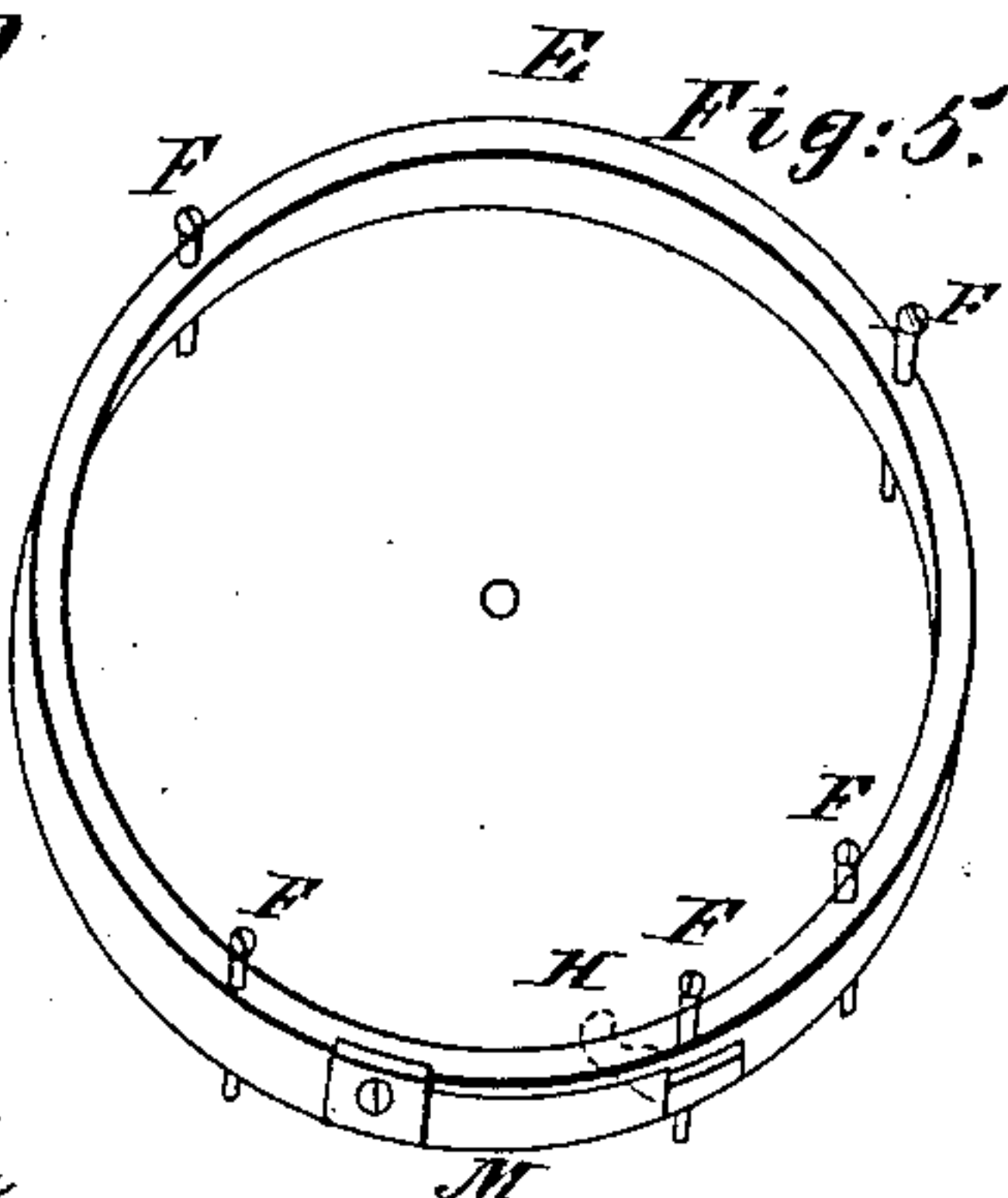
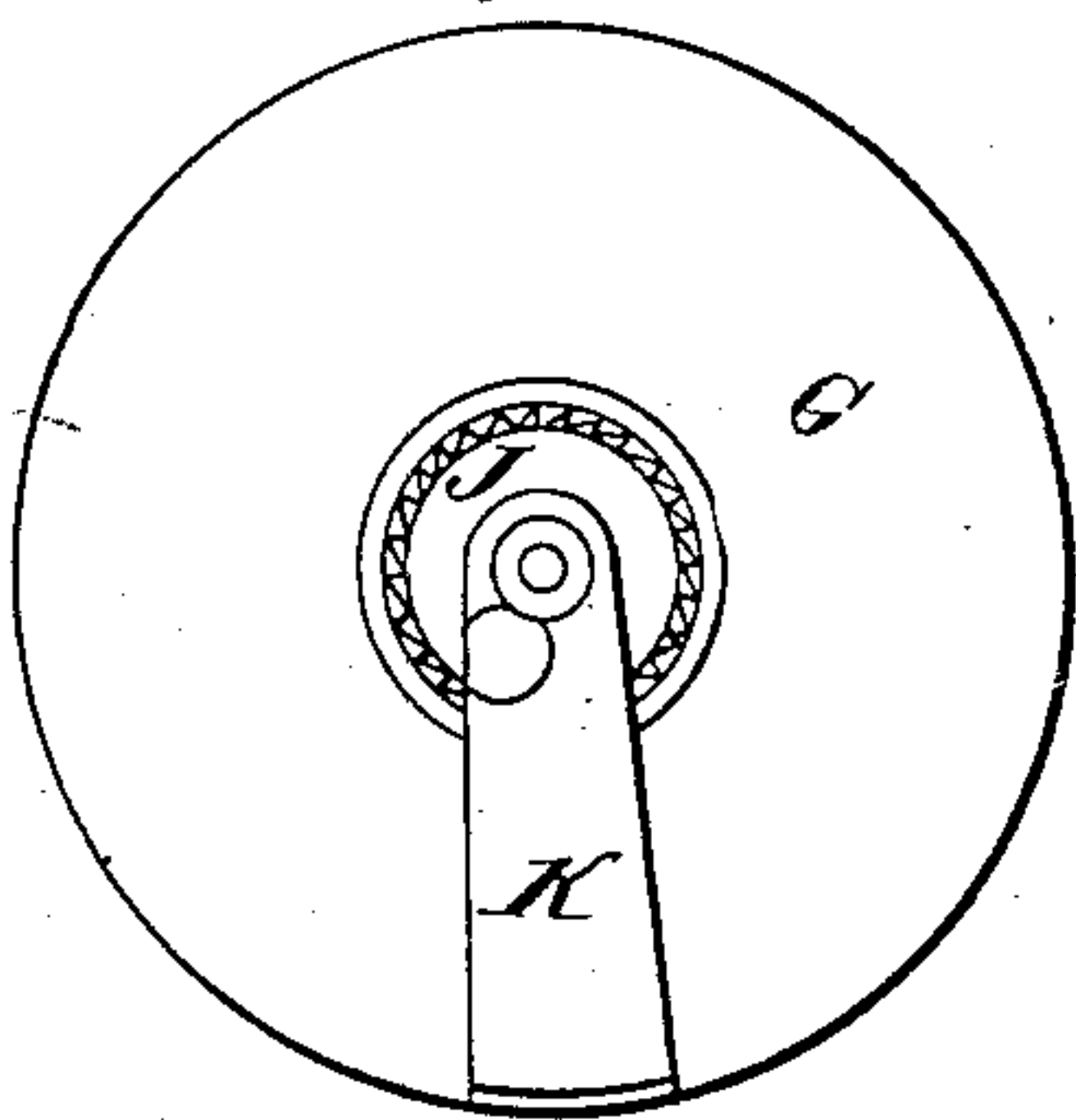


Fig:4.



Witnesses:

Franklin Reigart
George M. Howard

Inventor:

Simeon Coon

UNITED STATES PATENT OFFICE.

SIMEON COON, OF HAVRE DE GRACE, MARYLAND.

IMPROVEMENT IN WATCHES.

Specification forming part of Letters Patent No. 44,807, dated October 11, 1864.

To all whom it may concern:

Be it known that I, SIMEON COON, of Havre de Grace, county of Harford, and State of Maryland, have invented a Center barrel-wheel and stationary winder for winding watches and setting the hands; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention is, placing a barrel-wheel on the center of the main watch-plate, and turning the barrel-wheel to wind up the watch by means of a hinged stationary winder. The barrel-wheel being secured to the main plate by a flanged rim, a center wheel is located in a recess of the plate, and another center wheel operated by the thumb and finger sets the hands of the watch.

The object of my invention is to make a watch run from one to eight days.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 represents the barrel-wheel, hinged plate, and center wheel; Fig. 2, the underside of barrel wheel containing the spring; Fig. 3, top side of main plate; Fig. 4, the under side of main plate; Fig. 5, the flanged rim with spring and dog; Fig. 6, an end view of the devices combined.

A represents the center barrel-wheel, upon which is a hinged plate, B, for winding the watch. The center wheel, C, is for the purpose of turning and setting the hands by means of the center-pin D, which extends through the center of the barrel-wheel A, and is connected with and moves the ordinary hand-wheels of the works of the watch.

E is the flanged rim that is fastened by screws F to the main plate G for the purpose of securing the barrel-wheel A to the main plate of the watch. It has also a dog, H, attached, that falls into the teeth of the barrel-wheel A, to hold the wheel when wound up. The spring I, being located on the inside of the barrel-wheel A, acts upon the center wheel, J, located in a recess of the main plate G, which gives motion to the works of the watch.

K is the common cock-plate that holds the center wheel, J.

The hinge-plate B is for the purpose of turning the barrel-wheel A from right to left to wind the watch up. The hinged part L is cut through the barrel-wheel A, so that the plate B, when lowered to its place, forms an even surface, and is raised when required to wind the watch. The spring M on the rim E presses upon and acts upon the dog H, so as to hold the dog in the teeth of the wheel A to prevent the wheel from running back.

The object and advantages are: First, this invention keeps the dust and dirt from entering the works of a watch that usually enter the common key hole, which I dispense with; secondly, I also wind the mainspring in the center, instead of between the center and the rim of the watch, and dispense with the use of a watch-key; thirdly, by my invention a watch is made to run for eight days, as well as one day, on account of the length of the spring in the barrel-wheel A, which spring may be six feet long, instead of fifteen or sixteen inches, as in the ordinary watches, for the large barrel-wheel A allows me to insert a much larger and heavier spring than can be used in the ordinary watches, giving more power to drive and extend the movements and time of a watch; fourthly, by reason of dispensing with a watch-key, the post of the watch is shorter, and the watch is made flatter and neater.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. Placing the barrel-wheel A on the center of the main watch-plate G and turning the barrel-wheel to wind up the watch by means of the hinged stationary winder B, as herein described.

2. The flanged rim E, for securing the barrel-wheel A to the main plate G, as described.

3. Attaching the mainspring I to the center wheel, J, and the outer end attached to the rim of the barrel-wheel A.

4. The arrangement and combination of the barrel-wheel A, hinged winder B, flanged rim E, and center wheels, J and C, for winding a watch and setting the hands at the center of a watch.

SIMEON COON.

Witnesses:

J. FRANKLIN REIGART,
GEO. M. HOWARD.