

T. B. McConaughey,
Governor.

N^o 64,435.

Patented May 7, 1867.

Fig. 1.

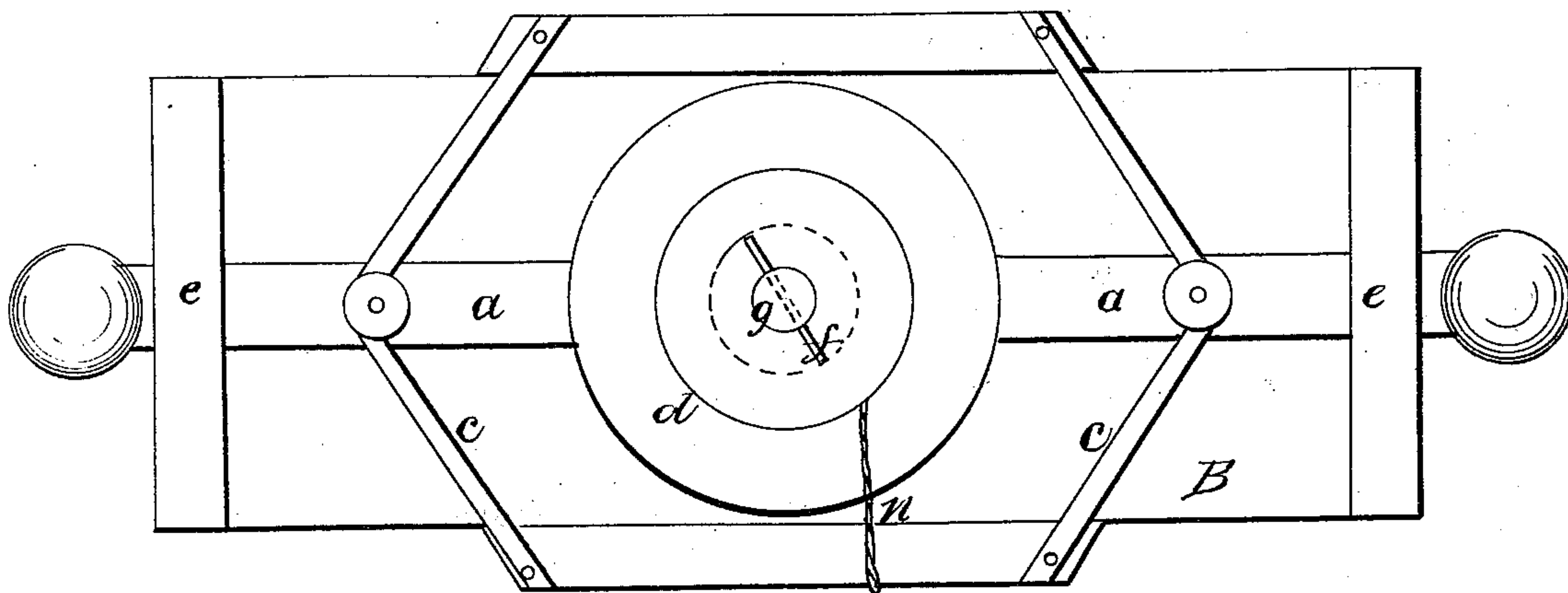
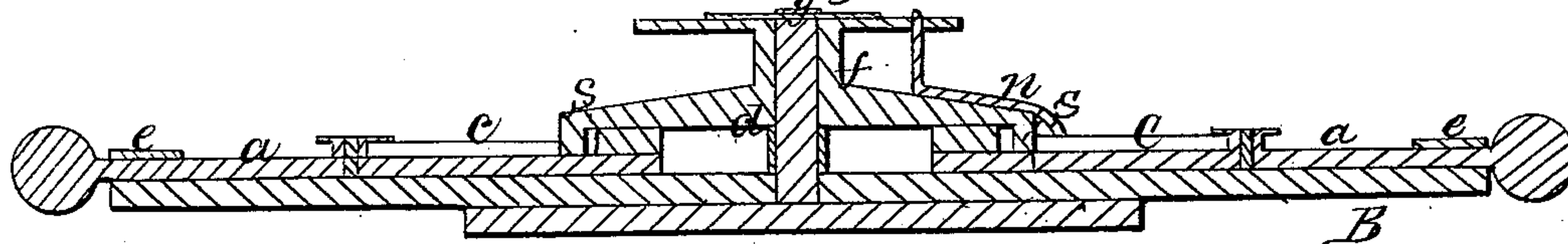


Fig. 2.



Witnesses:
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THOMAS B. McCONAUGHEY, OF NEWARK, DELAWARE.

Letters Patent No. 64,435, dated May 7, 1867.

IMPROVEMENT IN GOVERNORS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS B. McCONAUGHEY, of Newark, Delaware, have invented certain new and useful Improvements in Governors for Steam Engines; and I hereby declare that the following is a true, full, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 in the annexed drawings, which make a part of this specification, represents a plan view of my governor.

Figure 2 is a central longitudinal vertical section of the same.

The letter B, in fig. 1, designates the main or bed-piece, to which the governor is attached. Upon the face of the main piece B the two governor-arms *a a* are placed. These arms are provided at their outer ends with balls, as usual, and are kept in position on the face of main piece B by the transverse bars *e e*, the openings under the said bars being sufficiently wide to admit of the lateral play of the arms *a a*. Between the inner ends of arms *a a* is the axle *g*, on which the collar *d* is designed to work. The collar *d* is formed with a flange around its bottom, which, when the collar is in position, will rest on the surface of arms *a a*. *c c* represent two gum-elastic springs, placed on opposite sides of collar *d*. These springs are wrapped at their centre around a bolt on the surface of arms *a a*; and the opposite divisions, inclining inwards at a slight angle, are fastened at their respective ends to blocks on the two sides of main piece B. *s s* represent two small cylindrical elevations, placed on the inner ends of arms *a a*. In thickness the said elevations are made to correspond with the width of the flange on collar *d*, and are intended to increase the friction on collar *d* when it is required. To pulley *f*, which is made solid with collar *d*, a string is attached, which is fastened at its other end to the valve or brake-lever.

The operation of my governor is as follows: The main piece is attached either to a fly-wheel or shaft, and the cord *n* is fastened to the valve or brake-lever, as the case may be. When the governor is set in motion the arms *a a* will be driven from the centre by centrifugal force, and the elevations *s* made to press against the flange on the collar *d*, and by increasing the friction on said collar will cause it to revolve with the axle, and wind up the cord *s*, which, being tied to the valve, as above stated, will check the speed of the engine.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The governor-arms *a a*, in combination with the main piece B and loose collar *d*, as and for the purpose set forth.

2. The springs *c c*, in combination with governor-arms *a a*, substantially as and for the purpose specified.

THOS. B. McCONAUGHEY.

Witnesses:

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