

No. 754,880.

PATENTED MAR. 15, 1904.

D. J. LYON.
GOVERNOR VALVE.

APPLICATION FILED SEPT. 22, 1902.

NO MODEL.

Fig. 1

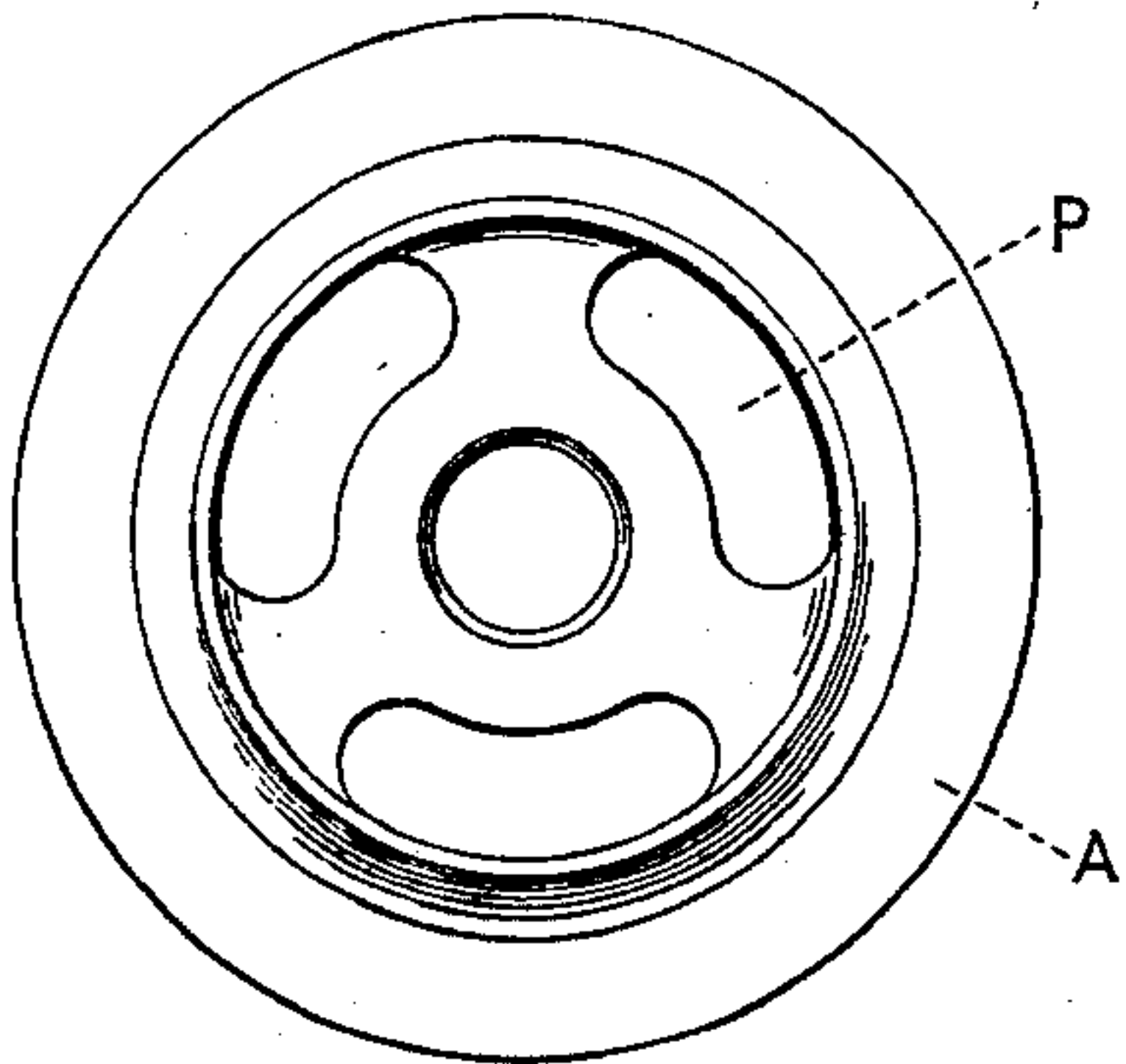


Fig. 2 2 SHEETS—SHEET 1.

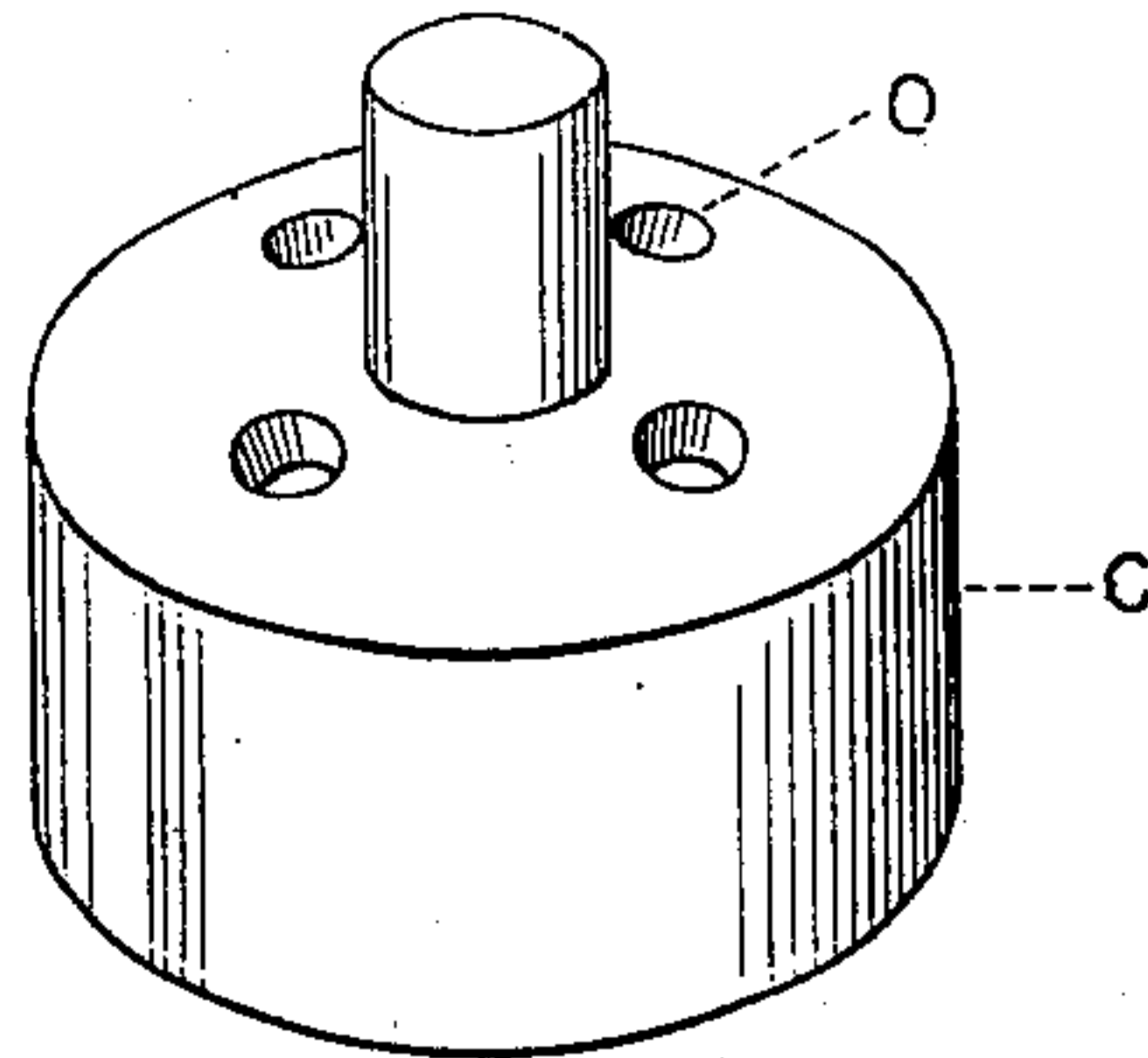


Fig. 3

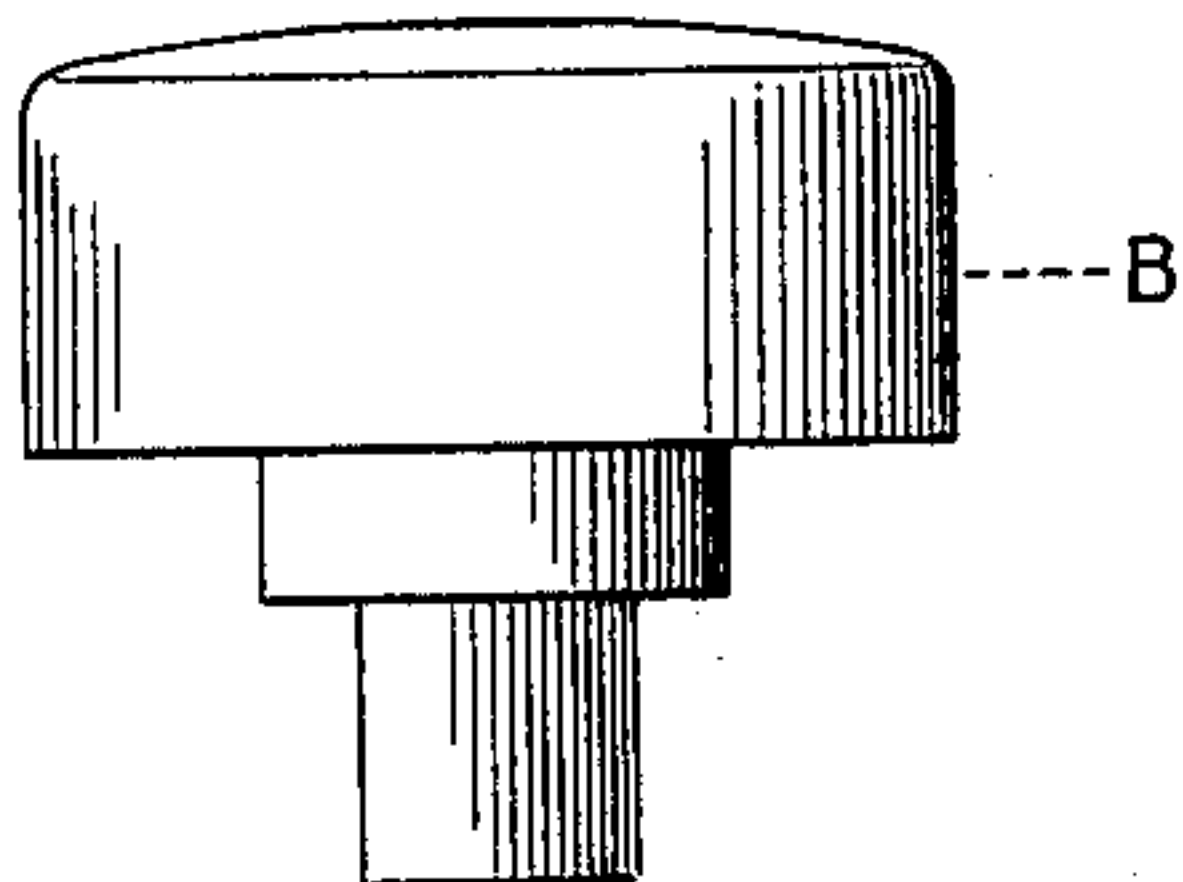
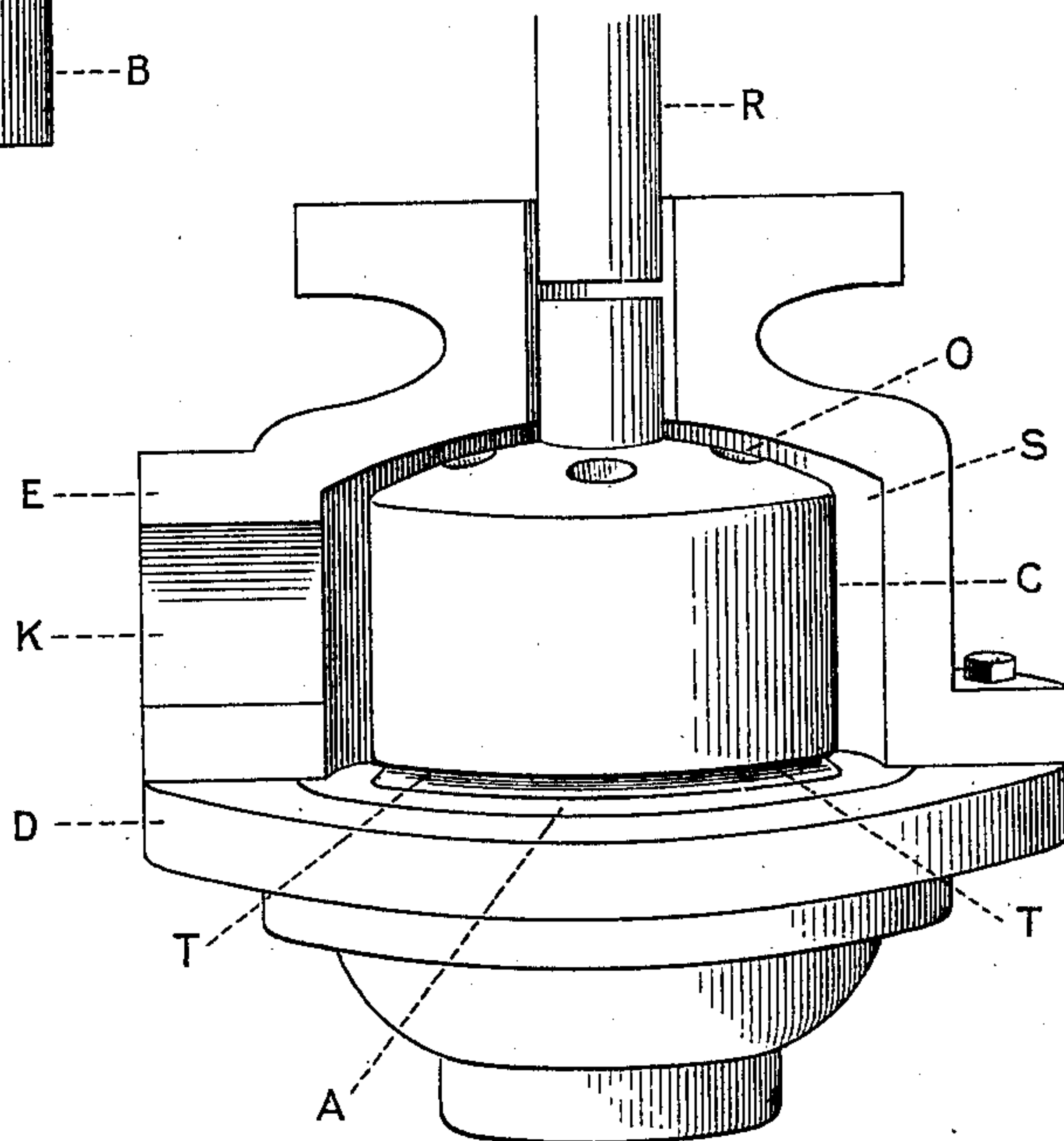


Fig. 4



WITNESSES:

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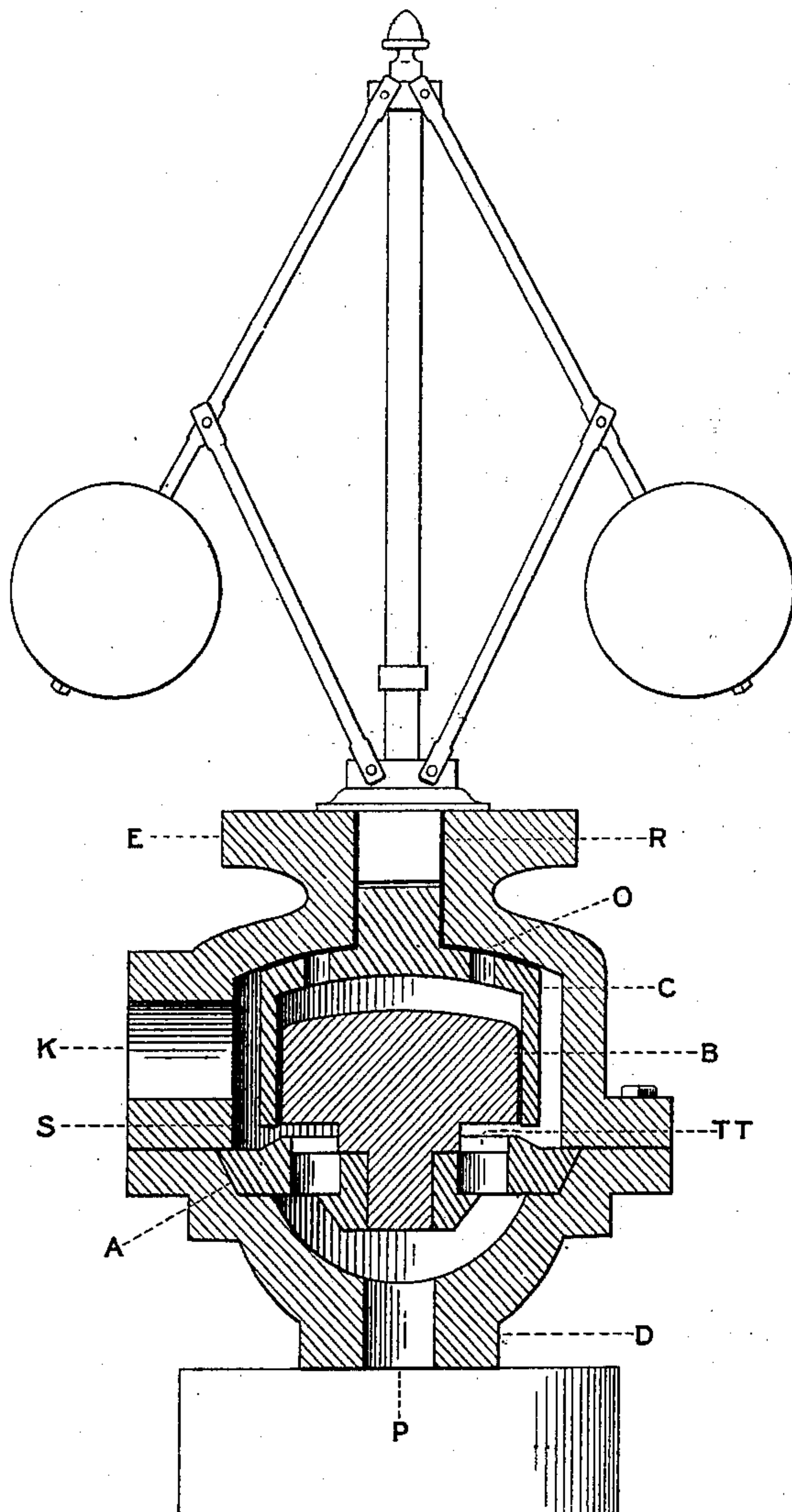
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NO MODEL.

2 SHEETS—SHEET 2.

FIG. 5.



WITNESSES:
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UNITED STATES PATENT OFFICE.

DANIEL JONES LYON, OF GREENWICH, CONNECTICUT.

GOVERNOR-VALVE.

SPECIFICATION forming part of Letters Patent No. 754,880, dated March 15, 1904.

Application filed September 22, 1902. Serial No. 124,285. (No model.)

To all whom it may concern:

Be it known that I, DANIEL JONES LYON, a citizen of the United States, and a resident of Greenwich, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Governor-Valves, of which the following is a specification.

This invention relates to improvements in governor-valves for steam and other engines.

The object of my invention is to provide a governor-valve which is rapid in operation, exceedingly simple in construction and action, and quick control of the speed of the engine.

The accompanying drawings, forming part of this specification, show, in—

Figure 1, a top view of lower section of valve; Fig. 2, a side and top view of valve-cap; Fig. 3, a side view of middle section of valve; Fig. 4, a view of casing with valve in position. Fig. 5 shows the valve open.

Referring to the drawings, the letter A designates the valve-seat, having a plurality of openings P for admission of steam to the engine.

The letter B designates the middle section, having a stem which enters the central opening in valve A and is rigidly secured thereto.

C designates the valve made in cap or hood shape form, having several openings O in the top thereof, said middle section B serving as a guide for said valve.

D shows lower section of casing.

E shows upper section of casing.

K shows steam-inlet.

S shows steam-space between the inside of the casing and valve.

R shows the governor-rod.

T shows steam-entrance to valve.

P shows openings for entrance of steam to operate the engine.

The lower section of valve-seat A is rigidly secured to the lower section of the casing D by the upper section of the casing E, which is secured to the section D by bolting or otherwise. The middle section B is rigidly secured to valve-seat A by the stem of said section B entering the central opening in valve-

seat A. The top or crown portion of the valve C, having several openings in the top thereof, is steam-floatable, sufficient space being provided between the surrounding wall of the middle section B and the inner surrounding wall of the valve C to permit of free movement of said valve.

The steam enters the casing at K, passes to the valve-seat A through space T to operate the engine by passing through the openings P. The steam entering the casing E passes under and into the valve C, upward through the openings O, causing the valve C to rise or float. This opens the opening in the middle section B, allowing the steam to pass freely through the openings in the valve-seat A to the engine cylinder or chest. The steam-floatable valve C acts instantly by the governor's action, closing down flush to the lower section of the casing, preventing entrance of steam to the engine. In fact, an engine equipped with one of these valves in conjunction with a suitable governor cannot run wild, as the power is so quickly cut off from the engine.

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

In a governor-valve, the combination with the casing having a steam-inlet, a valve-seat provided with a central opening therein, a plurality of openings surrounding the central opening in said seat, a middle section having a stem secured to the said central opening of the valve-seat, of a valve for inclosing said middle section, said valve being provided with openings in its crown or top portion, and said middle section serving as a guide for the said valve, substantially as specified.

Signed at Greenwich, in the county of Fairfield and State of Connecticut, this 15th day of August, A. D. 1902.

DANIEL JONES LYON.

Witnesses:

CHARLES O. DERBY,
HENRY B. WHITE.