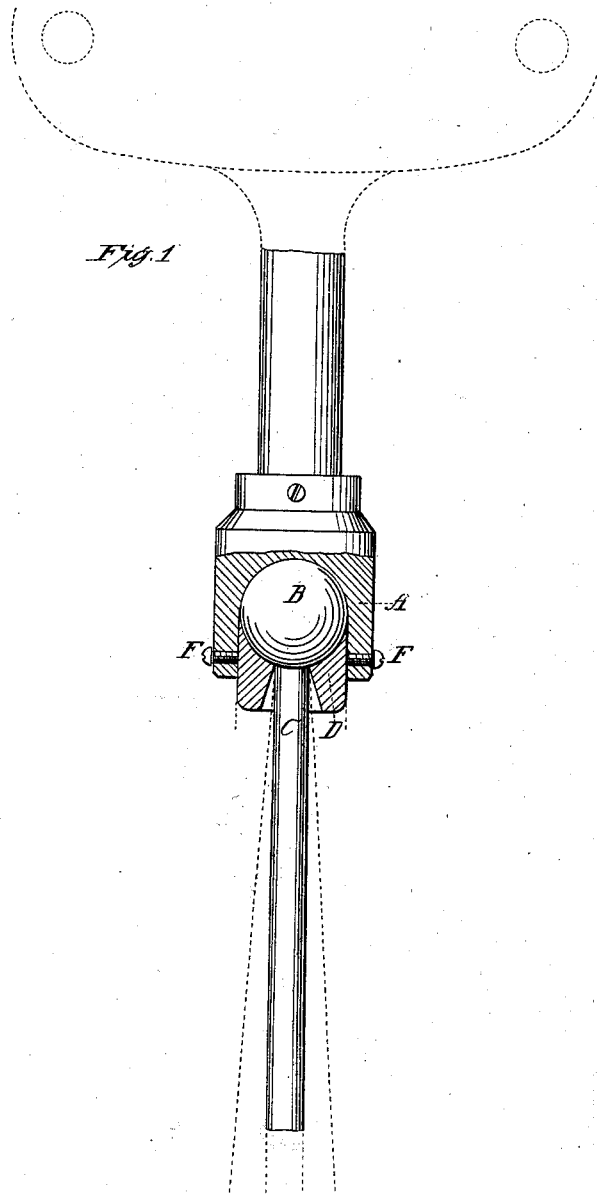


C. W. Le Count,
Governor.

No 49,422.

Patented Aug. 15, 1865.



Witnesses:

Wm. Vine
A. N. Camp

Inventor:

C. W. Le Count

UNITED STATES PATENT OFFICE.

CHARLES W. LE COUNT, OF NORWALK, CONNECTICUT.

IMPROVEMENT IN GOVERNOR-VALVES.

Specification forming part of Letters Patent No. 49,422, dated August 15, 1865.

To all whom it may concern:

Be it known that I, CHARLES W. LE COUNT, of the town of Norwalk, county of Fairfield, and State of Connecticut, have invented a new and useful Improvement in the Mode of Constructing Ball-and-Socket Joints for the Throttle-Valve Rod of Steam-Engine Governors; and I do hereby declare that the following is a correct description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in the arrangement of a ball-and-socket joint in the throttle-valve rod of steam-engine governors, to compensate for the vibratory motion of the same.

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

Figure 1 is a view of the vertical connecting-rod of the throttle-valve, with a part removed to show a section of the ball-and-socket joint.

In the usual manner of constructing the connecting-rod of the throttle-valve lever the upper end is attached rigidly to the upper sliding rod, in consequence of which it causes, when in operation, considerable friction by the vibratory movement of the rod at the lower end, where it is attached to the lever of the throttle-valve, which has to be frequently adjusted in various ways.

To obviate this friction and strain upon the rod, I construct the ball-and-socket joint A as shown in the drawing, the ball B being attached to the upper end of the small vertical

rod C, the upper end of which passes through the beveled hole in the cup D, this beveled part being formed to allow for the vibratory movement of the rod C caused by the various distances required to be adjusted in the slot of the lever of the throttle-valve, either longitudinally or transversely.

The cup or lower part of the socket A is made to fit into the interior and form part of the same, and is adjustable vertically, and is fastened by the set-screws F F or other device. By these arrangements I do not interfere with any of the attachments or movements of the rods or levers.

The utility of my improvement is that it obviates and relieves any friction or strain caused by the various adjustments of the connection of the rod with the lever of the throttle-valve, and allows a free and delicate movement of the same, in whatever position the end of the rod may be placed by the various adjustments of the lever.

I do not claim as my invention or as new the ball-and-socket joint, or method of attaching.

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

The arrangement of the ball-and-socket joint in the rod of the throttle-valve lever of steam-engine governors, in the manner substantially as herein described, and for the purpose set forth.

C. W. LE COUNT.

Witnesses:

WM. VINE,
A. H. CAMP.