

GEORGE R. MOORE

STEAM TRAP

117099

PATENTED JUL 18 1871

Fig. 1

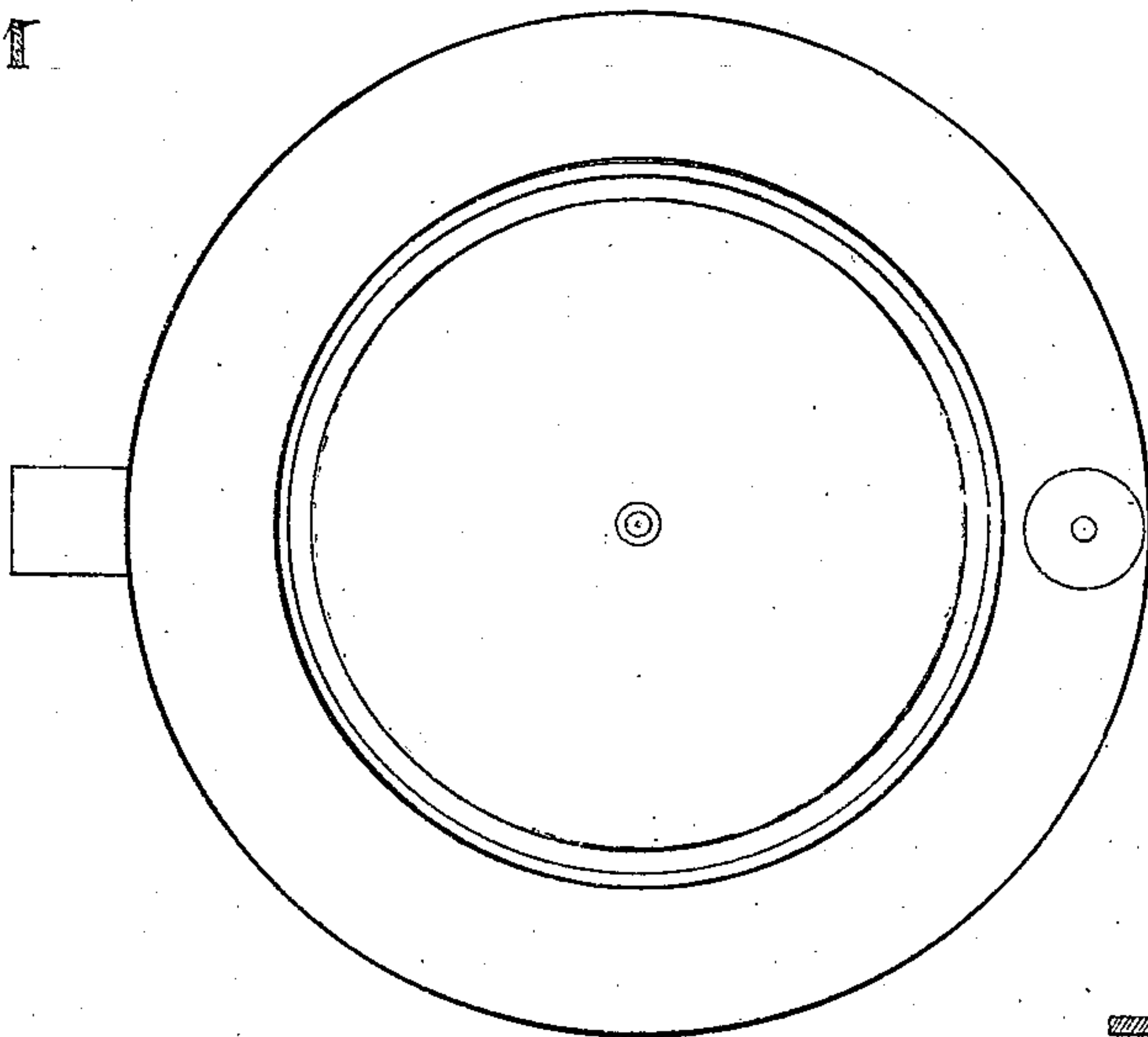


Fig. 5

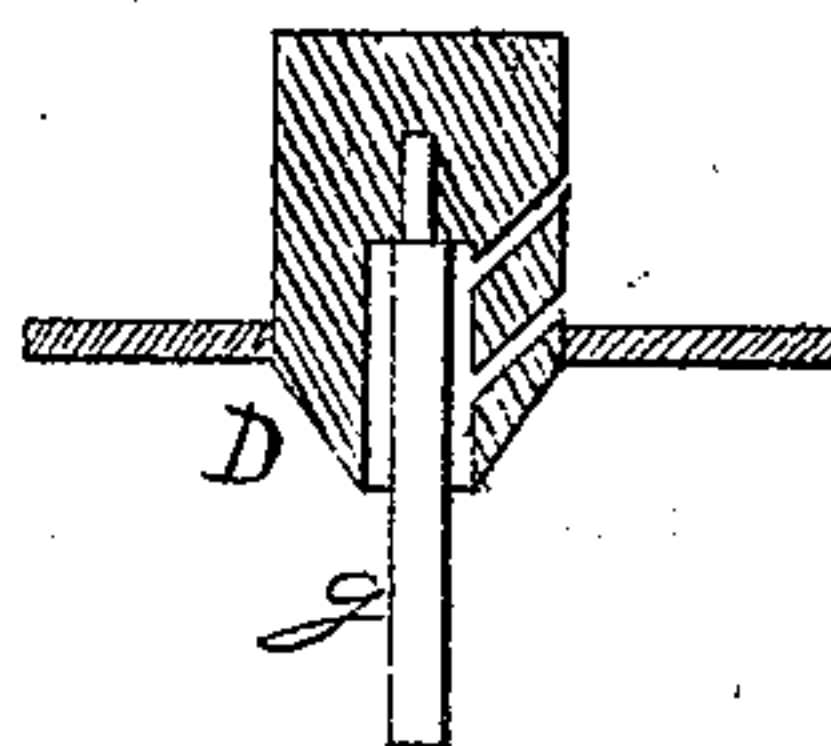
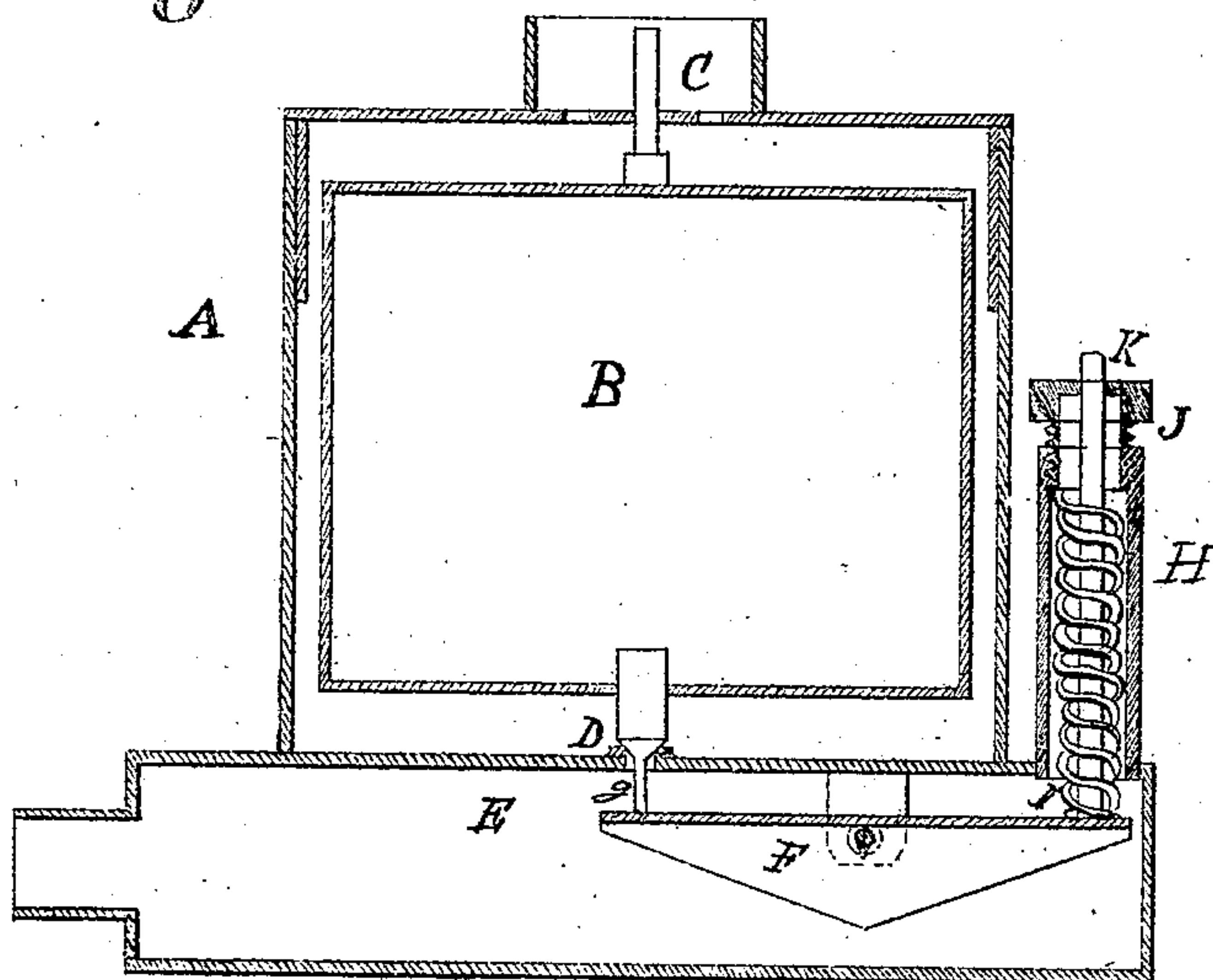


Fig. 2



Witnesses | Thos. G. Wells  
| Henry M. Myers

Geo. R. Moore

# UNITED STATES PATENT OFFICE.

GEORGE R. MOORE, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN STEAM-TRAPS.

Specification forming part of Letters Patent No. 117,099, dated July 18, 1871.

*To all whom it may concern:*

Be it known that I, GEORGE R. MOORE, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain Improvements in Steam-Traps, of which the following is a specification:

The object of my invention is to improve that class of steam-traps in which a float or buoy is used. It relates to balancing, adjusting, and operating the buoy and valve controlling the outlet, and is more fully described in the claim.

Figure 1 is a top view. Fig. 2 is a perpendicular transverse section. Fig. 3 shows the valve upon a larger scale and detached from the buoy.

A is the outside casing; B, the buoy; C, the inlet; D, the valve; E, the outlet and receptacle for the condensed steam after it has passed the trap proper. F is a lever. *g* is a spindle, inserted so loosely into the valve of the buoy that it does not obstruct the circulation of air past it. It conveys the pressure of the lever to the buoy. H is an upright tube containing a spiral spring, I, a graduating-screw at the top, J, and a loose

rod, K, passing down the center of the screw and spring to the lever below. It will be seen that any pressure downward upon either this spring or rod will go thus far, communicating through the lever, to balance or lift the buoy, and that these arrangements afford conveniences for manipulating the trap from the outside. If it is desired to blow out the trap, let the rod K be pressed down and the valve will be thrown wide open. If it is desired to graduate the trap to suit a higher or lower pressure of steam, use the graduating-screw J as may be required.

I claim as my invention—

The float B with valve D and stem *g*, constructed as shown, with lever F, counterbalancing-spring, I adjusting-nut J, and stem K, arranged within their respective cases, substantially as described.

GEO. R. MOORE.

Witnesses:

THOS. DALLAS,  
H. M. BUYANS.