

B. B. HARROP.
Blow-Off Cock.

No. 218,264.

Patented Aug. 5, 1879.

Fig. 1.

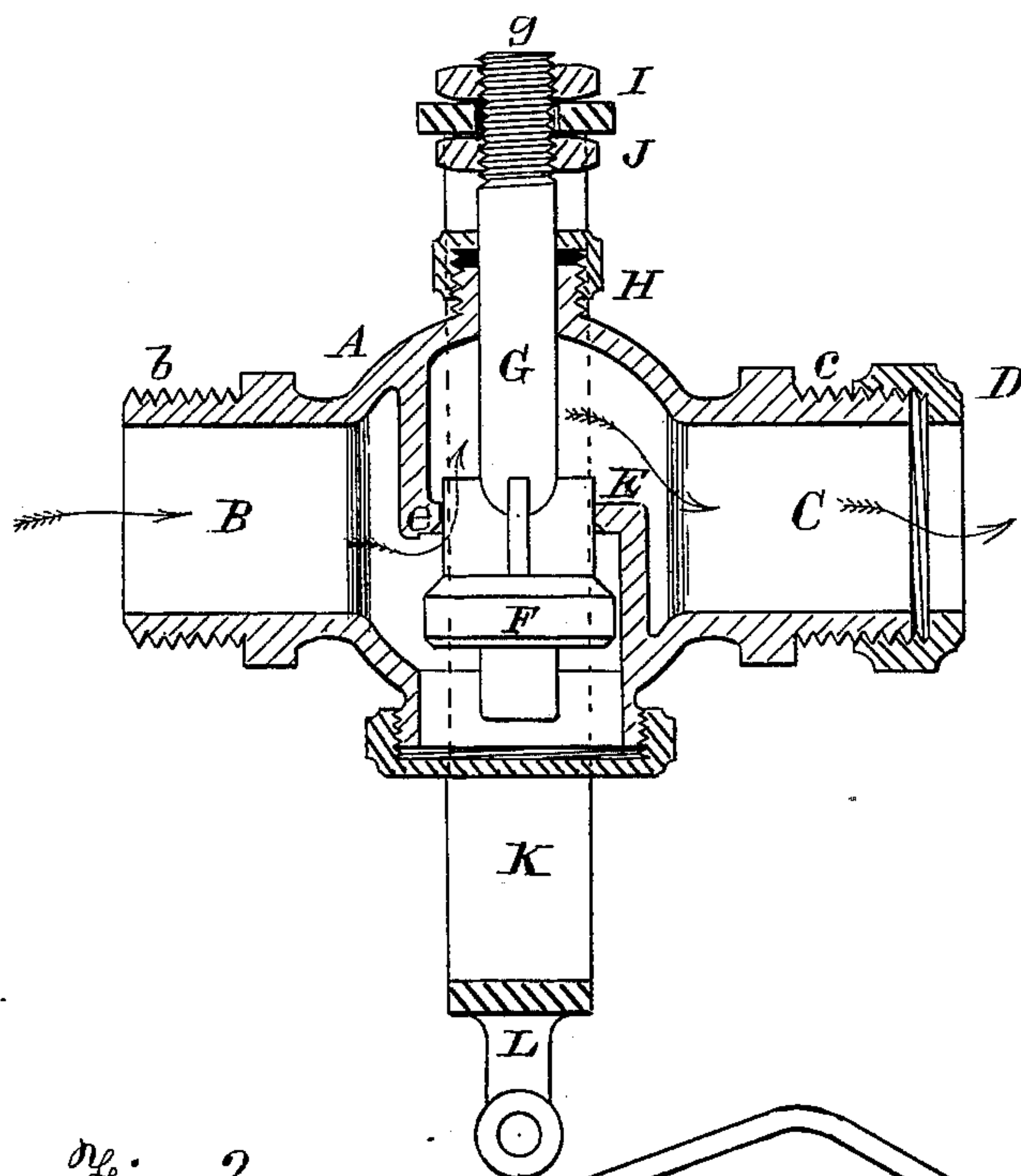
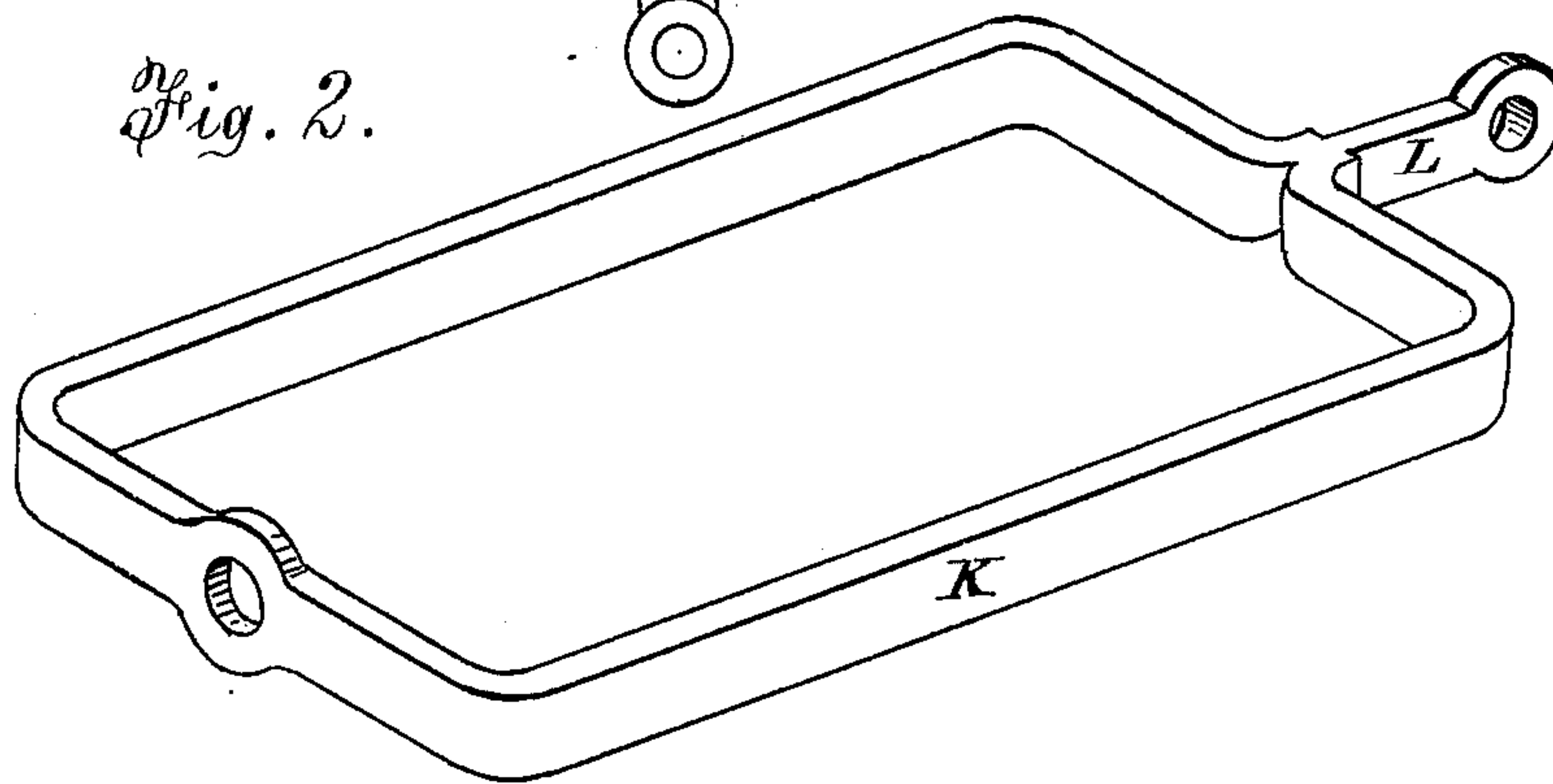


Fig. 2.



Attest
Walter Knight
Ben Hill

Inventor
Benjamin B. Harrop
By Knight Bros.
attys.

UNITED STATES PATENT OFFICE.

BENJAMIN B. HARROP, OF HARRISBURG, TEXAS.

IMPROVEMENT IN BLOW-OFF COCKS.

Specification forming part of Letters Patent No. **218,264**, dated August 5, 1879; application filed May 22, 1879.

To all whom it may concern:

Be it known that I, BENJAMIN B. HARROP, of Harrisburg, Harris county, Texas, have invented a new and useful Improvement in Blow-Off Cocks, of which the following is a specification.

My invention relates to an improved form of blow-off cocks for locomotive and other steam-boilers in which a conical valve is employed, that is kept closed by the pressure of the confined fluid, and is opened by a suitable lever, which is external to the globe or casing of the cock. In my improvement the operating-lever is connected, by means of a suitable yoke or stirrup, with that end of the valve-stem which is external to the casing.

In the accompanying drawings, Figure 1 is an axial section of a cock embodying my invention, the valve being shown open. Fig. 2 is a perspective view of the stirrup.

A represents the globe, shell, or casing; B, its inlet, provided with screw-neck *b*, for attachment to the boiler or cylinder.

C is the outlet, whose screw-neck *c* receives the nut D, for attachment of the discharge-pipe.

A diaphragm, E, is pierced with customary conical seat *e* for valve F, whose stem G passes out through a stuffing-box, H, in the case, and has a screw-threaded extremity, *g*, to receive nuts I J, which fasten it to a yoke or stirrup, K, whose other end terminates in a perforated shank, L, to enable the coupling to it of a customary crank or lever.

I claim as new and of my invention—

A blow-off cock consisting of the shell A B C D E H, valve F G, nuts I J, and the operative yoke or stirrup K, substantially as set forth.

In testimony of which invention I hereunto set my hand.

BENJAMIN BERNARD HARROP.

Attest:

BEN A. HILL,
JAMES ALEXANDER.