

(No Model.)

B. FISHER, Dec'd.

H. WICH, administratrix.

VAPOR BURNER.

No. 282,820.

Patented Aug. 7, 1883.

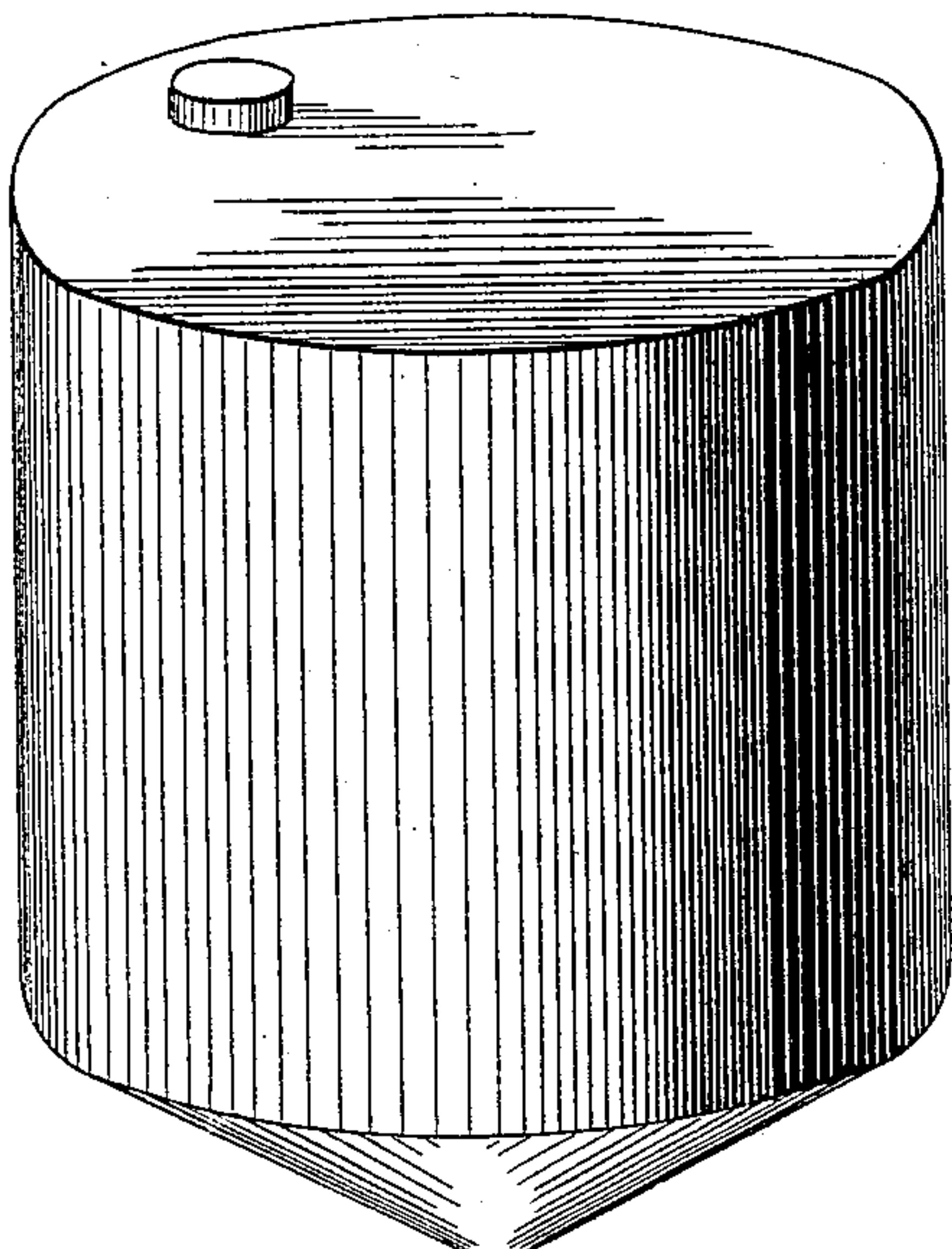


Fig. 1.

Fig. 2.

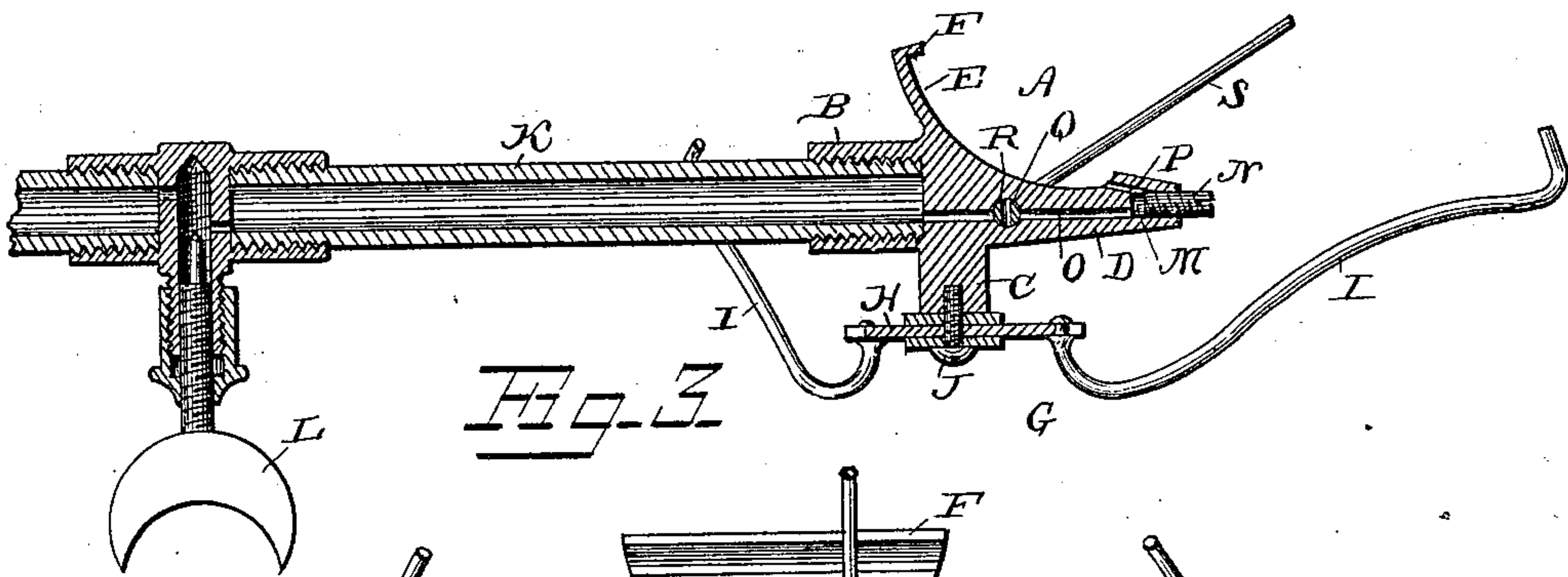
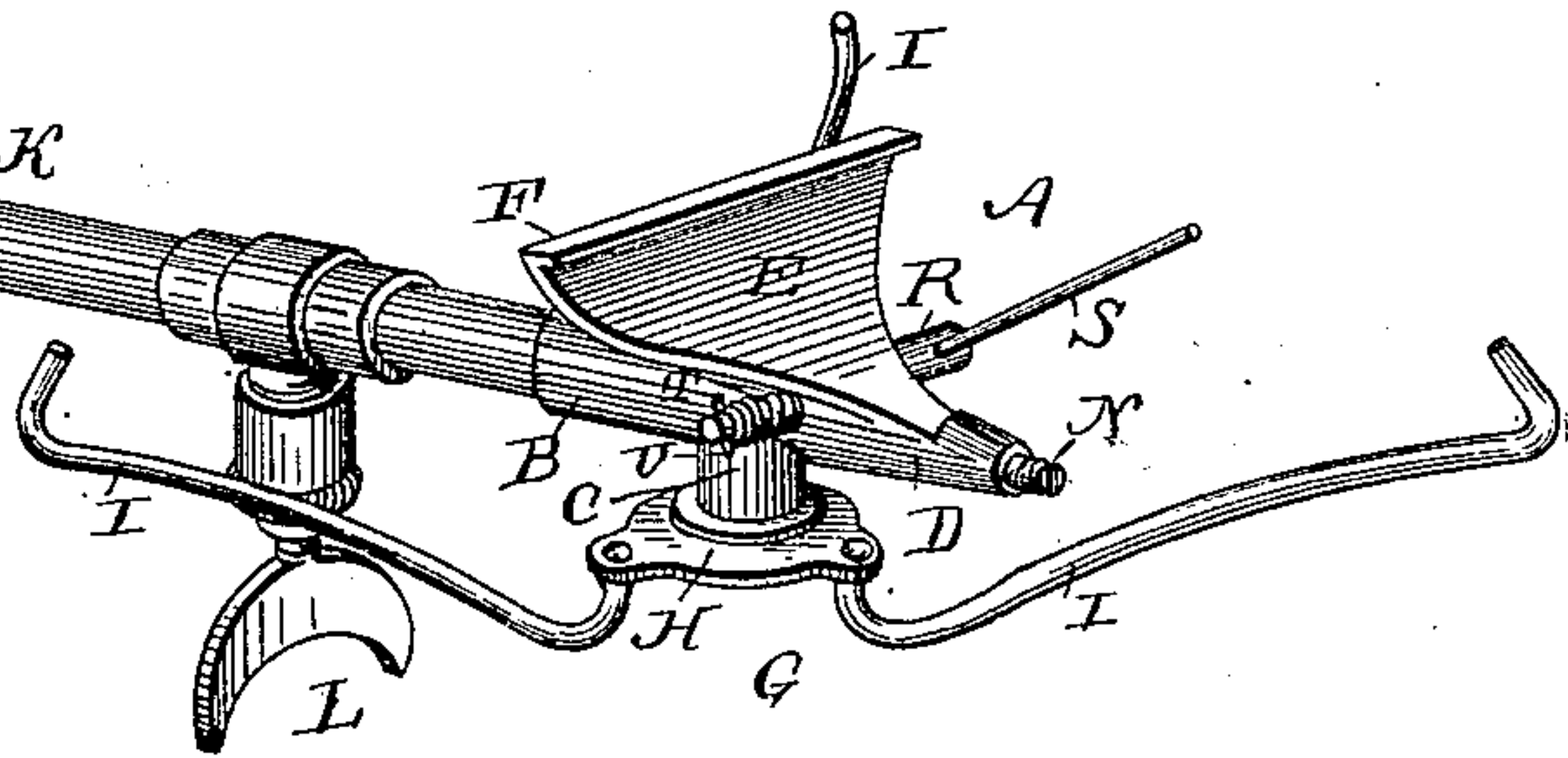
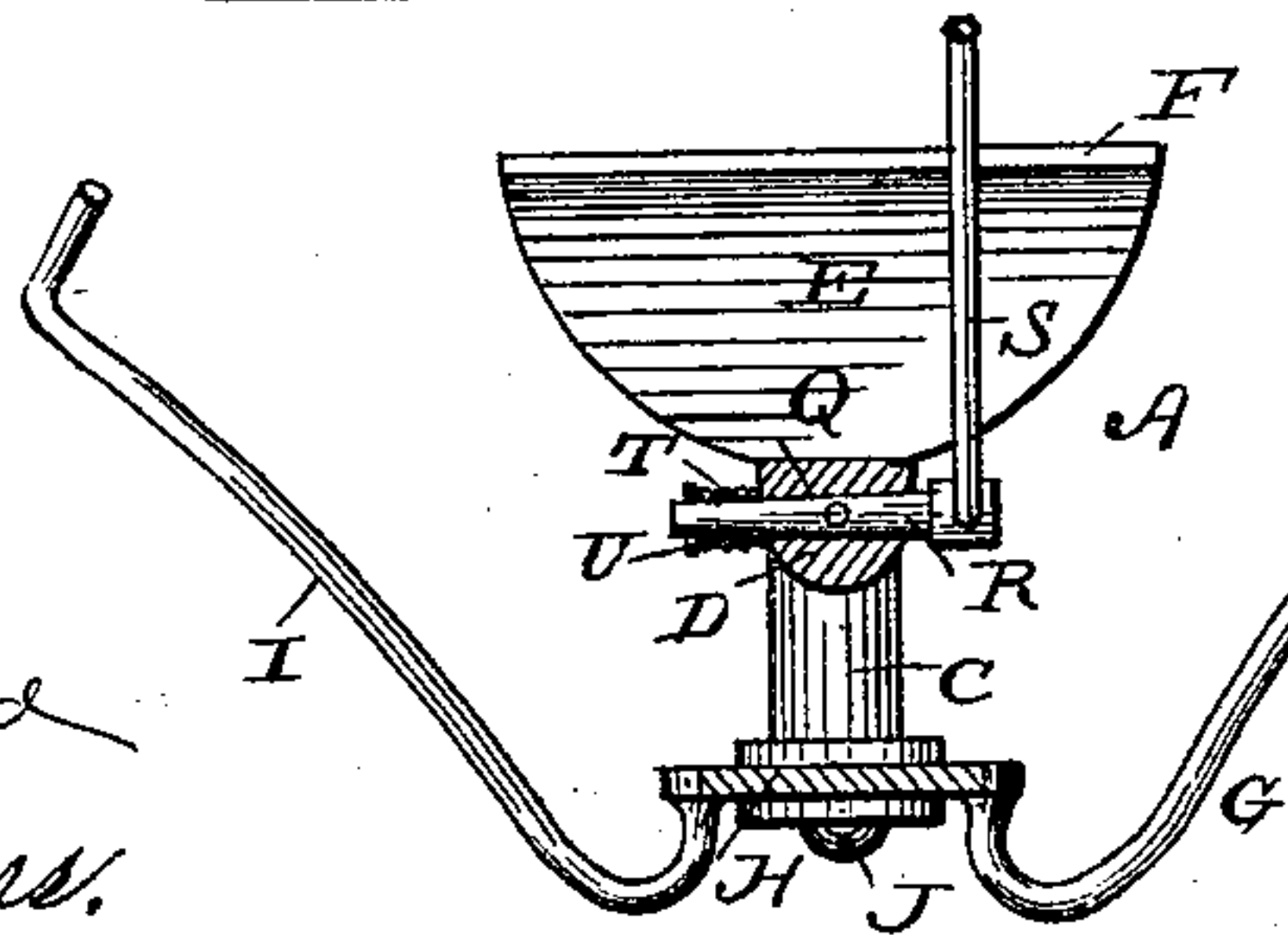


Fig. 3.

WITNESSES
F. L. Ourand
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Bernard Fisher deceased
INVENTOR
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UNITED STATES PATENT OFFICE.

HENRIETTA WICH, OF BALTIMORE, MD., ADMINISTRATRIX OF BERNARD FISHER, DECEASED, ASSIGNOR TO CONRAD WICH, OF SAME PLACE.

VAPOR-BURNER.

SPECIFICATION forming part of Letters Patent No. 282,820, dated August 7, 1883.

Application filed May 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRIETTA WICH, a citizen of the United States, residing at Baltimore, in the county of Baltimore and State of Maryland, administratrix of the estate of BERNARD FISHER, late a citizen of Baltimore, deceased, (as by reference to the duly certified copy of letters of administration hereto annexed will more fully appear,) who invented
10 a new and useful Vapor-Burner, do declare that the following is a specification thereof, reference being had to the accompanying drawings.

This invention relates to vapor-burners; and
15 it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, Figure 1
20 is a perspective view of my improved vapor-burner. Fig. 2 is a longitudinal vertical sectional view of the same, and Fig. 3 is a vertical transverse sectional view taken through the stop-cock by which the flow of vapor is
25 regulated.

The same letters refer to the same parts in all the figures.

A in the drawings designates the body of my improved vapor-burner, which consists of
30 the cylindrical tubular portion B, having a downwardly-projecting stem or shank, C, and a tapering front end, D, from which a triangular-curved shield, E, extends upwardly and rearwardly, as shown, said shield being pro-
35 vided at its upper edge with a flange, F, serving to radiate and spread the flame.

To the lower end of the shank C is secured the globe-holder G, which consists of a central plate, H, having radiating arms I. Said holder
40 may be secured to the shank by means of a single screw, J. The rear end of the cylindrical tubular portion B of the burner is screw-threaded and secured to the feed-pipe K, which supplies oil to the burner from a suitably-located reservoir. The feed-pipe K is provided
45 with a cock, L, whereby the supply of oil may be regulated.

The front end of the tapering portion D of the body of the burner is drilled, so as to form
50 a chamber, M, which is closed by means of a screw-plug, N. A passage, O, drilled through the body of the burner, connects the said chamber M with the cylindrical tubular portion B,

which latter forms the heating chamber or retort. P is a passage leading from the chamber M to the base of the triangular shield E. 55

The tapering portion D of the body of the burner is provided with a transverse perforation; Q, to receive a small stop-cock, R, having a handle, S. A spring, T, is interposed
60 between the body of the burner and a transverse pin, U, at the end of the stop-cock, in order to keep the latter to its seat. It will be seen that by means of the said stop-cock the flow of vapor from the retort to the chamber
65 M may be regulated.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. To light it, it
70 is only necessary to heat the retort sufficiently to generate enough vapor to start the flame when the stop-cock R is opened. The flame will be spread and deflected by the shield E, which forms, practically, the front end of the
75 retort-chamber, thereby keeping the latter sufficiently hot to generate vapor as fast as the oil may be supplied. The flow of vapor from the retort to the chamber M, and hence the size of the flame, may be regulated by the stop-
80 cock R, which renders it possible to control the flame with the precision and accuracy of a gas-jet.

I claim as the invention and desire to secure by Letters Patent of the United States— 85

In a vapor-burner, the described body having the tubular cylindrical portion or retort, the tapering front end having the vapor-chamber, the screw-plug for the latter, the upwardly and rearwardly extending curved shield hav-
90 ing a flange at its upper edge, the channel connecting the retort and vapor-chamber, the opening from the latter to the base of the shield, and the stop-cock controlling the flow of vapor from the retort to the vapor-chamber, substantially as and for the purpose set forth. 95

In testimony that I claim the foregoing as the invention of BERNARD FISHER I have hereto affixed my signature in presence of two witnesses. 100

HENRIETTA WICH,
Administratrix of the estate of Bernard Fisher.

Witnesses:

MURRAY HANSON,
JOS. WINKLER.