

(No Model.)

W. H. BURNHAM & J. H. MILLER.

PUMP.

No. 381,212.

Patented Apr. 17, 1888.

Fig. 1.

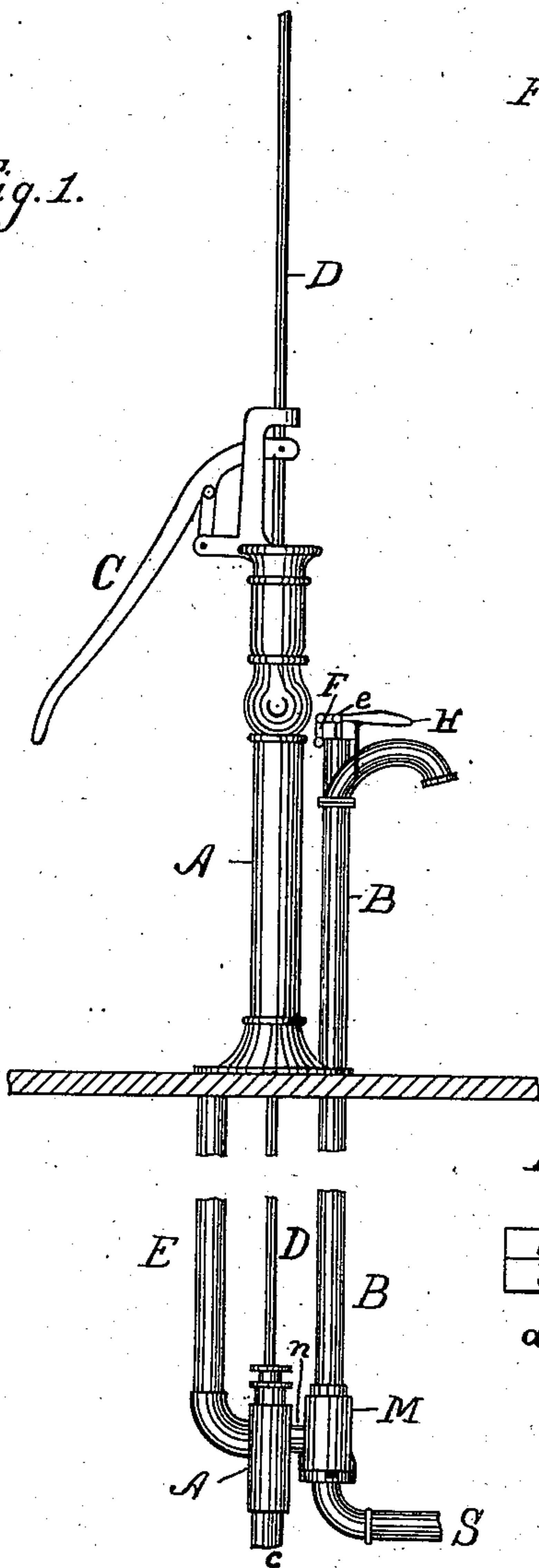


Fig. 2.

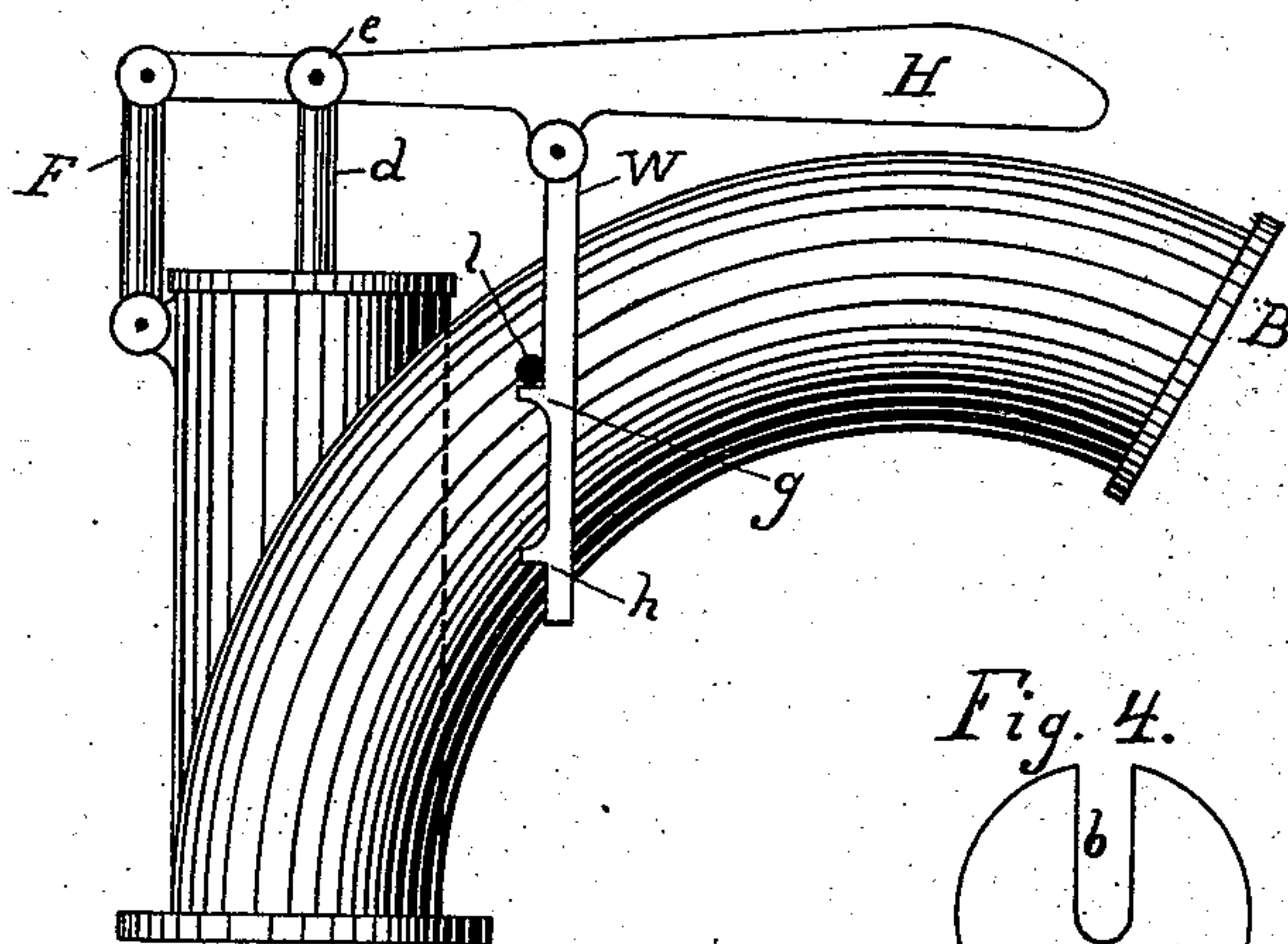


Fig. 3.

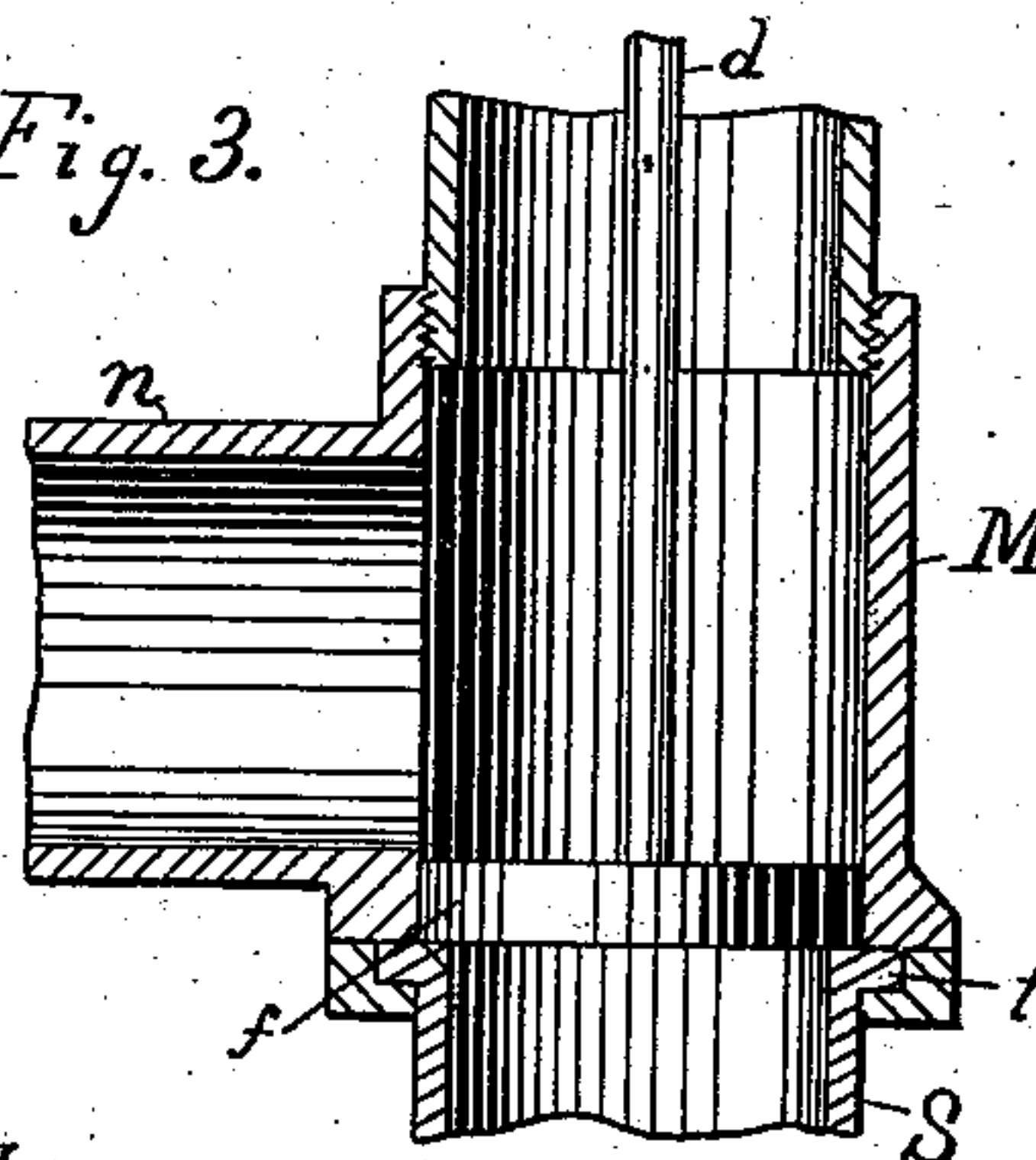


Fig. 4.

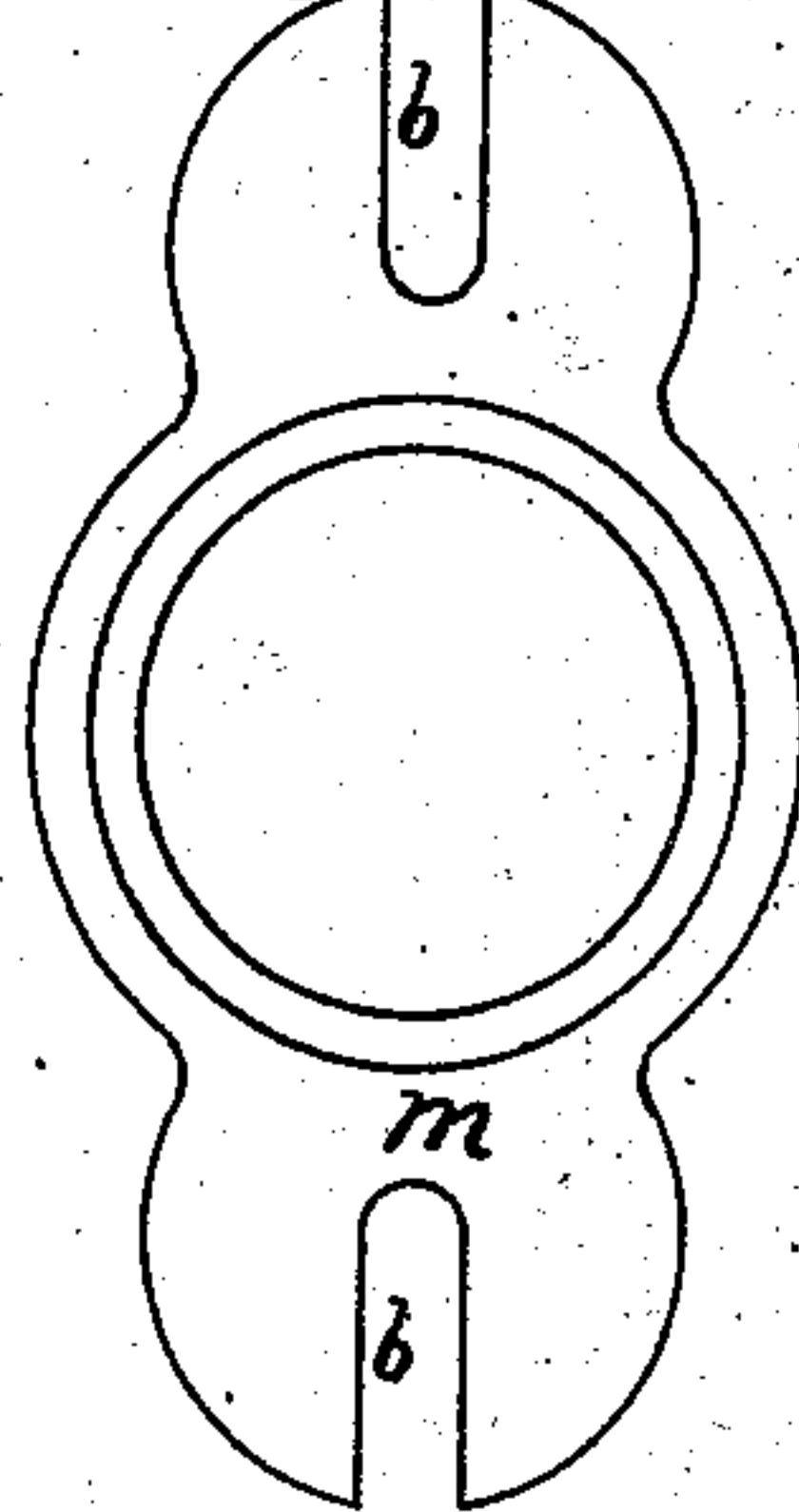
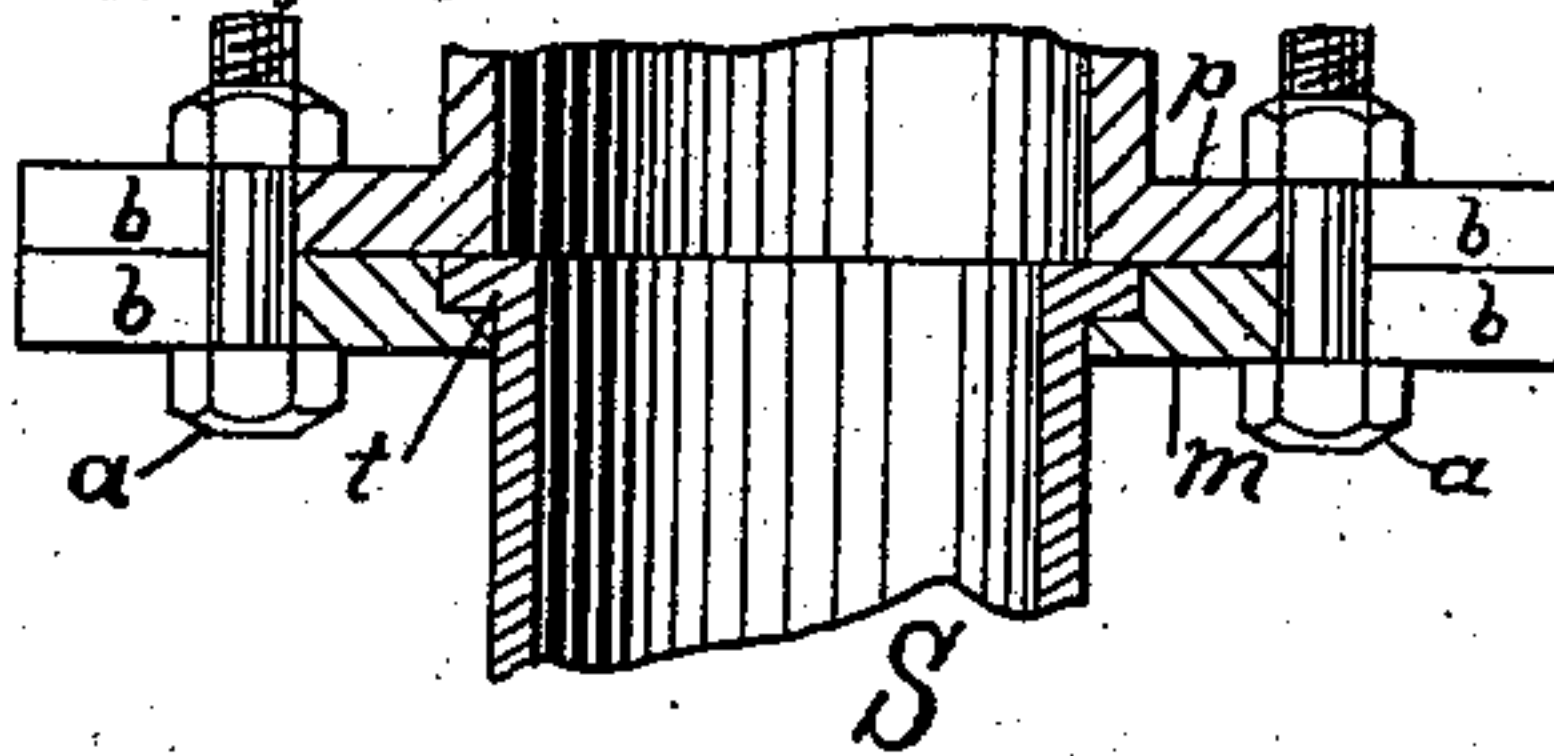


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM H. BURNHAM AND JOHN H. MILLER, OF BATAVIA, ILLINOIS,
ASSIGNORS TO THE UNITED STATES WIND ENGINE AND PUMP COM-
PANY, OF SAME PLACE.

PUMP.

SPECIFICATION forming part of Letters Patent No. 381,212, dated April 17, 1888.

Application filed November 29, 1887. Serial No. 256,382. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. BURNHAM and JOHN H. MILLER, citizens of the United States, and residents of Batavia, in the county of Kane and State of Illinois, have invented new and useful Improvements in Pumps, of which the following is a specification, reference being had to the accompanying drawings, illustrating the invention, in which—

Figure 1 is an elevation of a pump in which is embodied our invention. Fig. 2 is an enlarged elevation of the lock which is employed to hold the valve in position to change the direction of water, also showing a portion of the pump-pipe. Fig. 3 is an enlarged vertical sectional elevation of the valve-chamber and connecting-pipes; Fig. 4, an enlarged plan view of the clutch by which the lower way-pipe is attached; Fig. 5, a broken longitudinal section of the clutch and flanged pipe therein.

This invention relates to an improvement in mechanism for discharging water from a two-way pump; and its nature consists, in brief, in a two-way-valve chamber placed exterior to the pump proper and the valve therein, operated by exterior mechanism, and a discharge-pipe held in position between the valve-chamber and a clamping-cap or clutch-plate, whereby the lower discharge-pipe may project in any desired direction, and the valve *f* may be removed by removing the clutch-plate, as the whole is hereinafter fully described and shown.

A represents the pump, which is of ordinary construction.

C is the handle, pivoted to the pump-rod D, which may be connected with a windmill.

E is the air-pipe. B is the upper discharge-pipe, and S is the lower discharge-pipe.

M is a chamber for the two-way valve.

c is the supply-pipe, and n is the short hori-

zontal pipe connecting it with the valve-chamber M.

d is the rod attached to the valve *f*, and H represents the lever connecting with the rod at *e*. The inner end of the lever is pivoted to a standard, F, whereby by raising and lowering the lever water may pass out through pipe S or B.

Pivoted to the lever H is a double lock, W, which holds the valve *f* up by means of the catch *h* resting on the top of the stop *l* on the upper portion of pipe B, and holds the valve down by means of the catch *g* catching under the stop *l*. The under portion of the valve-chamber M is provided with a seat, *p*, which is the reverse counterpart of the detachable clutch *m*, whereby the pipe S may project in any desired direction and be clamped between the parts *p m*, so as to form a water-tight joint, by means of bolts *a*, which are placed in the slots *b b*. This is a very desirable construction for supporting the pipe S to project, as required, in different directions in contradistinction to securing the pipe S by a screw-thread which, when the pipe is turned, does not form so strong or tight a joint as is necessary.

We claim and desire to secure by Letters Patent—

The lever H, the pump A, discharge-pipe B, provided with the stop *l*, discharge-pipe S, valve *f*, rod *d*, and a lock, W, provided with catches *h g*, in combination with the exterior valve chamber, M, provided with the seat *p*, and the clutch-plate *m*, for securing the discharge-pipe S, so as to project in any desired position, as specified.

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Witnesses:

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