

(No Model.)

C. SCHMIDT.

PUMP STOCK.

No. 263,595.

Patented Aug. 29, 1882.

Fig. 1.

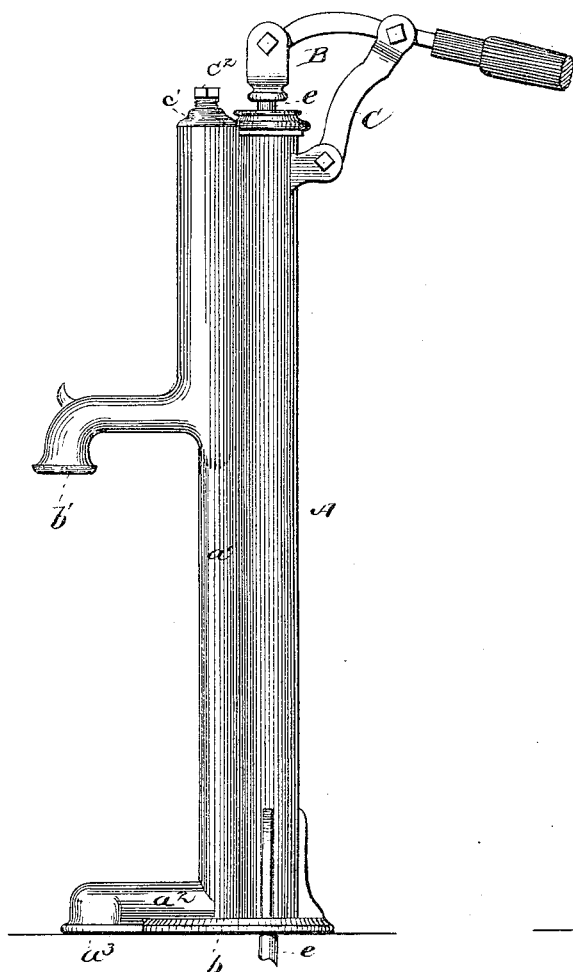
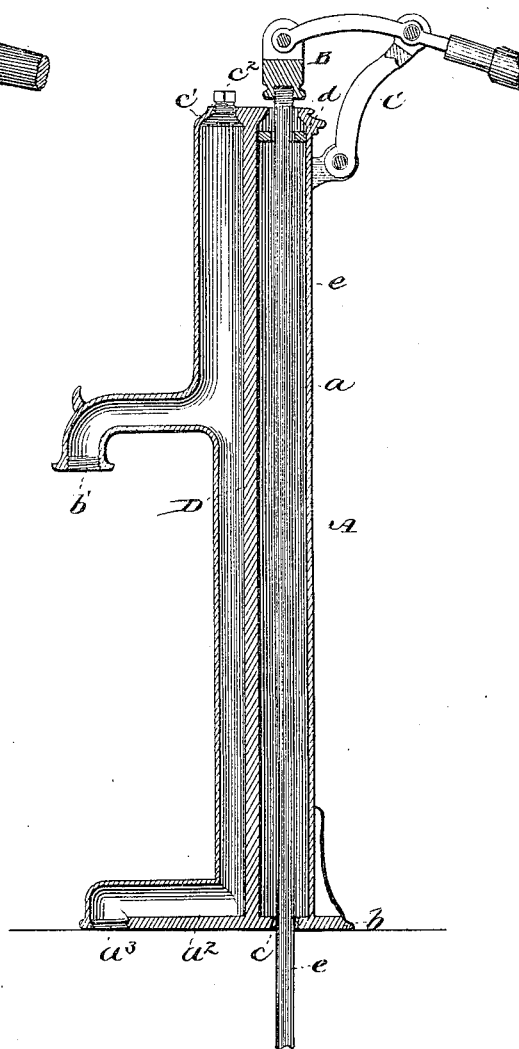


Fig. 2.



WITNESSES:

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CHRISTIAN SCHMIDT, OF MIAMISBURG, OHIO, ASSIGNOR OF ONE-HALF TO
FERDINAND SWARTZTRAUBER, OF SAME PLACE.

PUMP-STOCK.

SPECIFICATION forming part of Letters Patent No. 263,595, dated August 29, 1882.

Application filed April 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN SCHMIDT, of Miamisburg, in the county of Montgomery and State of Ohio, have invented certain new and
5 useful Improvements in Pump-Stocks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to
10 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side elevation of my improved pump-stock, and Fig. 2 is a vertical transverse
15 section of the same.

Similar letters of reference indicate corresponding parts in the figures.

My invention appertains to force-pumps; and it consists in the detailed construction, as
20 hereinafter described, of a pump-stock which, while it is applicable to force-pumps of different kinds and classes, is especially designed to be used as a part of and in combination with the force-pump for which Letters Patent of
25 the United States No. 205,688 were granted to me on the 2d day of July, 1878.

In the accompanying drawings, the letter A represents the shell or casing of my improved pump-stock. It is made of cast-iron by a single casting and in one piece, and is composed
30 of a cylinder, *a*, of even diameter throughout, which abuts at its lower end or bottom against the base-piece *b*, which has a slot, *c*, for the insertion of the piston or plunger rod. At the
35 top of cylinder *a* is inserted a bushing, *d*, with a central aperture for the play of the pitman or sucker-rod *e*. The latter is connected at its upper end to the handle B, which is fulcrumed in an arm, C, that is pivoted or hinged at its
40 lower end in the stock-shell A, so as to permit (by the vibrations of the arm C) of a true up-and-down motion of the piston or plunger rod.

Cast in one piece, with and forming an integral part of the cylinder *a* is a secondary cylinder, *a'*, which abuts at its lower end against
45 the base-piece *b*, and is cast with a bent part or elbow, *a²*, the mouth *a³* of which is screw-threaded for the insertion of the upper end of the discharge-pipe of the pump, which is sub-

merged in the well or cistern below the pump-stock. In other words, this secondary cylinder *a'* forms, so to speak, a continuation of the discharge-pipe, and is as such provided with a discharge-nozzle, *b'*, above which cylinder *a'* bulges out, so as to form an air-chamber, *c'*, of
55 the same diameter as the main barrel *a*. This air-chamber *c'*, it will be seen, is cast in one piece with the barrel *a*, and is divided or separated therefrom by the longitudinal wall or diaphragm D, which extends from the base-
60 piece *b* up to the top of the casting. The air-chamber *c'* is contracted at its upper end, where it has an aperture or opening cored by a screw-plug *c²*. The air-chamber *c'*, from the nozzle or outlet *b'* up to the stopper *c²*, is
65 throughout of the same diameter as the adjacent barrel *a*, of which it forms an integral part.

By the foregoing description, taken in connection with the drawings, it will be seen that
70 I cast the several parts of my improved pump-stock in one single piece. In other words, while the parts *a*, *a'*, and *c'* fulfill the requirements of different purposes, (which I am well aware are old in different combinations and constructions,) they yet form integral parts of the main
75 structure A. Hence

What I claim as my improvement, and desire to secure by Letters Patent of the United States, is—

As an article of manufacture, the pump-stock A, having the longitudinal diaphragm D, whereby the main barrel *a* is formed, and adjacent thereto the auxiliary barrel or discharge-pipe *a'*, having the elbow *a²*, nozzle or
85 discharge *b'*, enlarged air-chamber *c'*, provided at its contracted upper end with the plug or stopper *c²*, and slotted base-piece, all cast in one piece, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have herenunto affixed my signature in
90 presence of witnesses.

CHRISTIAN SCHMIDT.

Witnesses:

LOUIS BAGGER,
J. F. REILY,
FERDINAND SWARTZTRAUBER.