No. 753,507. PATENTED MAR. 1, 1904.

A. J. MIKSCH.

PUMP.

APPLICATION FILED NOV. 27, 1903.

NO MODEL.

Fig. 1.

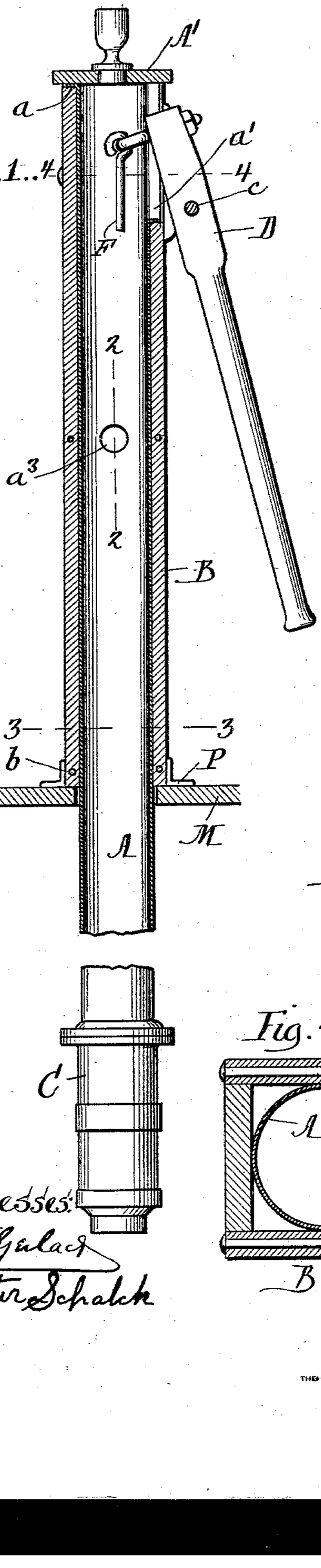


Fig. 2.

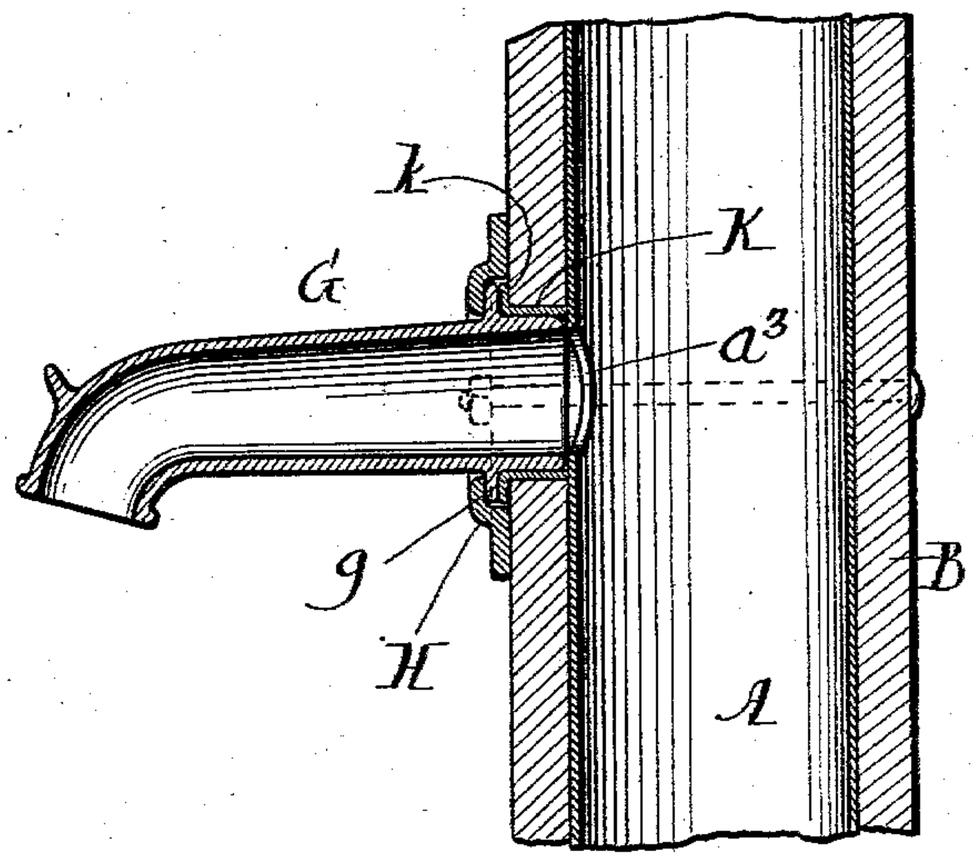


Fig. 3.

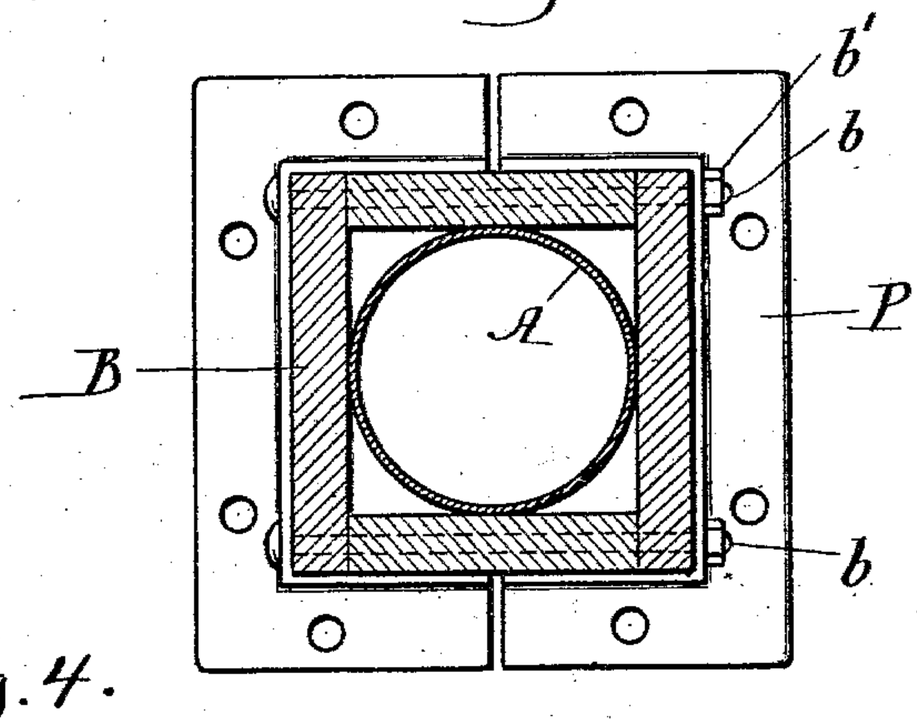
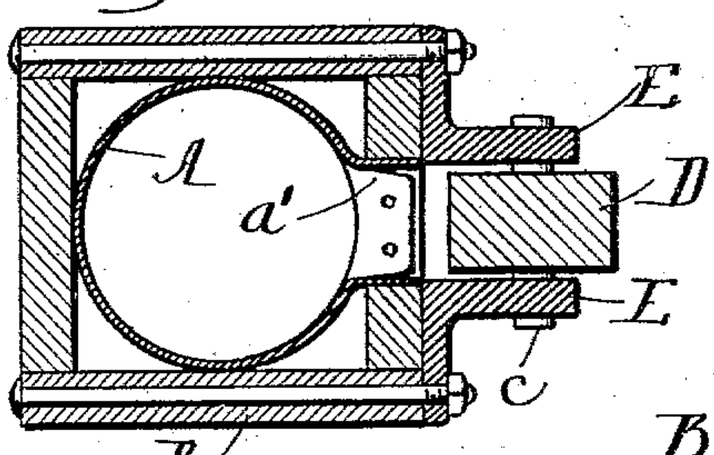


Fig. 4.



Witnesses:
Fred Galack
Walter Schalck

Inventor:
Aaron J. Miksch
By Peirce & Fisher
his Attorneys.

No. 753,507. Patented March 1, 1904.

UNITED STATES PATENT OFFICE.

AARON J. MIKSCH, OF CHICAGO, ILLINOIS.

PUMP.

SPECIFICATION forming part of Letters Patent No. 753,507, dated March 1, 1904.

Application filed November 27, 1903. Serial No. 182,815 (No model.)

To all whom it may concern:

Be it known that I, AARON J. MIKSCH, a citizen of the United States, residing at Chicago, Illinois, have invented certain new and useful Improvements in Pumps, of which I do declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a view in central vertical section through a pump embodying my invention. Fig. 2 is a large detail view, in vertical section, through that part of the pump adjacent the spout and through the spout. Fig. 3 is a view in cross-section on line 3 3 of Fig. 1. Fig. 4 is a view in cross-section on line 4 4 of Fig. 1.

The present invention is more particularly designed to provide a simple, cheap, durable, and effective construction of pump adapted to take the place more particularly of a familiar form of wooden pump the stock of which has heretofore been made from a single block of wood bored from end to end. For many reasons wooden pump-stocks are advantageous and popular; but the increased cost within late years of material of sufficient thickness to form solid pump-stocks has greatly increased the price of such pumps.

By my present invention I provide a pump affording many of the advantages of the familiar wooden pump as well as other advantages that will be readily recognized by those conversant with this class of articles.

A designates the inner cylindrical wall of the pump. This wall A is preferably made of galvanized steel and extends from the top of the pump stock or casing B to the usual cylinder C, that is adapted to extend below the water-line of the well.

By reference more particularly to Figs. 3 and 4 of the drawings it will be seen that the stock or body B of the pump is formed of four pieces of lumber, preferably about an inch in thickness, that are securely united together, as by threaded through-bolts *b*, that are fitted with nuts *b'*. The stock or body B of the pump snugly incases the pump-wall and bears against the outer periphery thereof at diametrically opposite points. Preferably the upper end of the pump-wall A is formed with an overturned flange *a*, that sets down upon the top of the stock or body B, (see Fig. 1,) and over the upper end of the pump wall and stock will be set a cap-plate A'. The upper part of the wall of the pump is provided with a slot to receive the pump-handle D, that is pivoted, as at *c*, to brackets E, bolted to the pump-stock at each side of the handle, and, as shown, the slot formed in the upper end of the pump-wall A is provided with an outwardly-turned flange *a'*, that passes through a slot formed in the adjacent wall of the pump stock or body B and guards the stock at such point from being chafed or worn by the operation of the pump-handle. The upper end of the pump-handle D will be connected in any convenient manner with the piston-rod F, that extends downward through the wall of the pump to the cylinder C.

In the pump-wall A is formed an opening a^3, at which will be secured the spout G, this spout being preferably of cast-iron and being formed with an annular flange *g*, that is encircled by an annular guard-plate H, that will be securely bolted to the pump stock or body B. The inner end of the spout G bears against the pump-wall B around the discharge-opening a^3, and preferably the inner end of the spout G is encircled by a sleeve K, that will be soldered or otherwise secured to the pump-wall A. If desired, a flange may be formed upon the inner end of the sleeve K, and a flange *k* is preferably formed upon the outer end of the sleeve K, this flange *k* affording a bearing for the annular flange *g* of the spout and serving to prevent the chafing of the wood by such flange.

The lower end of the pump stock or body B is preferably connected to the curb M by means of angular brackets P, that set around a base of the pump stock or body B and are securely united thereto by the through-bolts *b*. (See Fig. 3.)

A pump embodying my present invention will be found not only cheap and durable, but to have a capacity far exceeding that of ordinary iron pumps and to possess the advantages of ease of operation and repairs characteristic of the familiar wooden pumps. Inasmuch as

the wooden stock or body is protected from the water, the danger of checking, splitting, or rotting of the wood, even if a comparatively poor quality be employed, is avoided.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pump of the character described comprising a metal wall, a stock or body formed of vertical wooden sections united together and surrounding said wall, said wall being perforated at the pump-spout and a spout and handle secured to said stock or body.

2. A pump of the character described comprising a metal wall, a stock or body formed of vertical wooden sections secured together and inclosing said wall, said wall being provided at its upper end with a flange extending over the top of said stock or body and being formed with a flanged slot to admit the pump-handle.

3. A pump of the character described comprising a metal wall having an opening therein for the discharge of water, a stock or body formed of vertical wooden sections inclosing said wall, a sleeve passing through said stock or body at said discharge-opening of the metal wall and a spout having its inner end set within said sleeve, said spout being secured to the wooden stock or body.

AARON J. MIKSCH.

Witnesses:
JAMES H. PEIRCE,
ALBERTA ADAMICK.