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BOYERS, PA

July 2, 1836 9898X 101

Walter J. Spalding.

The Schedule referred to in these Letters Patent, and making part of the same containing a description of the mode of the said Walter J. Walker's improved of his improvement in the Apparatus for drawing Water.

To all to whom these presents shall come, Be it known, That I Walter J. Walker of the City & County of Baltimore & State of Maryland, have invented a new improvement in the Apparatus for drawing water which Apparatus I have already petitioned under date of the twenty sixth of November in the year eighteen hundred and thirty four, and that the following is a full and exact description of the construction & operation of the said improvement or invention reference being had to the annexed drawings forming part of this specification. The said apparatus consists of an iron case which will occasionally be sunk under the water to be raised from the required position. It is also used for the purpose of maintaining the distance between the upper and lower ends of the works, but they should be distinctly set apart in other circumstances. The ascending tube forms the hydraulic part through which the water is discharged, it is usually supported by means of a cast iron log, according to any of the modes of construction. But I have adopted a cast iron case, with openings in one or more of its sides, or the base may be bottom, for the purpose of approaching the water at the lower end, through which may be required to be raised. Two for supporting the valve seat or cock. The frame or shaft described in my former patent, and passing down from the top of the Apparatus to the valve seat, has a screw cut on part and which passing into or through a nut or collar or the covering apparatus to the upper end of the cast iron case, and containing the spring and valve at which, or cock, I screw the waste cock, which shall open within the opening in the cast iron case under ground and cut off the water according to my former plan. When I use the casing of some simple substance, as the cock and the valve seat, I generally prefer that the former should be fixed to the apparatus, or the fixing cock, by a flanching or projection to the body or top of the cock. When I use the metal cock as one or both of the valves I make the spring & the nut & screw at the cast iron case, I make the discharging pipe of

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the cock to turn upwards within the body of the cock, and form it into a tube
and, so as to receive the upper end of the ascending pipe to which I attach
his or more nozzles for the discharging of the water, so as to enable to
attach his or more hose to the same plug, or for the purpose of having a
convenient mode of attachment at or near the surface of the ground
I also contrive in this case to increase the head of water, and remove the
possibility of obstruction of the flow of water, from a bend or traverse that
might otherwise be in the hose when elevated. To the other end of
the cock I form a tube and unite it to the upright pipe by a
circular pipe intended for the purpose of securing the proper of the case, and
the discharging pipe; so as to discharge the water in the same direction as
hereinbefore stated. I use the conducting joint for connecting the pipes, as
in my old plan, for the purpose of affording a ready means of detaching
them from the cock or valve seat. To prevent at all times the same
distance between the upper and lower ends of the works, to prevent dis-
location by frost or other circumstances, as before stated, the cock or valve
seat, is placed in the opening in the lower end of the iron case, and the
seat plate, or covering in which the shear or shaft works, which is made
for dividing the valve, I likewise claim as forming the plug of
the cock, has a square cut in it, to receive the end or the upper end
of the shear, when the cover is attached. What I claim as my inven-
tion and for which I pray a patent, is the construction and
use of a cast iron case for the purpose of maintaining the distance
between either with or without the Archimedian leg, with the iron case
for protecting the other works of the apparatus, and the plugs for com-
municating. But when it is made cylindrical or covering, it is plain around the
other works without the connection for maintaining the distance. Also
the conducting sleeve of the cock by means of screw bolts and nuts, in addi-
tion to cutting and tightening the works. I likewise claim adding nozzles or
mouthpieces to the discharging pipes for the purpose before mentioned,
in connecting the plug. Also for the manner of using a circular
pipe to the plug for receiving the nozzles or pipes of the discharging
pipes as case.

Sworn at Westminster
the 21st day of September
in the year of our Lord 1838
before me

William Shepherd

[558 words

No. 9898.

Patent 21st July 1838