(No Model.)

S. A. BROWNSWORTH.

STRAINER FOR PUMPS.

No. 590,053. Patented Sept. 14, 1897.

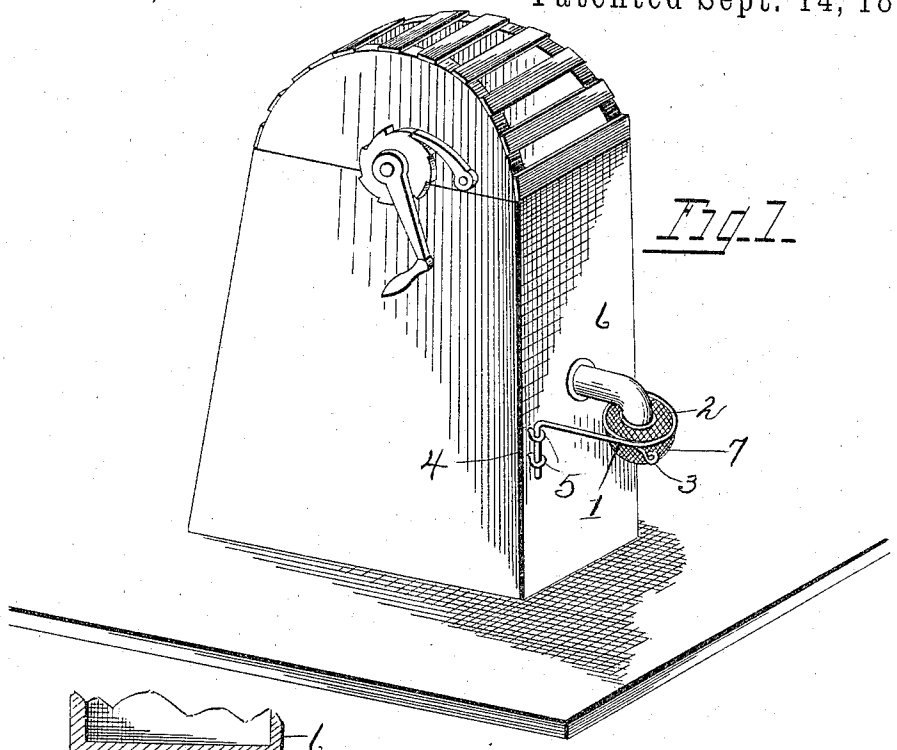


Fig. 1.

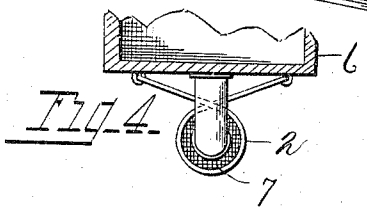


Fig. 4.

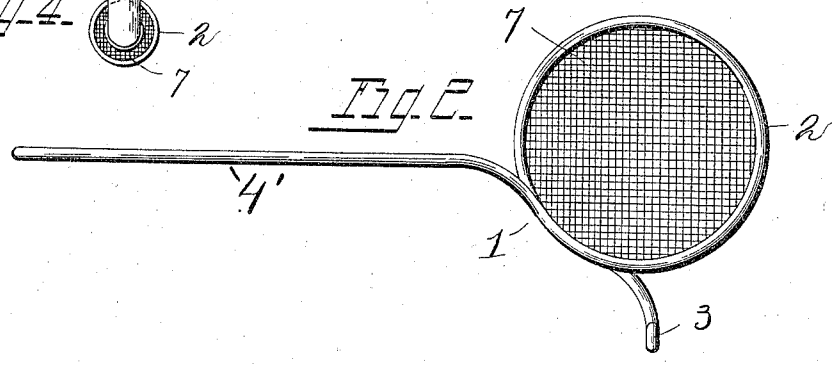


Fig. 2.

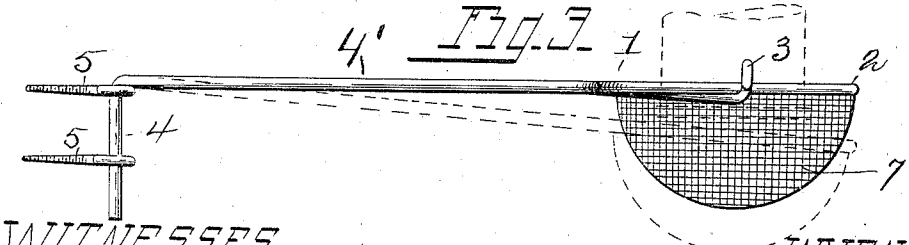


Fig. 3.

WITNESSES

Carroll J. Webster

Maud Schumacher.

INVENTOR.

Stephen A. Brownsworth

By William Webster

Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

STEPHEN A. BROWNSWORTH, OF TOLEDO, OHIO, ASSIGNOR OF ONE-HALF TO SOLOMON H. CALISCH, OF SAME PLACE.

STRAINER FOR PUMPS.

SPECIFICATION forming part of Letters Patent No. 590,053, dated September 14, 1897.

Application filed October 28, 1896. Serial No. 610,273. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN A. BROWNSWORTH, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Strainers for Pumps; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to a strainer for pumps, and has for its object to provide a device removably attached to a pump, whereby the water passing through the spout is strained, the strainer being easily removable from the pump when it is necessary to clean the strainer, due to an accumulation of extraneous matter therein.

The invention therefore consists in a frame carrying a screen, the frame being removably attached to the pump, whereby the screen is normally suspended beneath the spout, but can be removed for cleaning.

The invention further consists in the parts, as hereinafter shown, described, and claimed.

In the drawings, Figure 1 is a perspective view of a pump, illustrating my improved strainer as applied thereto. Fig. 2 is a plan view of the strainer. Fig. 3 is a side elevation illustrating the strainer suspended in normal position beneath the spout in full lines and in dotted lines in a position to be swung beneath the spout in order that the strainer may be removed from the pump for cleaning. Fig. 4 is a plan view of a modification of the strainer.

1 designates the body of the strainer, preferably formed of wire looped, as at 2, one end of the wire being bent outwardly from the loop, as at 3, to form the handle, the opposite end of the wire extending outwardly for some distance, as at 4′, and bent at right angles thereto, as at 4, to pass into eyes or staples 5, secured to the pump-body 6, by which means the strainer-body is suspended to the pump. Secured to the loop and depending therefrom is a net or screen 7. The body 1 of the strainer is of a length, when the end 4 is secured within the eyes or staples 5, to suspend the strainer beneath the spout, whereby the water passing therefrom must necessarily pass through the strainer, with the consequence that all extraneous matter is caught and prevented from passing into the receptacle into which the water is pumped.

In order to prevent the screen from revolving from beneath the spout, the body is secured to the pump at a point slightly above the lower edge of the spout, the resiliency of the body 1 being sufficient, so that the operator by grasping the handle 3 can force the loop downward by bending the body so that the loop embraces the lower end of the spout.

In Fig. 4 is shown a modification which consists in a loop formed by the ends of the wire being bent downwardly to form two connections with the pump, the operation being the same.

To clean the screen, it is only necessary that the screen be disengaged from the spout and the body lifted from engagement with the eyes or staples, when the screen can be overturned and the matter caught thereby emptied.

It will be understood that other means may be employed to suspend the screen beneath the spout, and I do not wish to be confined to the exact construction herein shown and described, but may widely depart therefrom, the broad nature of my invention consisting in a screen and means for suspending the screen beneath the spout.

What I claim is—

In a strainer for pumps, a pump having a spout, eyes or staples secured thereto, a resilient wire strand bent to form a loop, one end 3 of the strand extending outwardly therefrom to form a handle, the opposite end 4′ of the strand extending outwardly therefrom for some distance and bent downwardly at right angles to engage in the eyes or staples upon the pump, to suspend the strainer beneath the pump-spout, the resiliency of the end 4′ allowing the loop to engage the spout when the strainer is in operation and to lower beneath the same when it is desired to revolve and remove the same.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

STEPHEN A. BROWNSWORTH.

Witnesses:
WILLIAM WEBSTER,
MAUD SCHUMACHER.