

(No Model.)

G. GAUNTZ.
STRAINER FOR PUMP SPOUTS.

No. 514,924.

Patented Feb. 20, 1894.

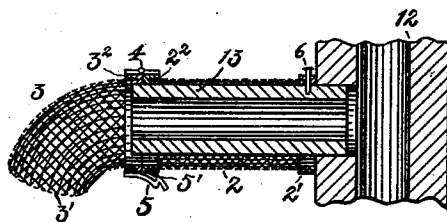
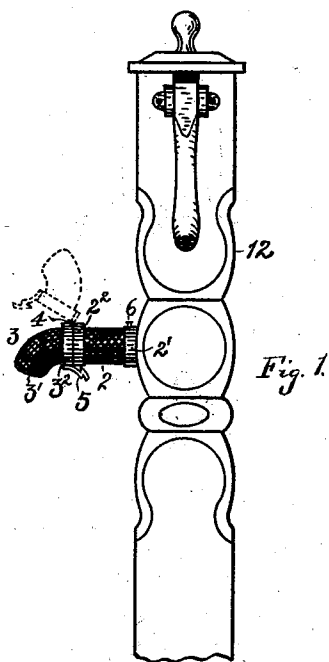


Fig. 2.

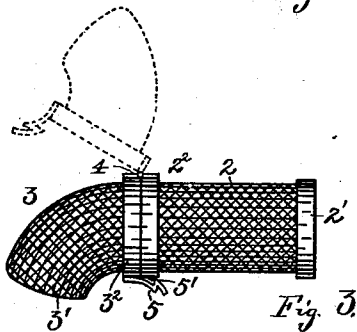


Fig. 3.

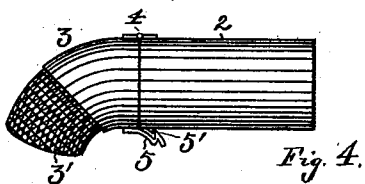


Fig. 4.

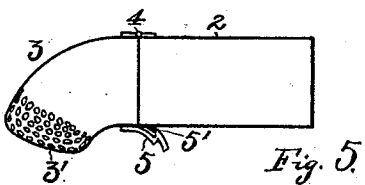


Fig. 5.

WITNESSES:

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STRAINER FOR PUMP-SPOUTS.

SPECIFICATION forming part of Letters Patent No. 514,924, dated February 20, 1894.

Application filed March 23, 1893. Serial No. 467,252. (No model.)

To all whom it may concern:

Be it known that I, GEORGE GAUNTZ, a citizen of the United States, residing at Greenfield, in the county of Highlands and State of Ohio, have invented certain new and useful Improvements in Strainers for Pump-Spouts, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved strainer or filter adapted to be attached to a pump-spout, and its object is to produce a strainer which will be always in place, effective in operation, and very easily cleaned.

The novelty of the invention will be hereinafter fully set forth and specifically pointed out in the claims.

In the accompanying drawings Figure 1 is a side elevation of a pump provided with my improvements. Fig. 2 is an enlarged detail view, showing a central vertical section of a pump-spout provided with my improvements, and a broken portion of the pump-stock. Fig. 3 is a side elevation of the pump-spout attachment, and Figs. 4 and 5 show modified forms of the same.

In the drawings the numeral 12 represents the pump, which has a spout 13. The strainer-attachment forms a muzzle for the spout and is preferably composed of two members 2 and 3. The member 2 is composed of a sleeve or hollow cylinder preferably made of wire cloth or other rigid material and adapted to fit around the pump-spout, and this cylinder, when made of wire cloth, is provided at its ends with strengthening bands 2' and 2". Member 2 may be secured to spout 13 in any convenient way, and in Figs. 1 and 2 a securing pin 6 is shown.

In Figs. 4 and 5 the member 2 is represented as an unbroken hollow cylinder made of tin or sheet metal. The member 3, which comprises or contains the strainer or filter proper, marked 3', is open only at its inner end and is preferably made of wire cloth as represented in Figs. 1, 2, and 3, and provided with strengthening band 3" at its inner end; but a portion of member 3 may be made solid, as represented in Fig. 4, and the wire cloth may be dispensed with and the strainer 3' formed by perforating or puncturing the metal as

shown clearly in Fig. 5, without departing from my invention. Members 2 and 3 are connected by a hinge 4, and member 3 is secured in position by a latch 5, which engages a catch 5'. With this construction it is obvious that water which passes through spout 13 must also pass through strainer or filter 3', and all animal life, such as leeches, worms, reptiles, &c., and also all mineral and other extraneous matter, as well as lees, dregs, and sedimentary deposits, and even feculent matter, will be retained in strainer or filter 3', the meshes or perforations of which may be made to any degree of fineness required, while the water itself will pass therethrough. When it becomes necessary to clean out strainer 3', which should be done frequently, it is only necessary to release latch 5 and swing member 3 about its hinge or pivotal point to the position shown in dotted lines in Figs. 1 and 3, and then throw a quantity of water upon the strainer, and the water in passing through the meshes or perforations will carry away with it all deposits and accumulations collected therein, as will be readily understood. The member 3 is then returned to its first position and its latch secured to catch 5', whereupon everything will again be ready for operation.

Several important advantages are obtained by making the strainer-portion of wire cloth or other rigid material instead of using a bag made of cloth or fibrous material, as has commonly been done. The latter, when used, soon becomes stained and partly decayed, and can be removed from the spout and cleaned only with considerable difficulty, and as a result it is generally allowed to remain in position and do service until it becomes well filled with slime and accumulated filth. The water adheres to the porous fabric and freezes thereto in the winter time, thus rendering the filter useless. By using the wire cloth these objectionable features are overcome. The hinged strainer-portion is readily swung into an elevated position and very quickly and easily cleaned, as described above. The sleeve portion 2 answers a useful purpose in preventing leaves, dust, and other matter from entering and accumulating in strainer 3'.

I have described my invention as applied

to a pump-spout. But it is obvious that this device may be applied to the spouts of hydrants, and also to faucets, pipes, chemical apparatus, and in fact it may be used wherever an efficient and readily-cleaned strainer is required.

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

10 1. A strainer or muzzle for pump spouts &c., composed of two members or sections, consisting simply of a cylindrical section or sleeve adapted to fit over and inclose the spout to which it is secured, and a perforated tubular section open at one end only, and hinged
15 at said end to said sleeve; and means for holding the hinged section closed, substantially as described.

20 2. A strainer for pump spouts &c., comprising an open-ended cylinder or sleeve section adapted to fit over and inclose the pump spout, and a second tubular section open at one end only, and hinged at said end to said sleeve section; said second section being com-
25 posed of wire-cloth or similar reticulated ma-

terial; and means for locking said hinged section when closed, substantially as described.

3. A strainer for pump spouts &c., comprising a cylindrical section or sleeve of wire-cloth open at both ends, and a second tubular wire cloth section open at one end only, and hinged at said end to said sleeve section; and means for locking said hinged section when closed, substantially as described.

4. A strainer or muzzle for pump spouts, comprising a cylindrical section or sleeve of wire-cloth having open ends with strengthening bands thereon, and a second tubular wire-cloth section open at one end only, and hinged at said end to said sleeve section; and means
40 for holding the hinged section closed, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE ^{his} X GAUNTZ.
mark

Witnesses:

J. FRANK WILSON,
UBERTO H. MERSON.