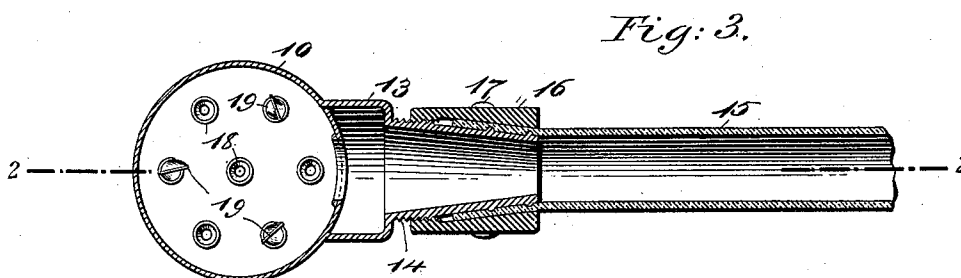
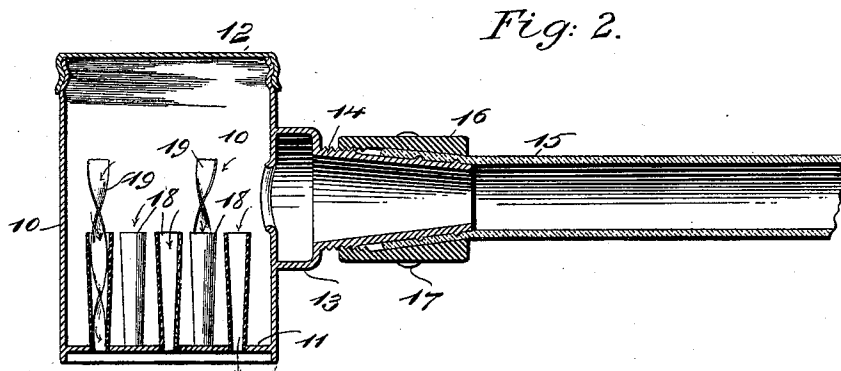
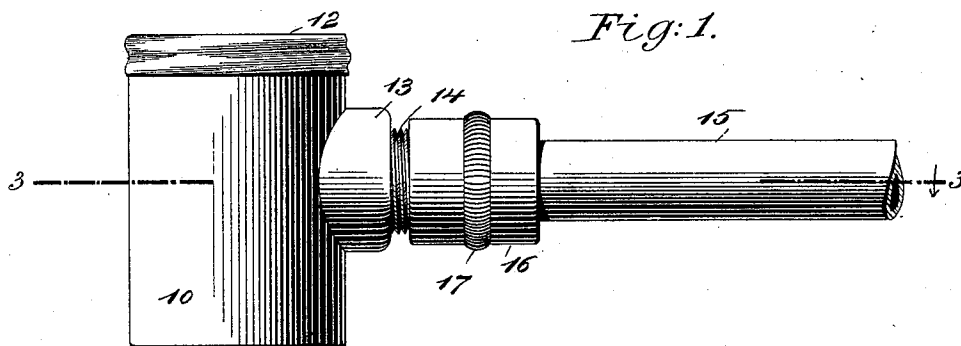


(No Model.)

J. L. PRENTISS.
BATHING APPLIANCE.

No. 539,301.

Patented May 14, 1895.



WITNESSES:
John A. Rennie
W. P. Hutchinson

INVENTOR
J. L. Prentiss
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH LYMAN PRENTISS, OF CAÑON CITY, COLORADO.

BATHING APPLIANCE.

SPECIFICATION forming part of Letters Patent No. 539,301, dated May 14, 1895.

Application filed July 16, 1894. Serial No. 517,713. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH LYMAN PRENTISS, of Cañon City, in the county of Fremont and State of Colorado, have invented a new and Improved Bathing Appliance, of which the following is a full, clear, and exact description.

My invention relates to improvements in bathing appliances, and more particularly to such appliances as may be used for the purpose of what is commonly known as the massage bath.

I have discovered the fact that, when a series of small, separate water-jets or currents which are in close proximity to each other, and are propelled under high pressure and consequent great velocity against the human body, and especially against sore joints of such body, while submerged under water, the impact of these pressure-jets, creates a peculiar, and very gratifying sensation, having all the evidence of generating and carrying with it, a strong electric current which penetrates the body. It further causes a speedy and free circulation of the blood in that portion of the body undergoing treatment, and the moving about of the jets besides, imparts a thorough kneading action which is much more even and gentle than if the same manipulation were done by hand.

For the purpose of applying my discovery in the best mechanical manner, I construct what I term a water pressure massage head, which is essentially a hollow cylindrical apparatus having means for water admission at one point, and a water discharge diaphragm, which diaphragm is provided with a greater or less number of small openings or passages, and such openings for ordinary purposes I prefer to make plain, round passages of a length of about two and a half times the diameter of the holes, so as to form a series of small nozzles having the maximum mechanical effect; but I do not confine, or limit myself to the particular shape of the jets or pressure head. For instance, the jet openings may be made of a shape similar to a rifle twist, in order to give each jet of water an independent revolving action, thus creating a more vigorous and searching contact with the body under treatment.

I hereby disclaim distinctly any of the va-

rious sprinkling or shower bath appliances which are used to project water spray against the body, when said body is not submerged. For the purpose of my bath appliance, it is essential that the water be projected from the pressure head under water against the body, likewise under water; and it is further essential that a high pressure be employed which in practice I find to be best at about fifty pounds per square inch.

The device is particularly well adapted for forcing mineral waters into contact with the body, for the treatment of rheumatism and other diseases.

To these ends my invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of my improved device as applied to a hose. Fig. 2 is a longitudinal section on the line 2 2 of Fig. 3, and Fig. 3 is a sectional plan on the line 3 3 of Fig. 1.

The device is provided with a hollow head 10, which is preferably of cylindrical shape, this being closed at one end, as shown at 11, except for the nozzles which open through the said end, as hereinafter described, and at the other end by a screw cap 12, which may be removed to enable the head to be cleaned or the screw plates and nozzles therein to be adjusted. Opening from one side of the head is a pipe 13 which has a reduced screw nozzle 14 adapted to connect with a hose pipe 15 by means of an ordinary coupling 16 which, as illustrated, is provided with a roughened ring 17 to enable it to be conveniently tightened. I have shown this particular hose coupling to illustrate an operative connection between the hose and the head 10, but it will be understood that any coupling may be used suitable for the purpose, without departing from the principle of the invention.

In the head is a series of nozzles 18, which open through the end 11 thereof, and in a portion of these nozzles are placed screw plates 19, that is, plates which are twisted to form screws, as shown in Figs. 2 and 3, and the

plates are inserted longitudinally in the nozzle so that the water, which passes through the nozzles containing the plates, is given a rapid twist and strikes with a peculiarly agreeable boring motion against the body of the person. The water is forced through the head under a very heavy pressure, and the head is held under water so that the body must also be immersed in order that the device may play upon it with the proper effect.

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

1. A bathing appliance, comprising the hollow head or body provided with an inlet and having a series of internal nozzles, the outlet or discharge ends of which are flush with the outlet ends of the head or body.

2. A bathing appliance, comprising the hollow head or body provided with an inlet and a series of internal nozzles, the outlet or discharge ends of which are flush with the outlet end of the head or body, and axially twisted flat strips in said nozzles with their longitudinal edges engaging the walls of the nozzles, substantially as described.

3. A bathing appliance, comprising the hollow cylindrical head having a removable cap on its upper end, a lateral inlet and coupling, and a series of internal nozzles in the head with their outlet ends flush with the bottom thereof, substantially as described.

JOSEPH LYMAN PRENTISS.

Witnesses:

W. A. KONEMAN,
ARTHUR W. LOCKE.