

Nov. 28, 1933.

F. TRAUTWEIN

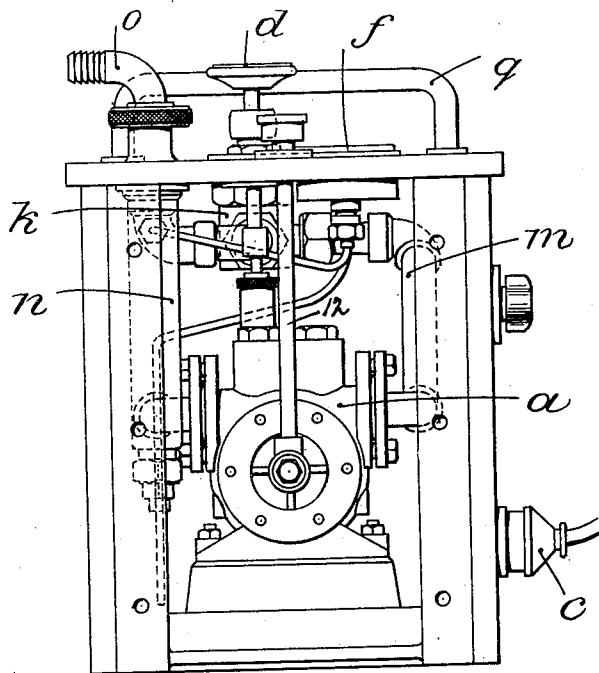
1,937,448

MASSAGING APPARATUS

Filed Jan. 19, 1932

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Fig. 3.



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Fig. 1.

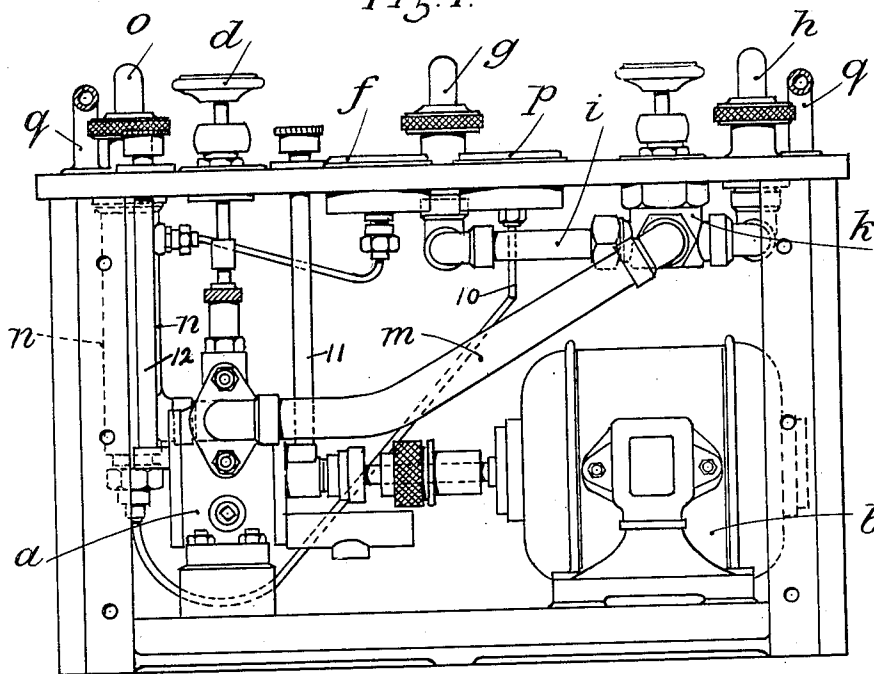
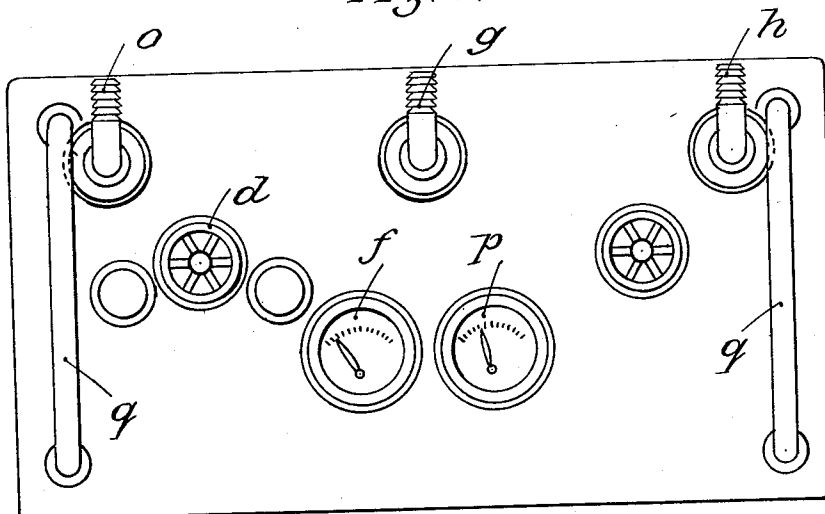


Fig. 2.



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UNITED STATES PATENT OFFICE

1,937,448

MASSAGING APPARATUS

Fritz Trautwein, Freiburg-in-Breisgau, Germany

Application January 19, 1932, Serial No. 587,571,
and in Germany January 26, 1931

1 Claim. (Cl. 103—57)

I have filed an application in Germany on January 26, 1931.

This invention relates to massaging apparatus, and particularly to those of the hydraulic type.

5 It is an object of this invention to provide a portable apparatus having provision for connection to domestic water systems and preferably those having hot and cold water circulating pipes to which the said apparatus may be connected.

10 In many of the water systems of municipalities, the water pressure is variable and not sufficiently powerful to deliver a jet with adequate force to effect massaging of the scalp or parts to be treated, and this is especially true where the circulating
15 pipes reach great elevations as they do in high buildings.

It is an object of this invention, therefore, to provide a distributing apparatus by which water from the service pipes may be commingled for
20 regulating the temperature and thereafter expelled under such pressure as is desirable for massaging purposes.

It is a further object of this invention to provide means for expelling the water under force
25 and to provide novel means for regulating the pressure and controlling the operation of the propelling instrumentalities.

It is a further object of this invention to provide a device of the character indicated in order
30 that it may be readily transportable and in which its connection to and disconnection from the water system may be expeditiously accomplished, the said device proving efficient and satisfactory in use, as well as comparatively inexpensive to pro-
35 duce and maintain.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and
40 claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application, wherein like characters denote corresponding parts in the several
45 views, and in which—

Figure 1 illustrates a view in elevation of an apparatus embodying the invention with one side of the casing removed;

50 Figure 2 illustrates a top plan view of said apparatus;

Figure 3 illustrates an end view thereof with the end of the casing removed.

The casing is provided with a suitable base 1 on which a pump *a* and a motor *b* are installed
55 in any suitable manner. The motor *b* is of the

electric type which may be supplied with current through an electric fixture *c* which is conventionally illustrated, it being understood that the motor will have suitable wiring for utilizing current delivered through the said electric fixture. 60 The armature shaft 2 of the motor is connected to the shaft 3 of the pump by suitable means, but these elements may be of any appropriate construction and need not be described in detail. A control switch 4 may be used for regulating the
65 current to the motor and, by this and other means to be presently explained, the pressure of the water issuing from the pump may be regulated.

A hand wheel *d* may be used to control the mechanism of a valve 5, which is conventionally shown, and the said valve is designed to regulate the pressure of water passing through the pipe *e* to be used, as will be presently explained. A dial
70 *f* of a gage 6 is exposed at the top of the casing, and a pipe 7 leads to the said gage and communicates with a pipe, to be presently explained. Pipes *g* and *h* have nipples which may be connected to the hot and cold water spigots of a
75 water system, and the pipe *g* has a connection *i* with a mixing valve *k*, whereas the pipe *h* has a connection with the mixing valve through a pipe 9, it being understood that the spigots to which the pipes *g* and *h* are connected will be utilized for determining the flow of water to the pipes to
80 insure a proper temperature.

A pipe *m* connects the mixing valve *k* with the pump and hence as the pump is operated it will act to force water to a pipe *n* which is connected to the pump by the pipe *e*. It is shown in the
85 drawing that the pipe 7 communicates with the pipe *n* and therefore the pressure of water in the pipe *n* will be registered by the gage 6. A pipe *o* is in communication with the top of the pipe *n* and a hose or pipe (not shown) may be connected to it for utilizing the water which has been compressed by the pump. 90

By means of this apparatus, the temperature of the water, as well as the pressure, may be regulated and since the dial *f* is readily in view, an operator can regulate the valves or the operation of the pump to secure the desired results. 100

The gage *p* is also visible at the top of the casing and it has a pipe 10 communicating with the bottom of the pipe *n* for registering the temperature of the water. 105

The top plate of the casing has handles *q* which may be used to facilitate the transportation of the apparatus or its manipulation.

Suitable lubricating pipes 11 and 12 are pro- 110

vided for lubricating the working parts of the apparatus.

I claim:

In a portable water massaging apparatus, a
5 casing arranged for ready portability, a pump
within said casing, an electric motor within said
casing and having operative connection to said
pump, a mixing valve within said casing and hav-
10 ing a stem projecting through the top of the casing
and provided with an operating handle exterior to
the casing, a pair of pipes leading from said valve
to the exterior of the casing and provided with nip-
ples on their exterior ends for connection respec-

tively to the hot and cold water pipes of a house
system, a third pipe leading from said valve to
the intake side of the pump, a fourth pipe leading
from said pump in which pipe the pressure of the
water is increased as compared with the pressure
80 in the pipes of the house system, the said pipe ex-
tending to the exterior of the casing and then
provided with means for connection to a massag-
ing instrumentality, a valve in said fourth pipe
85 having an operating handle on the exterior of the
casing, and means carried by the casing to control
the speed of said motor.

FRITZ TRAUTWEIN.

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