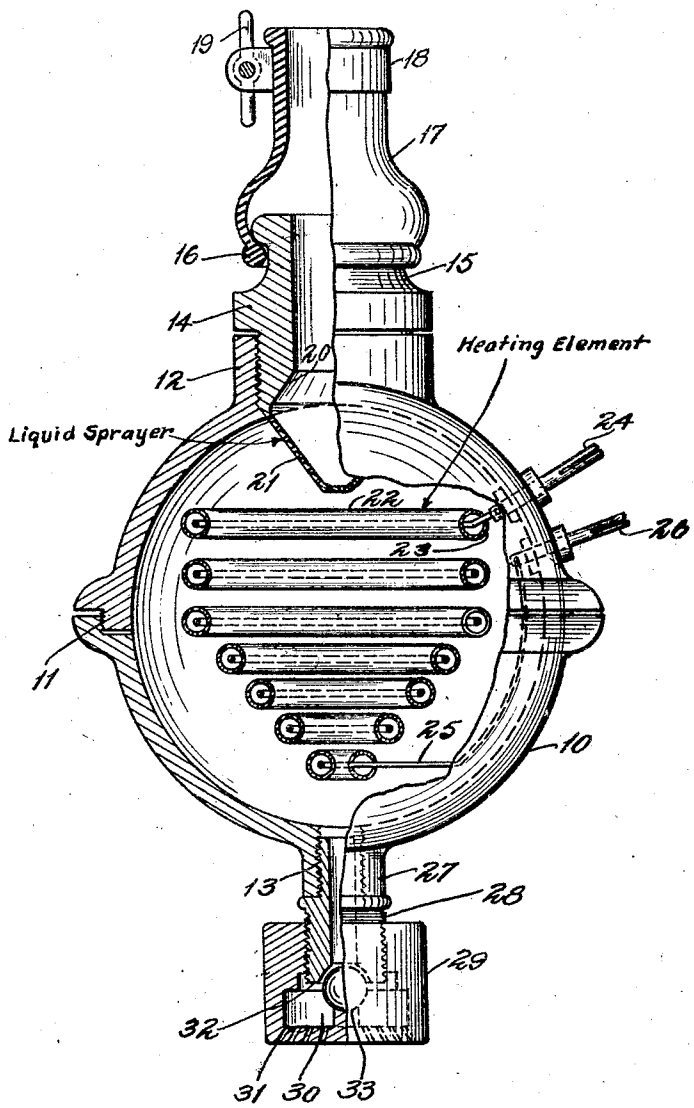
Aug. 4, 1925. 1,548,779

W. FALKENBERG

PORTABLE HOT WATER GENERATOR

Filed June 6, 1923



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PORTABLE HOT-WATER GENERATOR.

Application filed June 6, 1923. Serial No. 643,747.

To all whom it may concern:

Be it known that I, WILHELM FALKENBERG, a citizen of Germany, residing at New York, county of New York, and State of New York, have invented certain new and useful Improvements in Portable Hot-Water Generators, of which the following is a specification.

The present invention relates to improvements in portable electric hot water generator or water heater for the instantaneous preparation of hot water, and it is the principal object of my invention to provide an apparatus of this kind which can be conveniently carried along while traveling and which can readily be attached to any water supply faucet and electric socket.

Another object of the invention is the provision of an apparatus of this kind embodying means for accelerating the heating process by producing a diffusion of the water before the same is brought into engagement with the heating body.

A further object of the invention is the provision of an apparatus of this kind which is equipped with novel means for dispensing the water in any quantity desired either in a permanent stream or in a succession of streams dispensed at intervals controlled by the user.

These and other objects of my invention will become more fully known as the description thereof proceeds, and will then be specifically pointed out in the appended claims.

In the accompanying drawing forming a material part of this disclosure, the single figure illustrates as an example the preferred form of my apparatus, it is to be understood however, that I do not wish to be confined to the specific form illustrated, as many changes in the general arrangement and in the construction of the minor details of my apparatus may be devised without deviating from the spirit and scope of my invention as defined in the appended claims.

My apparatus consists chiefly of a bipartite substantially globular glass or other casing 10, the halves of which are connected in any convenient manner, for instance as indicated at 11.

This casing has an upper neck 12 provided with inner thread and a lower neck 13, also provided with inner thread. To the upper neck is attached a metal socket 14 or the like, provided with a circumferential groove 15 ending into a bead 16 adapted for engagement by the lower end of a rubber attachment or sleeve 17 allowing an attachment of the device to the lower end of a faucet, spigot or the like of a source of water supply by means of a clamping band 18 of any well known construction, the parts of which are united by a clamping screw or the like 19. The socket 14 carries at its lower, shouldered end 20 a sieve or nozzle 21. A heating coil 22 of any well known construction is arranged within the casing 10 and one end of this coil is held and connected by means of a wire or conductor 23 with a plug contact or the like 24, while the other end of the coil 22 is held and connected by a wire 25 with the second contact 26.

To the threaded neck 13, a socket 27 is attached provided with an externally threaded neck 28 for the attachment of a nut 29 equipped with an inner chamber 30 with which a plurality of outlets 31 are communicating. The lower end of socket 27 is formed with a seat 32 for a ball valve 33 which normally is seated against the suitably shaped bottom wall of the chamber 30. Suitable washers are provided to make all the connections watertight.

The operation of the device will be quite clear from the above description; the rubber socket is connected at its lower end to the bead of socket 14 and its upper end is clamped to a faucet by means of clamp band 18 and screw 19, the plug contacts 24, 26 are then connected in the usual manner by means of a cord to a socket of a source of electricity and the water from the faucet will be diffused by running through sieve 21 and in this state will come in contact with the heating body or coil 22 so that it is instantaneously heated to any desired degree, whereupon it can be withdrawn through channels 31 by the proper manipulation of nut 29 operating the ball valve. When it is desired to close the water exhaust openings, the nut is simply screwed home, allowing a convenient transportation of the apparatus.

What I claim as new, and desire to protect by Letters Patent is:

1. A hot water generator comprising a two-part globular casing having a cold wa-

ter inlet at one end, a hot water outlet at the opposite end, a heating coil arranged within the casing and having its coils of gradually reduced diameter toward the hot water outlet, and a conically formed perforated diffusing member arranged above the coil and underlying the inlet.

2. A hot water generator, comprising a two-part casing having a threaded neck in one part, a heating coil within the casing, a valve controlled outlet leading from the casing, a socket having threaded connection with said neck, and a sieve carried by the lower end of the socket to diffuse the water passing therethrough.

3. Electric hot water generator comprising a bipartite casing for the reception of a supply of cold water, a threaded neck on top of said casing, a beaded nipple adapted to be attached to said neck, a rubber socket adapted to be attached to said socket, a clamp for clamping said socket to a faucet, a sieve attached to said socket for diffusing the water, a heating coil within said casing, means for connecting said heating coil with a source of electricity, and means for controlling the water exhaust.

4. Electric hot water generator comprising a bipartite casing for the reception of a supply of water, a means for providing a water-tight connection between said casing and a faucet, a clamping means for said connection, a sieve for diffusing the water entering said casing, a heating coil within said casing below said sieve, wires for supporting the ends of said coil within said casing, a pair of plug contacts to which the ends of said wires are connected respectively for a connection with a source of electricity, a neck at the lower end of said casing, a threaded socket secured to said neck, a chambered nut adapted to be screwed upon said socket, valve seats in said chamber on nut and socket, a ball adapted to be seated on said seats, said nut provided with a plurality of water dispensing openings controlled by said ball.

In testimony whereof I have affixed my signature.

WILHELM FALKENBERG.