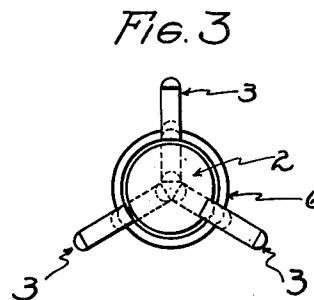
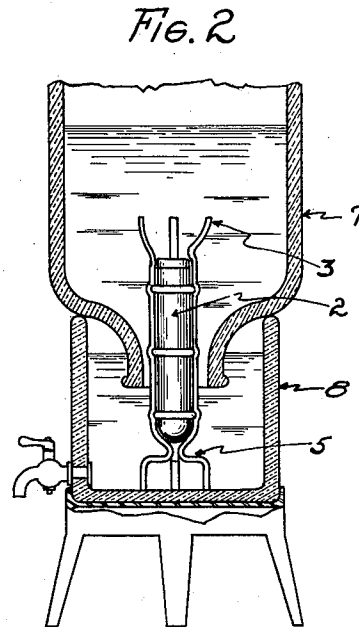
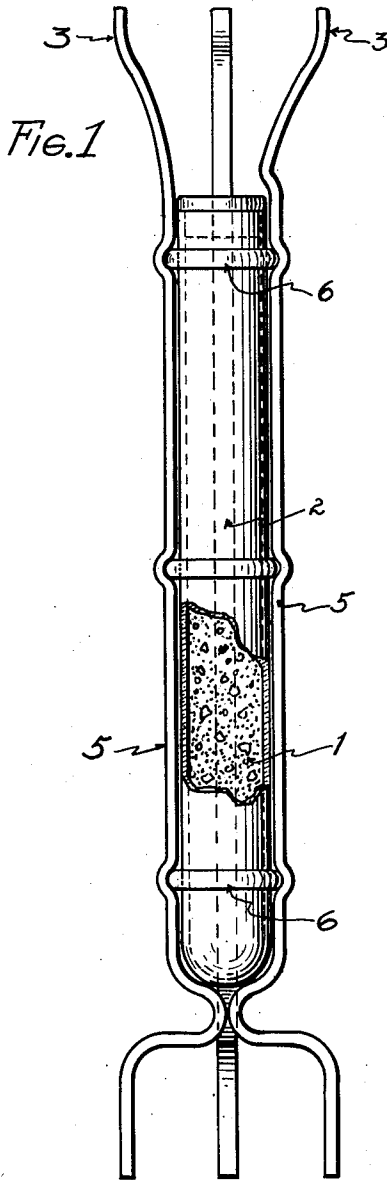


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CONTAINER USED FOR CHARGING FLUIDS OR GASES WITH THE
EMANATIONS EVOLVED FROM RADIOACTIVE SUBSTANCES
Filed June 29, 1925



WITNESSES:

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CONTAINER USED FOR CHARGING FLUIDS OR GASES WITH THE EMANATIONS
EVOLVED FROM RADIOACTIVE SUBSTANCES.

Application filed June 29, 1925. Serial No. 40,468.

To all whom it may concern:

Be it known that I, BENJAMIN W. HURD, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Improvement in Containers Used for Charging Fluids or Gases with the Emanations Evolved from Radioactive Substances.

My invention relates to a protected container for materials giving off radioactive emanations. An important object of my invention is to provide an efficient and simple means for charging or energizing with radioactive emanations the drinking water as usually supplied in bottles to homes and offices. It is a known fact that certain waters are comparatively rich in radioactive emanations and that it is this quality that renders them particularly healthful to those using them. As such water cannot be transported without losing most of its activity within a few hours after leaving its source, it is necessary, in order to derive benefit from the active water, to visit the springs and there use the water: as this involves a cost prohibitive to most people of moderate circumstances, I have conceived and devised this appliance for rendering the usual drinking water active. The appliance being cheap to construct, its benefits should be within easy reach of the average person.

My invention is not only applicable to use in the aforesaid water bottle but may be employed in any utensil suitable for holding a fluid or gas.

A further object is to provide a means for securely holding a radioactive material and reducing to a minimum the shielding substance between the material and the fluid or gas to be energized, and to further provide for the free passage of the fluid or gas around and by all parts of the containing means.

Other objects and advantages will be apparent throughout the course of the following description.

I attain these objects by the means illustrated in the accompanying drawing, in which—

Fig. 1 is a vertical elevation of the container and holder or frame, the container partly broken away showing the active material; Fig. 2 is a vertical section showing

the container and holder as applied to the usual form of drinking water apparatus; Fig. 3 is a plan view of the container and holder.

Similar numerals refer to similar parts throughout the several views.

The active material 1, is placed within the container 2, which is fitted into and protected by the holder or frame having properly spaced members 5, which protect the container longitudinally and members 6, which protect the container circumferentially; the members 5 and 6 are firmly joined so as to form a unit; the upper portion of the frame is sufficiently flexible to allow prongs 3, to converge while being inserted into the neck of a bottle, such as is used in the customary drinking water appliance as shown in Fig. 2, and then diverging to their original position when within the bottle, thus preventing the device from falling out of its own accord should the bottle be inverted neck downward; the lower portion of the frame 5, is formed to act as a footing to hold the container in an upright position and is large enough to prevent the device from falling into the said water bottle when said bottle is placed neck up; as this footing makes the device self-supporting it may be set into a pitcher, crock or other utensil.

To use in the water appliance referred to and shown in Fig. 2, the frame, with container in place, is inserted into the neck of the bottle 7, which is then inverted and set in the stand 8, in the usual manner; in this position the device is completely surrounded by the fluid, every part of which, as it leaves the bottle, must pass through the energized area and there absorb the emanations given off by the active material in the container.

It will be obvious to those familiar with the art that many changes are possible in the above construction without in any manner departing from the spirit of the invention or the scope of the subjoined claims.

Having fully described my invention what I claim is—

1. The combination of a tube filled with radioactive material, a holder supporting said tube, flexible means at the top of said holder to allow same to be inserted into a small opening and capable of springing out radially after passing through said opening,

supporting means on the bottom of said holder so that said holder may stand upright without falling, substantially as described.

2. The combination of an elongated container filled with material emitting radioactive emanations, a holder supporting and protecting said container by means of encircling rings and wires, flexible means on one end of said holder to allow the holder and container to pass through a small opening, supporting means on the opposite end to allow said holder to remain upright without falling, substantially as set forth.

3. The combination of a container filled with a radioactive material, a holder supporting and protecting said container, flexible means on one end of said holder to allow

the holder to be inserted into and through the neck of a bottle, to center and retain said holder in position, supporting means on the opposite end for a footing to maintain said holder in a vertical position, substantially as described.

4. The combination of a supporting frame holding and protecting a radioactive material, a flexible, radially expanding and contracting means at one end of said supporting frame to retain said frame in place when inserted into the neck of a bottle, a footing at the other end of said supporting frame for maintaining said frame in an upright position, substantially as described.

In testimony whereof I affix my signature.
BENJAMIN W. HURD.