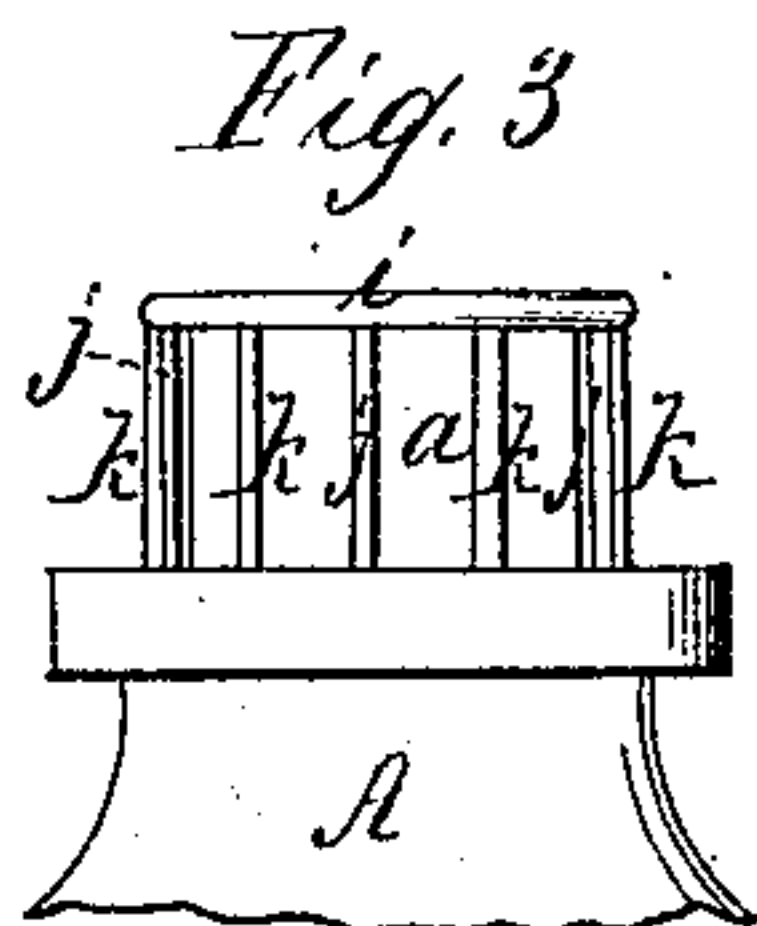


Patented Mar. 18, 1862.



Inventor
Thomas Warner

UNITED STATES PATENT OFFICE.

THOMAS WARKER, OF NEW YORK, N. Y.

IMPROVED BOTTLE FOR AERATED LIQUIDS.

Specification forming part of Letters Patent No. 34,709, dated March 18, 1862.

To all whom it may concern:

Be it known that I, THOMAS WARKER, of the city, county, and State of New York, have invented a new and Improved Fountain-Bottle; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a vertical central section of my invention. Fig. 2 is a horizontal section of the same through the neck of my bottle. Fig. 3 is a side elevation of the neck.

The same letters in the three figures denote like parts.

My invention consists in the application or use of a lining of glass, porcelain, enamel, or other suitable material which will not be affected by coming in contact with the contents of the bottle, in combination with the metal head and spout, through which the contents of the bottle are drawn in such a manner that the strength of said head is preserved, and that the same can be connected to the bottle precisely in the same manner and with the same firmness as a solid metal head of the ordinary construction, and at the same time the contents of the bottle are prevented coming in contact with any portion of the metal.

My invention consists, also, in the arrangement of a circular shoulder or bead on the neck, in combination with alternate vertical ridges and grooves for the purpose of preventing the metal screw-collar, which serves to retain the fountain-head, from turning or moving in a longitudinal direction, and preserving at the same time the full strength of the neck.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

The bottle A, which is intended to contain gaseous liquids under a pressure sometimes as high as two hundred pounds to the square inch, is made of glass, and fitted on its neck *a* is the fountain-head B. The external shell of this head is made of tin or other metal sufficiently strong to sustain the desired pressure,

and provided with a female screw-thread, *b*, to screw on a corresponding male screw-thread, *c*, cut upon a metal collar, *c'*, on the neck. Through the head B a channel, *d*, is formed, and this channel is fitted with a lining, *e*, of glass, porcelain, or other suitable material which will not be affected by coming in contact with the contents of the bottle. The channel *d* is closed by a valve, *f*, also made of glass, and retained in its seat by a spiral spring, *g*, and a trigger, *h*, serves to open said valve when it is desired to draw out some of the contents of the bottle. By these means the liquid contents of the bottle are not allowed to come in contact with metal at any point, and at the same time the full strength and all the advantages of a metal fountain-head are preserved. The collar *c'*, which retains the fountain-head, is cast round the neck, and, in order to retain it firmly and to prevent it turning or slipping off in a longitudinal direction, I provide the necks of my bottles with circular beads or shoulders *i* near to the top edge, and with alternating vertical grooves *j* and ridges *k*. By this construction the strength of the neck is preserved, and still the desired object is perfectly attained, whereas by circular or oblique grooves the neck of the bottle is weakened and a turning motion of the collar is not prevented.

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

1. The employment or use of a lining, *e*, of glass or other suitable material, such as herein described, in combination with the metal fountain-head B, substantially in the manner and for the purpose herein specified.

2. The arrangement of the circular bead or shoulder *i* on the top edge of the neck *a* of the bottle A, in combination with the alternate vertical grooves and ridges *j k*, as and for the purpose shown and described.

THOMAS WARKER.

Witnesses:

MORITZ MANKE,
GEORGE LEIDES.