

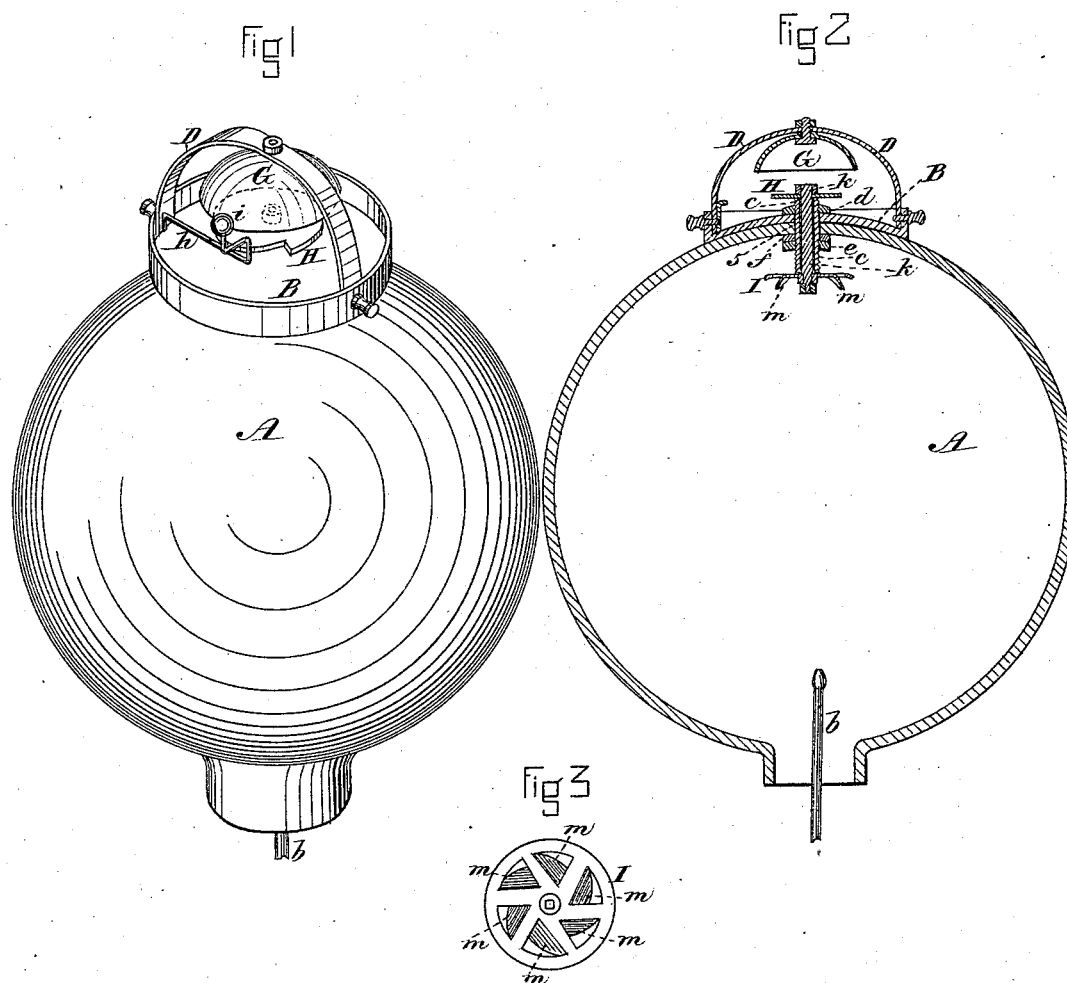
(No Model.)

J. BROWN & J. H. SHEPHERD.

WATER JET ATTACHMENT FOR SODA WATER APPARATUS.

No. 306,054.

Patented Oct. 7, 1884.



WITNESSES  
W. J. Cambridge  
Chas. E. Griffin

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# UNITED STATES PATENT OFFICE.

JOHN BROWN, OF MEDFORD, AND JOSEPH H. SHEPHERD, OF AUBURNDALE,  
ASSIGNORS TO JAMES W. TUFTS, OF MEDFORD, MASSACHUSETTS.

## WATER-JET ATTACHMENT FOR SODA-WATER APPARATUS.

SPECIFICATION forming part of Letters Patent No. 306,054, dated October 7, 1884.

Application filed March 17, 1884. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN BROWN, of Medford, in the county of Middlesex and State of Massachusetts, and JOSEPH H. SHEPHERD, of Auburndale, in the county and State aforesaid, citizens of the United States, have invented certain Improvements in Water-Jet Attachments for Soda-Water Apparatus, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a water-jet attachment for soda-water apparatus having our improvements applied thereto. Fig. 2 is a vertical section through the center of the same. Fig. 3 is a plan of the under side of the water-wheel.

It is frequently the custom to place upon the top of the marble casing of a soda-water apparatus a glass globe or cylindrical casing having within it a pipe or nozzle from which is projected a jet of water against the inside of the glass for the purpose of attracting attention to the apparatus, and thereby increasing the sale of the beverage dispensed therefrom.

Our invention relates to a water-jet attachment of this description, and has for its object to attract greater attention to the apparatus than can be effected by the jet of water alone.

To this end our invention consists in the combination, with the glass globe or casing of such an attachment, of a bell which is adapted to be rung by mechanism actuated by the jet of water within the globe or casing; and our invention also consists in certain details of construction and combinations of parts, as hereinafter set forth and specifically claimed.

In the said drawings, A represents the glass globe or casing of a water-jet attachment for a soda-water apparatus, within the lower portion of which is located the vertical pipe *b*, from the nozzle of which a jet of water is projected, as usual, up against the inside of the upper portion of the globe A.

B is a flanged metal cap of concavo-convex form, which is secured to the outside of the top of the globe A by means of a tubular screw, *c*, which passes through an aperture, 5, in the glass, and nuts *d e*, which are turned upon the screw above and below the glass, a washer or

packing, *f*, of rubber or other suitable elastic substance, being interposed between the nut *e* and the under side of the glass around the aperture 5, to insure a water-tight joint.

To the cap B are secured the lower ends of an arched strip, D, from the center of which is suspended a bell, G, the spring-wire arm *h* of the hammer *i* of which is bent in the form shown, and secured at its lower end to the bottom of the strip D. This arm *h* is vibrated rapidly, to produce a continuous ringing of the bell, by the action thereon of a horizontal cam, H, secured to the upper end of a vertical shaft, *k*, which extends down through the hollow screw *c*, and has secured to its lower extremity a fan-wheel or disk, I, provided on its under side with flanges or buckets *m*, against which impinges the stream or jet of water projected up from the nozzle of the pipe *b*, whereby the water-wheel I is rapidly rotated, and the cam H caused to alternately press back and release the spring-arm *h*, the hammer *i* at the end of which is thus caused to deliver its blows in rapid succession upon the bell G.

The pipe *b* is preferably inclined slightly to one side to cause the stream of water to strike the buckets of the water-wheel I at an angle, whereby better results are obtained.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. In a water-jet attachment for soda-water apparatus, the combination, with the globe or casing, of a bell operated by mechanism actuated by a jet or stream of water within the said globe or casing, substantially as and for the purpose set forth.

2. In a water-jet attachment for soda-water apparatus, the combination, with the globe or casing, of a bell, mechanism, substantially as described, for vibrating its hammer-arm, and a flanged disk or water-wheel connected with said mechanism and rotated by a jet or stream of water within the globe or casing, substantially as and for the purpose described.

3. In a water-jet attachment for soda-water apparatus, the combination, with the globe or casing A, of the bell G, spring-arm *h*, and hammer *i*, the cam H, secured to the vertical shaft *k*, passing through the tubular screw *c*, and the flanged disk or water-wheel I, secured to the shaft *k*, and adapted to be rotated by a jet or

stream of water projected up within the globe or casing, all constructed to operate substantially in the manner and for the purpose set forth.

- 5 4. In a water-jet attachment for soda-water apparatus, the combination, with the globe or casing A, and the cap B, having mounted thereon the bell G, of the tubular fastening-screw *c*, with its nuts *d e* and packing *f*, and  
10 the shaft *k*, extending through said tubular screw and carrying at its lower end a flanged

disk or water-wheel, and connected at its upper end with the bell-ringing mechanism, all operating substantially in the manner and for the purpose described.

Witness our hands this 12th day of March, 15  
A. D. 1884.

JOHN BROWN.

JOSEPH H. SHEPHERD.

In presence of—

P. E. TESCHEMACHER,

W. J. CAMBRIDGE.