

J. W. HAINES.
Dredge-Bottle.

No. 204,564.

Patented June 4, 1878.

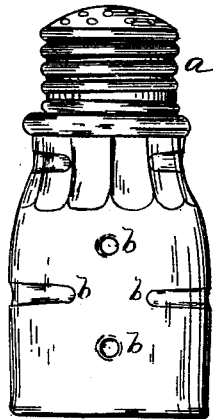


Fig. 1.

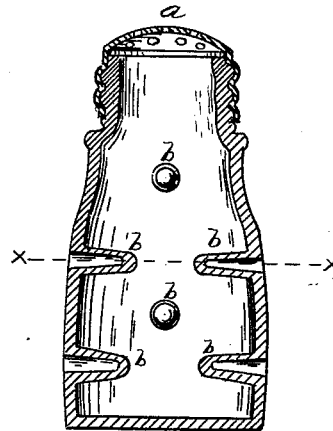


Fig. 2.

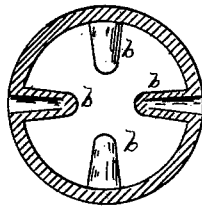


Fig. 3.

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JOHN W. HAINES, OF CAMBRIDGE, MASSACHUSETTS.

IMPROVEMENT IN DREDGE-BOTTLES.

Specification forming part of Letters Patent No. 204,564, dated June 4, 1878; application filed May 6, 1878.

To all whom it may concern:

Be it known that I, JOHN W. HAINES, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented a new and valuable Improvement in Salt-Bottles for Table or Caster Use, of which the following is a specification:

This invention relates to that class of salt-bottles or salt-boxes which are arranged to prevent the salt from forming into lumps, or to break such lumps when formed, and to prevent the clogging of the cap, so that the salt may run easily through the perforations therein.

The devices heretofore used for preventing the lumping of the salt have been of two general kinds. The first kind consisted in attaching metallic stems or projections to the bottom, sides, or cap, against which metallic projections the lumps struck as the bottle was shaken. The second kind consisted of metallic forks or pieces of different shapes placed loosely within the bottle, so that as the bottle is shaken these pieces of metal rattle around therein and break the lumps.

My invention consists in a glass salt bottle or box, blown in a mold of such a shape and construction that the interior of the bottle is furnished with projections or arms extending from the sides or bottom (or both) of the bottle, said arms or projections being integral with the bottle, and of course glass. By this means the necessity of attaching or fastening any arms or stems to the inside of the bottle, or of placing anything therein loosely, is ob-

viated, and all applications of metal pieces of any kind, which are usually unhealthy, and have a tendency to soil and color the salt, are done away with.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an elevation of a salt-bottle embodying my improvement. Fig. 2 is a vertical section of the same. Fig. 3 is a horizontal section upon line *x x*, Fig. 2.

a is an ordinary perforated cap. *bb* are the inwardly-projecting stems or arms, of any proper size and shape, of a piece with the rest of the bottle, the whole being of glass, blown in a mold. These arms *b* may be of any number, and may project either from the sides or bottom, as the mold is constructed.

Of course the bottle described may be used for containing pepper or other articles, if desired.

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

A glass bottle for table or caster use, for holding salt or other substance, provided with stems or arms *b b*, projecting inwardly from the sides or bottom, or both, said stems or arms being integral with the body of the bottle, substantially as shown, and for the purpose of preventing or destroying lumps therein, as a new article of manufacture.

JOHN W. HAINES.

Witnesses:

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