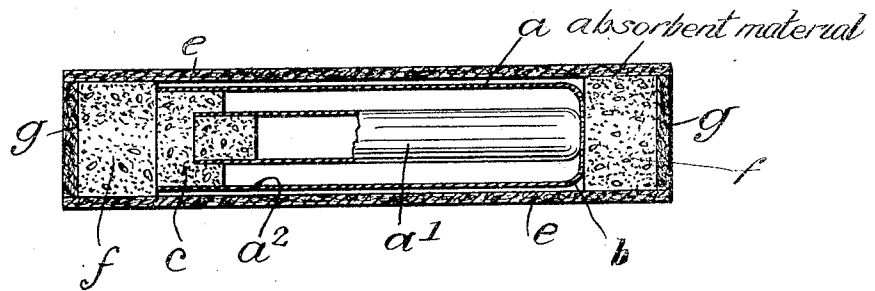


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P. S. O'DONNELL
DISTRIBUTOR CONTAINER FOR HOLDING AND DIFFUSING
DISINFECTANTS, DEODORANTS, AND THE LIKE
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UNITED STATES PATENT OFFICE.

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DISTRIBUTOR-CONTAINER FOR HOLDING AND DIFFUSING DISINFECTANTS,
DEODORANTS, AND THE LIKE.

Application filed November 17, 1923. Serial No. 675,314.

To all whom it may concern:

Be it known that PATRICK SHAUGHNESSEY O'DONNELL, of 24 Mornington Crescent, in the county of London, England, a subject of the King of Great Britain and Ireland, has invented certain new and useful Improvements in Distributor-Containers for Holding and Diffusing Disinfectants, Deodorants, and the like, of which the following is a specification.

This invention for improvements in distributor-containers for holding and diffusing disinfectants, deodorants and the like, has for its object to provide a simple and inexpensive distributor-container which shall be applicable for the package and transport of volatile disinfecting and deodorising agents and germicides, and equally applicable as soon as occasion arises for slowly evaporating and diffusing the contents.

The improved device forming the subject matter of the present invention comprises an impervious receptacle or receptacles of thin metal or other suitable material which when required, may be punctured, a charge of some volatile disinfecting or deodorising agent or compound within said receptacle or receptacles and an outer wrapper of unsized paper or other absorbent material forming a protector to the receptacle or receptacles in the first place, and a diffuser for the contents when the container is fractured or punctured.

In the form of the invention shown herein two tubes or receptacles are employed and arranged preferably one inside the other. The inner receptacle is charged with a strong solution of permanganate of potash or other oxidizing agent, and the outer receptacle contains a solution of formaldehyde. The inner and outer receptacles are sealed and a covering of un-sized paper or absorbent material is applied over the outer receptacle. If both tubes be pierced simultaneously by inserting a sharp pointed instrument the oxidizing agent will mix with and volatilize the formaldehyde the vapour of which is a known powerful germicide and disinfectant. Other oxidizing agents besides permanganate of potash may be employed including calcium oxide, barium peroxide, and sodium dichromate.

The accompanying drawing is a longitudinal central sectional view of a distributor-container constructed and arranged in accordance with this invention.

The receptacle *a* which is made of lead, tin or other suitable metal with thin walls which can be easily pierced has a closed end *b* and an open end *c* which is closed after filling with a disinfecting and deodorising liquid by corking and sealing or in any other suitable manner.

The receptacle *a* is wrapped or enclosed in a tube or sleeve *e* made of unsized paper and retained in position by plugs of cork *f* or other suitable material inserted in the ends of the tube, and secured by the application of an adhesive or otherwise, paper wads or discs *g* being also adhesively fixed in the ends.

In the form shown, the receptacle *a* consists of two sealed tubular receptacles *a'* *a''* are arranged one inside the other and enclosed in the absorbent tube or sleeve *e*. The inner receptacle *a'* is charged with permanganate of potash or other oxidizing agent and the outer receptacle *a''* with a formaldehyde or other solution. Both receptacles can be pierced at the same time.

The open end of the inner receptacle *a'* is arranged with said end secured in the closure *c* of the receptacle or container *a''* and the closures *f* in the ends of the tube *e* bear respectively against the ends of the receptacle or container *a''*, one of them bearing also against the closure *c*.

The invention as described provides a convenient form of disinfecting apparatus suitable for use at the shortest notice and without the use of any accessory device other than a pin, or needle or some sharp instrument for piercing the impervious receptacles. The device may of course if desired, be employed in connection with other apparatus as for example apparatus for producing air currents such as blower apparatus or fans for diffusing the disinfecting and deodorising compounds.

I claim:

A dispensing container comprising an open ended tube of absorbent material, a puncturable container impervious to liquid, arranged in said tube and having an open end, a closure for said end and closures for

the ends of said tube, said last named closures bearing against the ends of said puncturable container, and a puncturable inner container in the first named puncturable
5 container and arranged with one end secured in the closure of the first named puncturable container.

In testimony whereof he has affixed his signature, in presence of two witnesses.

P. S. O'DONNELL.

Witnesses:

WILLIAM HENRY DAVIS,
SAMUEL PERCIVAL.