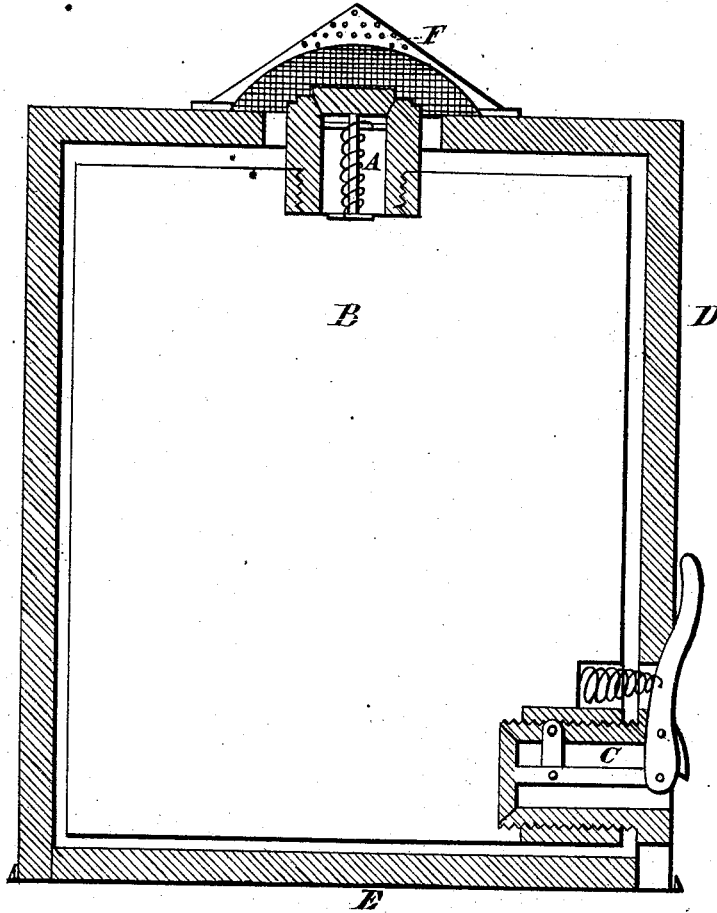


M. CHASE & A. W. GRAM.
Vessel for Inflammable Liquids.

No. 162,350.

Patented April 20, 1875.



Witnesses:

H. G. Talpoy.
D. C. Buntlett

Inventors:

Milton Chase
Alonzo W. Gram

UNITED STATES PATENT OFFICE.

MILTON CHASE AND ALONZO W. CRAM, OF HAVERHILL, MASSACHUSETTS.

IMPROVEMENT IN VESSELS FOR INFLAMMABLE LIQUIDS.

Specification forming part of Letters Patent No. **162,350**, dated April 20, 1875; application filed January 30, 1875.

To all whom it may concern:

Be it known that we, MILTON CHASE and ALONZO W. CRAM, both of Haverhill, in the county of Essex and State of Massachusetts, have invented certain Improvements in Vessels for Inflammable Liquids, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing and the letters of reference marked thereon, making part of this specification, in which is represented a vertical sectional view of our improved vessel.

The object of our invention is to provide a vessel or can for inflammable liquids or materials, and in which all danger of their explosion, in consequence of a building or apartment burning in which they are stored, is securely guarded against.

Our present invention is an improvement on the invention embraced in, and covered by, Letters Patent of the United States issued to us August 4, 1874, No. 153,702.

The nature of our invention consists in providing the vessel, and which is coated or incased in a covering of some suitable non-conducting material, with a safety-valve and spring-faucet.

The construction and operation of our invention are as follows: B is the vessel, and may be of any desired form, and constructed of any suitable material. This vessel B is coated or incased in some suitable non-conducting material, D, so as to render the same, as it were, fire-proof. This fire-proof coating D may be permanently attached to the outer wall of the vessel B, or so secured as to be detachable, and may be protected by an outer jacket, constructed of iron or other suitable material. A is the pressure safety-valve, and is arranged at the upper section of the vessel B, as clearly shown in the drawing, and which is designed to relieve the vessel from any over or undue

pressure. This pressure-valve A is protected by a wire-netting, marked F, to prevent, in case of accident, any flame entering the vessel B through the safety-valve A. C is a spring-faucet, and is so constructed that to open the same pressure is to be applied to the handle; but the spring is so arranged that so soon as the handle is relieved from pressure the spring shall automatically close the faucet and hold the same in a closed position.

From the foregoing full and detailed description the operation of our improvement will readily be understood.

What we claim, and ask Letters Patent of the United States for, is—

1. The combination of the vessel B, having the detachable covering D, composed of a non-conducting material, and the safety-valve A, substantially as described, and for the purpose specified.

2. The combination of the vessel B, having the detachable covering D, composed of a non-conducting material, the safety-valve A, and spring-faucet C, the whole being constructed and arranged substantially as described, as and for the purpose specified.

3. A carrier for transporting inflammable liquids, consisting of the vessel B, having a coating, D, of some suitable non-conducting material, wire-gauze shield F, safety-valve A, and spring-faucet C, the whole being constructed and arranged to operate substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

MILTON CHASE.
ALONZO W. CRAM.

Witnesses:

H. G. PALFREY,
D. C. BARTLETT.