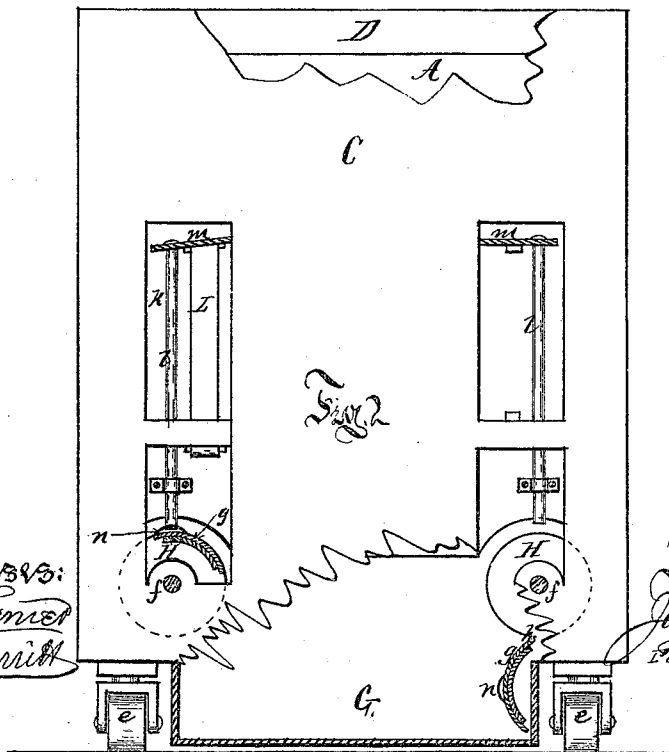
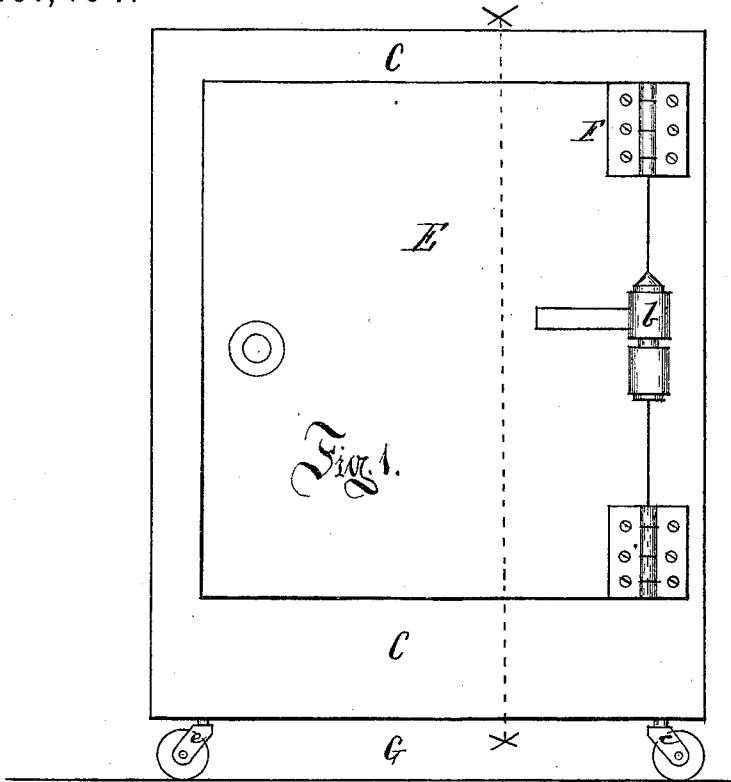


J. W. WARNER.
Fire-Proof Safes.

No. 151,454.

Patented May 26, 1874.



Witnesses:
Richard C. Jones
Thompson Barritt

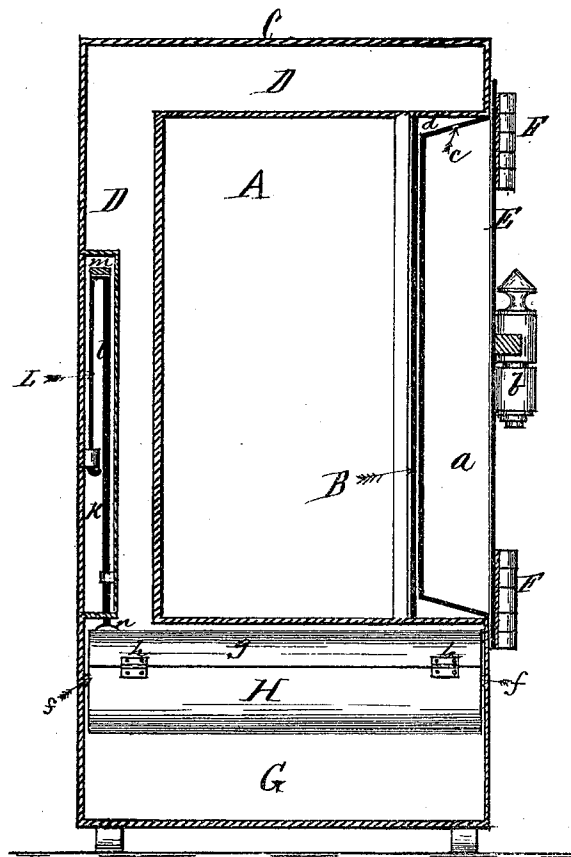
Inventor:
Jedediah W. Warner
By
Henry C. Jones
Att'y.

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Fig. 3.



Witnesses:
Richard Lerner
Franklin Barritt

Inventor:
Judson W. Warner
Per *Henry Lerner*
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UNITED STATES PATENT OFFICE.

JUDSON W. WARNER, OF ONEIDA, NEW YORK.

IMPROVEMENT IN FIRE-PROOF SAFES.

Specification forming part of Letters Patent No. 151,454, dated May 26, 1874; application filed May 22, 1874.

To all whom it may concern:

Be it known that I, JUDSON W. WARNER, of Oneida, county of Madison, State of New York, have invented certain Improvements in Fire-Proof Safes, of which the following is a specification:

The object of my invention is to provide for means to protect safes from fire in a more effective and surer way than heretofore done.

The nature of my invention consists in the construction of a fire-proof safe with chambers to be filled with carboic-acid gas, or equivalent material, and with a reservoir at its bottom, or otherwise adjacent to chambers containing the materials for generating the gas, and with revolving acid-holding cylinders, having doors connected with rods and springs and fusible metal bars, all as more fully hereinafter set forth.

In order to more fully describe my invention, I refer to the accompanying drawings forming a part of this specification.

Figure I, Sheet I, is a front view of a safe embodying my invention. Fig. II, Sheet I, is a back view with part of the outer wall removed. Fig. III is a sectional view through line *x x*, Fig. I.

A represents the inner safe, in which documents, valuables, and such things are deposited. B represents the door of the inner safe. C C represent the outer walls, leaving spaces D D between the inner safe A and outer walls C C. E represents the door for the outer walls, and is made double, inclosing a compartment, *a*. Communication between the compartment and the spaces D D is provided for by the application of a bracket or gas-joint, *b*, which, being hollow, conducts the gas from the spaces D D to the compartment *a*, from which it escapes, through an orifice, *c*, into the space or compartment *d* formed between the inner and outer door, from where it escapes into the atmosphere, through the opening between the outer door and the walls; or, if this is made air and gas tight, through an opening

or openings extra, provided for. F F are the hinges supporting the door E. G is a reservoir placed underneath the safe, between the four legs *eeee*, the sides of which are made air and gas tight to the bottom of the safe. This reservoir contains the marble-dust and water, in case of its being desired to generate carbonic-acid gas of such materials. Suspended over this reservoir are a number of revolving cylinders, H H, provided with axles *ff*, pivoted to the front and back of the outer walls. Said cylinders are made of lead or any material suitable to hold acid, and are provided with a cover, *g*, hinged to the cylinders at *h h*. These covers, made heavy, or attached to the same by extra weights, will cause the cylinder to revolve when a fastening or catch is unhooked by the action of the fire melting a piece of metal, L, holding the same in position, when the cylinders are filled with acid, and thus cause the acid to be emptied into the reservoir containing the marble-dust and the water. Any desired number of such cylinders may be suspended over the reservoir G, and, being filled with acid, are held in position by aid of fastenings K, consisting of a spring, *m*, and rod *l*, held down in the hole *n* of the cylinder by aid of metal strips or alloys L, which are so melted together, or of such a nature that they will melt under different temperatures, thus liberating acid into the reservoir below in proportion to the fire and exposure of the safe to a more or less intense fire.

Having thus fully described my invention, I desire to claim—

In combination with a fire-proof safe having chambers D, the under reservoir G, revolving cylinders H H, with doors *g g*, the springs *m*, rod *l*, and the metallic bars L L, all constructed substantially as and for the purposes herein set forth.

JUDSON W. WARNER.

Witnesses:

FRANKLIN BARRITT,
RICHARD GERNER.