

E. HOLMES & H. C. ROOME.

Improvement in Lining for Safes.

No. 120,874.

Fig. 1.

Patented Nov. 14, 1871.

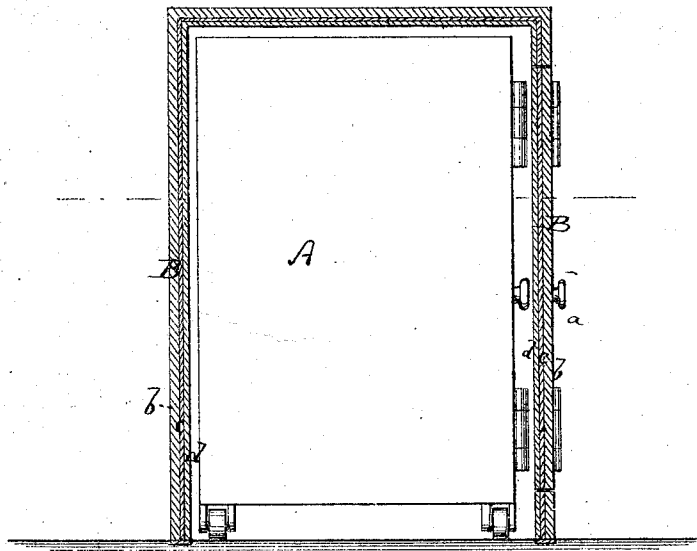


Fig. 2.

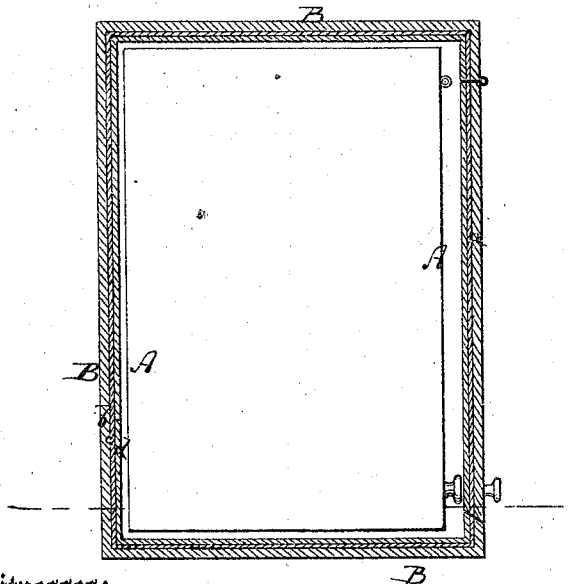
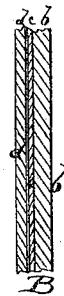


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDWIN HOLMES, OF BROOKLYN, NEW YORK, AND HENRY C. ROOME, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN ELECTRIC LININGS FOR SAFES.

Specification forming part of Letters Patent No. 120,874, dated November 14, 1871.

To all whom it may concern:

Be it known that we, EDWIN HOLMES, of Brooklyn, in the county of Kings and State of New York, and HENRY C. ROOME, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in the Application of Electric Lining to Vaults, Safes, and other structures; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 represents a sectional elevation provided with our improved electric exterior casing. Fig. 2 is a horizontal section of the same. Fig. 3 is a detail section of part of the screen.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved method of applying electric-alarm apparatus to safes, vaults, and other structures, with the view to greater efficiency of action and simpler mode of application.

The method heretofore employed has been to apply a lining connected with the electric apparatus directly to the inside of the safe or vaults. Whenever such a safe or vault is attacked by burglars it is injured or destroyed before the lining is reached and the alarm given. To remedy this defect we build around the structure A to be guarded an exterior case, to which the lining B, which may consist either of metallic sheets or a network of wires, is applied, and which shall constitute an exterior electrical burglar-proof safe of itself, so that if any attempt be made to enter by cutting, drilling, or breaking through an alarm will be sounded before the structure-guarded A is itself reached. This exterior inclosure B is provided with a door, *a*, through which access may be gained to the door of the

structure guarded, and said door being provided with the usual springs to break or establish electrical contact in the act of opening or closing. If any particular portion of a safe or vault is considered especially liable to the assaults of burglars and the remainder thought to be safe, we apply to that particular portion a section of this exterior case, without inclosing the whole. We prefer to build this outer inclosure of wood or papier-maché *b*, and apply the electrical lining *c* to its interior surface. To protect the lining from injury by contact with the sides of the safe or vault we either interpose a thin partition, *d*, of wood, papier-maché, or straw-board between the two, or set the lining a short distance from the wall of such safe or vault, to obtain an intermediate air-space. The lining of the door should always be so protected by having the interior partition fastened to the outer door, thus inclosing the lining between two protecting surfaces. The lining may be applied directly to the exterior surface of the safe proper and be covered by the protecting surface. The electric lining may, however, also be applied to the exterior body of the safe without the use of an outer protection.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A safe or vault provided with an electric outer lining surrounding or covering it wholly or in part, and insulated therefrom, and protected, substantially as herein shown and specified.

2. The exterior inclosure B, made of the parts *b* and *c*, substantially as herein shown and described, to be applied to a safe or vault, in the manner specified.

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