

E. HOLMES & H. C. ROOME.

Improvement in Electro Magnetic Burglar Proof Curtain.

No. 120,875.

Patented Nov. 14, 1871.

Fig. 1.

Fig. 2.

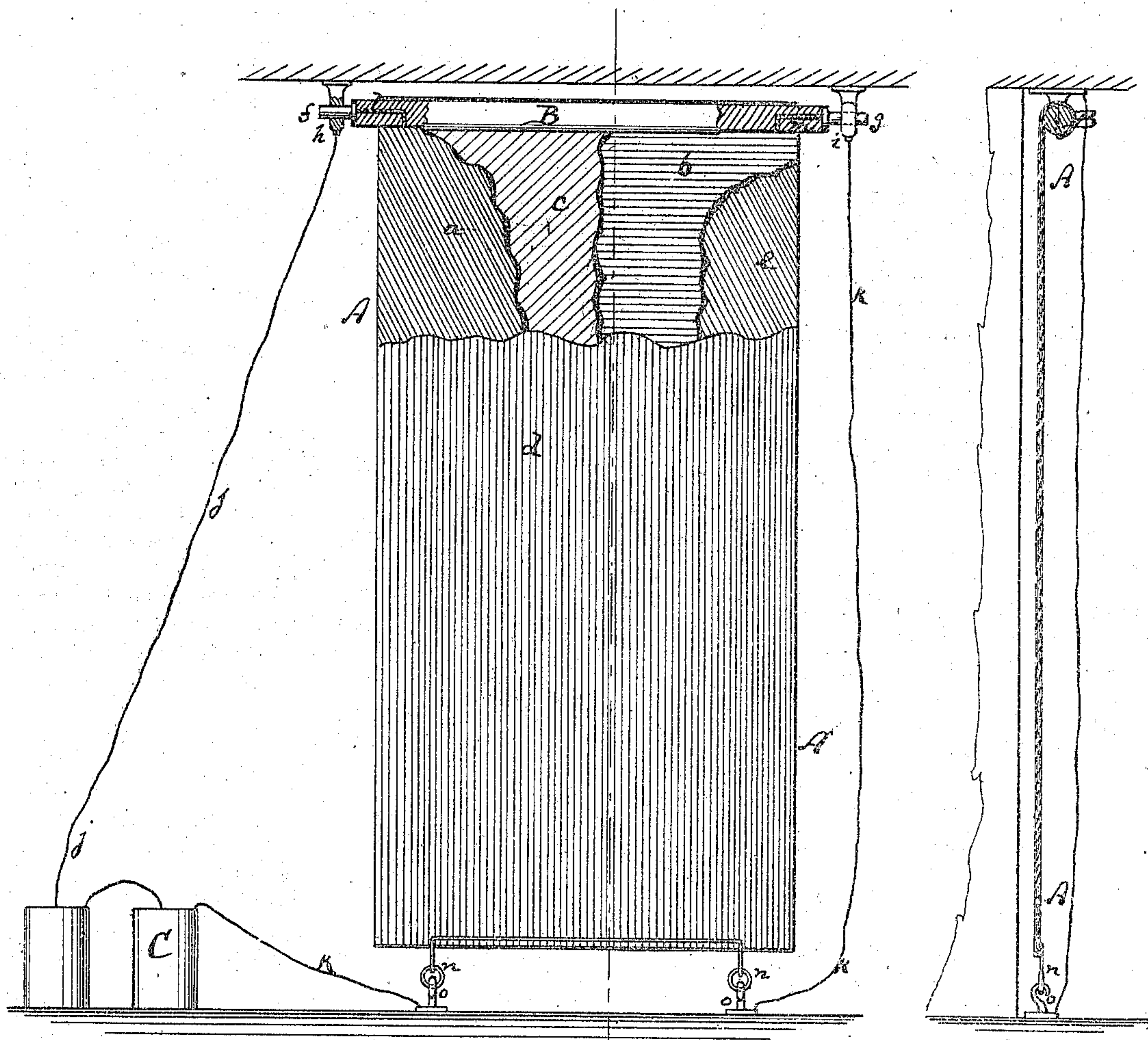
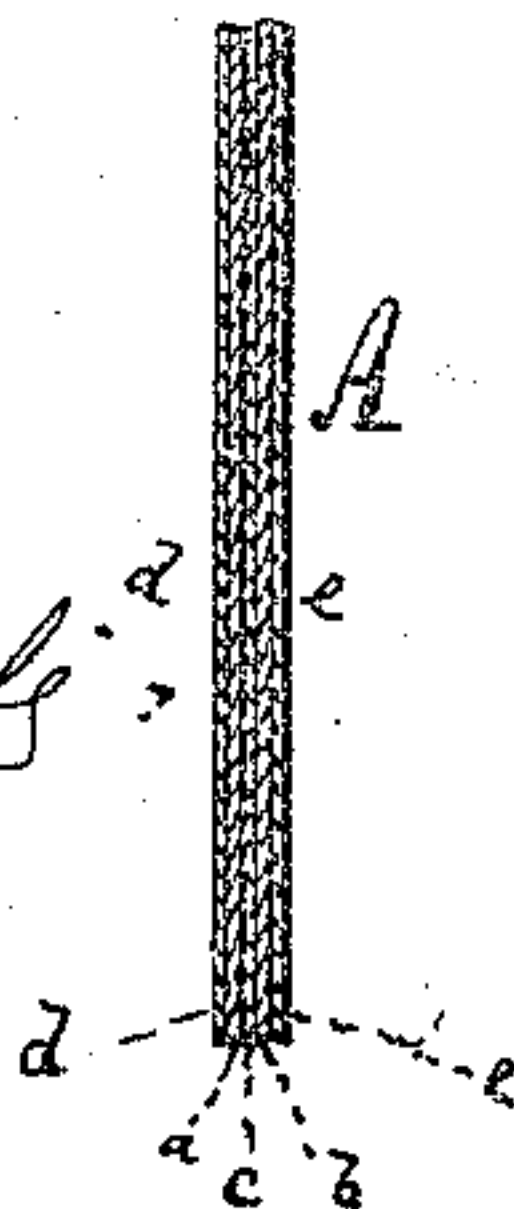


Fig. 3.

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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 ELECTRO-MAGNETIC BURGLAR-PROOF CURTAINS.

Specification forming part of Letters Patent No. 120,875, 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 Improved Electro-Magnetic Burglar-Proof Curtain; 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 front view of our improved electro-magnetic curtain. Fig. 2 is a transverse vertical section of the same. Fig. 3 is a vertical section of its fabric.

Similar letters of reference indicate corresponding parts.

The nature of our invention consists in the arrangement of a burglar-proof curtain to be suspended in front of safes, vaults, behind windows, or in other suitable places, and connected with an electric alarm apparatus in such a manner that it will, when moved or pierced, cause the alarm to be sounded.

By the use of such curtain a very cheap and most effective guard is obtained, which can, over night, be suspended in front of the things or openings to be protected, while during day time it can be rolled up out of the way or otherwise do the service of ordinary curtains.

The curtain A to be used for this purpose we prefer to make of two thin and pliable sheets, *a b*, of metal, insulated from each other by a pliable non-conductor, *c*, and covered with sheets *d e* of non-conducting material, so that when glued or fastened together they will form a single sheet, substantially as described in the Letters Patent for an electric lining granted to us December 20, 1870. We fasten one end of this sheet A to a non-conducting roller, B, which has

metallic gudgeons *f g* hanging in metallic brackets *h* and *i*, respectively. These brackets are connected by wires *j k* with a battery, C. The metallic gudgeons *f g* are either directly, or by means of short wires or metallic pieces *l* and *m*, respectively, connected with the two metallic sheets *a b*. The lower end of the curtain has one or more metallic rings, *n*, insulated from the sheets *a b*, but metalically connected with each other. These rings are fitted over hooks *o* when the curtain is drawn down. The wire *k* leads from the bracket *i* to the first hook *o*, and is from the last hook continued to the battery, as shown.

Any attempt to enter by cutting through the curtain will, by means explained in our aforementioned Letters Patent of December 20, 1870, cause an alarm to be sounded by the establishment of a complete circuit, while on the other hand any attempt to roll up the curtain or lift the roller B from the brackets will, by entirely breaking the circuit, cause an alarm to be sounded, also as explained in our former patent.

Instead of the sheets *a b* sheets of fine-meshed wire fabric or equivalent pliable conducting material may be used.

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

1. A curtain composed in part of metallic conductor of electricity, to be used substantially as herein specified and described.

2. The metallic gudgeons of the curtain when connected with the battery and with the metallic fabrics *a b* of the curtain, and combined with the metallic lower connections *n o*, substantially as specified.

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