(No Model.)

P. G. HUBERT.

STORAGE WAREHOUSE AND METHOD OF STORING MATERIALS.

No. 372,850. Patented Nov. 8, 1887.

Fig 1.

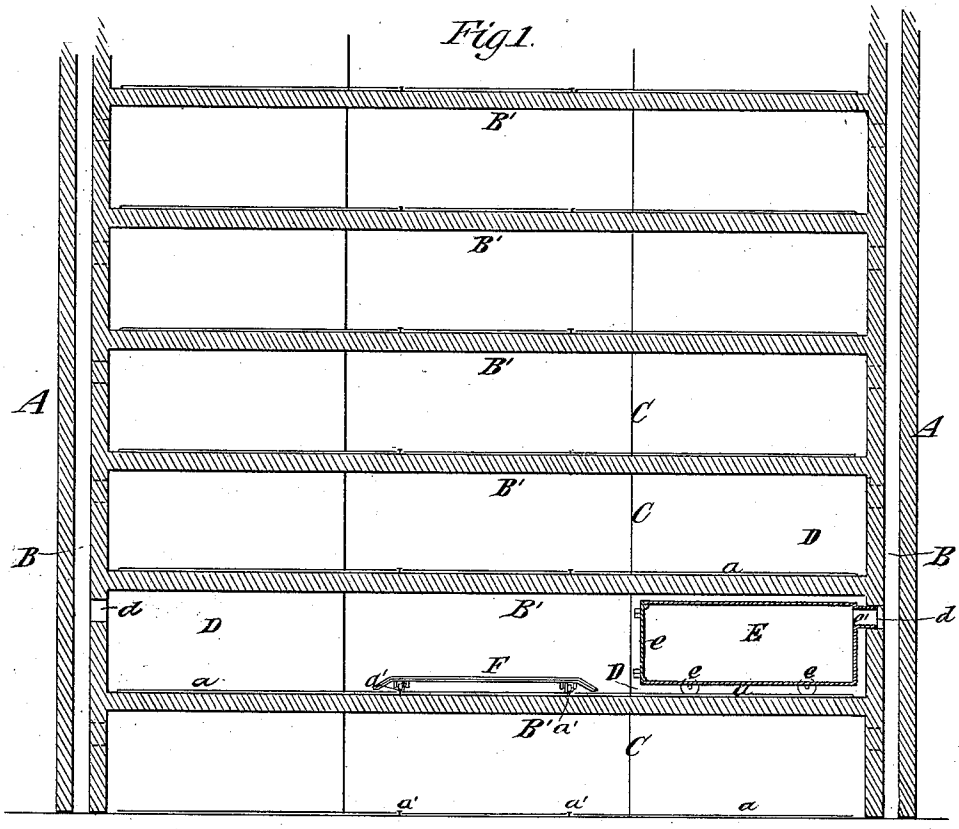
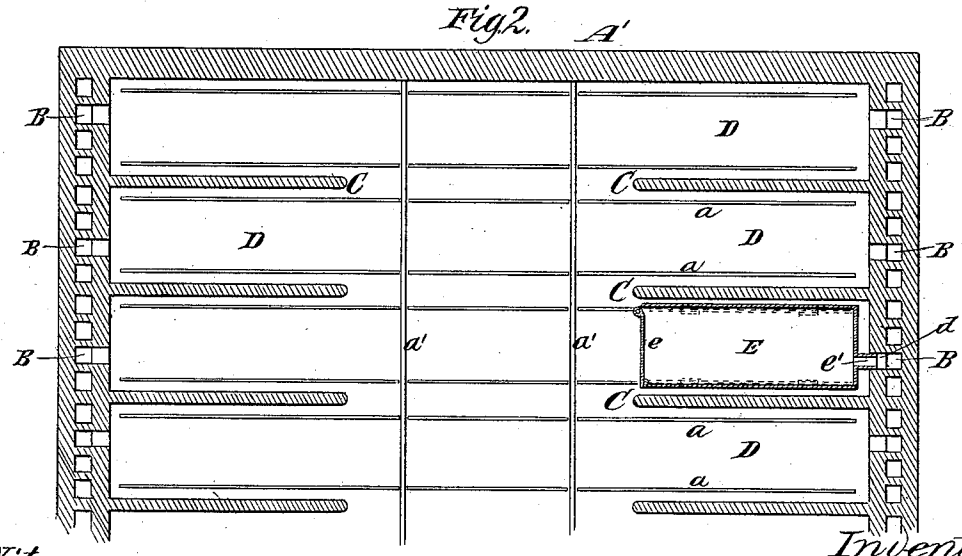


Fig 2.



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UNITED STATES PATENT OFFICE.

PHILIP G. HUBERT, OF NEW YORK, N. Y.

STORAGE-WAREHOUSE AND METHOD OF STORING MATERIALS.

SPECIFICATION forming part of Letters Patent No. 372,850, dated November 8, 1887.

Application filed August 27, 1887. Serial No. 248,042. (No model.)

To all whom it may concern:

Be it known that I, PHILIP GENGEMBRE HUBERT, of the city and county of New York, in the State of New York, have invented a new and useful Improvement in Storage-Warehouses and the Method of Storing Materials, of which the following is a specification.

Attempts have been made to construct fire-proof building for the storage of furniture and other combustible materials, and to store such materials in a fire-proof manner, but have not heretofore resulted in complete success; and the object of my invention is to accomplish these objects by providing for the complete combustion of a limited quantity of furniture or combustible materials when stored in a building, and in which fire may occur, without endangering other furniture or combustible materials which may be stored in the same building, but in separate compartments.

In carrying out my invention I provide a storage-warehouse having its walls constructed to form series of flues, and having its floors or stories divided by fire-proof partitions constructed in a manner to form rooms or large cells, each of which communicates by an opening with one of the said flues, and I combine therewith metal or fire-proof cars or boxes, each of a size to enter a room or cell, and each having a throat or opening which, when the car or box is in its room or cell, is in communication with an opening to a flue. The furniture or other combustible material is stored in specific quantities in these cars or boxes, and if fire occur in the contents of any car or box it will follow that, inasmuch as such car or box is in communication with a flue or chimney, the contents thereof will be burned, as in a stove, but slowly, owing to the lack of proper draft to the car or box, while the contents of cars or boxes which are in adjoining rooms or cells will remain uninjured. It will therefore be seen that in a storage-warehouse constructed as above described and provided with the metal cars or boxes a method of storing furniture and other combustible materials will be carried out, which consists in packing the articles or materials within a closed metal or fire-proof car or box, and then maintaining the car or box in constant communication with a flue or chimney, and such method also constitutes a part of my invention.

In the accompanying drawings, Figure 1 represents a vertical section which represents, arbitrarily, several stories of a storage-warehouse embodying my invention and a car or closed box which is in place in one of the cells or compartments; and Fig. 2 represents a horizontal section and plan of a portion of the warehouse, one of the cars or boxes also being in place.

Similar letters of reference designate corresponding parts in both figures.

A designates the upright opposite walls of the warehouse, and A′ the other walls thereof. The walls A may form the sides of the warehouse, which is constructed, in a substantial manner, of brick or analogous material, and the walls A are double and divided by partitions, so as to form within the walls A a series of flues, B, which may be twelve inches square, or thereabout, and extend to the top of the building.

B′ designates the floors of the warehouse, which I have shown in an arbitrary manner, but which will usually be of any fire-proof construction—as, for example, that consisting of iron beams and brick arches between them, and which is well known. These floors may be about seven feet high, (more or less,) as may be found desirable, and the stories between the floors are divided by vertical partitions C, which are also constructed in a fire-proof manner and which form between them small rooms or large cells D. I have shown in the present example of my invention a series of such cells or rooms D on each side of the warehouse, with a space between sufficiently wide to constitute a central hall, and each cell or compartment communicates by an opening, *d*, with a flue, B.

With the cells or compartments of the warehouse I combine metal or fire-proof boxes or cars E, which are of a size to easily enter the cells or compartments, and which are mounted upon wheels *e*, so as to run upon tracks *a* in the cells or compartments. I have also represented tracks *a′*, extending longitudinally of the building, and on which may run a wheeled platform, F, for the support of the cars or boxes E. It will be observed that each car or box E is constructed with a door, *e*, through which it may be filled, and after it is so filled the door may be closed and secured and the

car or box E run into its cell or compartment D, and when in its cell or compartment D a throat, *e'*, with which the car is provided, communicates through an opening, *d*, with one of the flues B.

I have only shown in the drawings one car or box E as inserted in its compartment D; but it will be understood that each of the other cells or compartments is provided with a corresponding car or box. After a car or box E is filled with furniture or other combustible material and placed in its cell or compartment D, it is maintained in constant communication through its throat *e'* with the flue B, and in case fire occur in the contents of the car or box its contents will be burned, as in a stove, and slowly, inasmuch as there is no proper provision for the entrance of air to the car or box, while the contents of the cars or boxes in adjoining cells or compartments, both above, below, and at the sides of the one containing the burning material, will be uninjured.

In transferring the furniture of residences to a storage-warehouse the cars or boxes E may be taken to the residences upon suitable trucks, and after being filled may be locked up, and when the packed car or box reaches the storehouse it may be raised by an elevator to the desired story and placed upon a platform car or truck, F, and moved lengthwise of the building, and when the desired cell or compartment D is reached the car or box E may be transferred thereto and placed in communication with the flue B.

The partitions C may be constructed of fireproof blocks, brick walls, or any other suitable material, to render them substantially fireproof.

Although, to enable my invention to be fully understood, I have above described that the cars or boxes E may be placed upon suitable trucks and taken to the residence, where they are loaded with furniture, and after they arrive at the warehouse may be removed bodily from the trucks and placed in the cells or compartments, I have not here attempted to claim such a novel construction of a furniture-van, as the same forms the subject matter of my application, Serial No. 252,812, filed October 19, 1887.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A storage-warehouse having its walls constructed to form series of flues, and having its floors or stories divided by fire-proof partitions to form rooms or large cells, each of which communicates by an opening with a flue, in combination with metal or fire-proof cars or boxes, each of a size to enter a room or cell, and each having a throat or opening which, when the car or box is in its room or cell, is in communication with the opening to a flue, substantially as herein described.

2. The method of storing furniture and other combustible materials, consisting in packing the articles or materials within a closed metal or fire-proof car or box, and then maintaining the car or box in constant communication with a flue or chimney, substantially as herein described.

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