

(No Model.)

J. D. BAKER.

MEANS FOR PREVENTING SPREADING OF FIRE THROUGH BUILDINGS.

No. 533,856.

Patented Feb. 12, 1895.

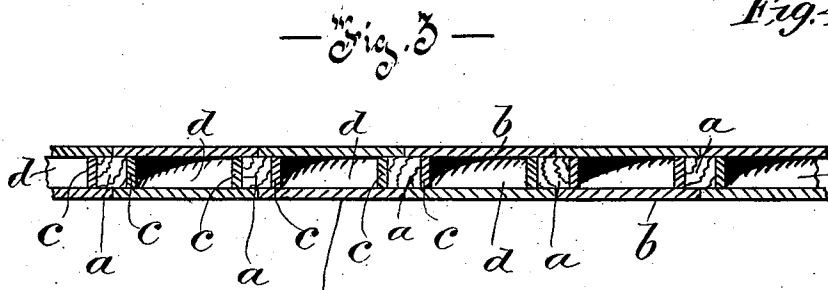
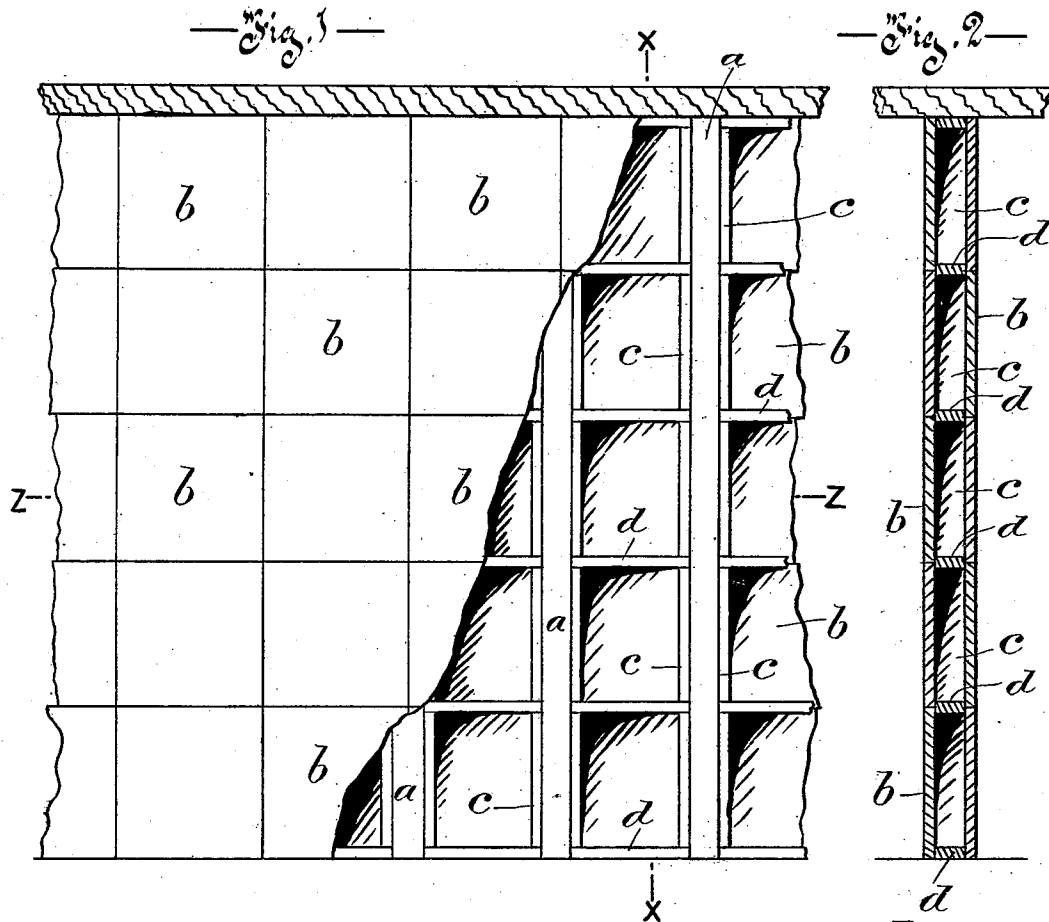
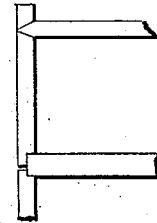


Fig. 4.



Witnesses

*[Signature]*

*R. A. K. K. K.*

Inventor  
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By his Attorney

*Wm. W. W.*

# UNITED STATES PATENT OFFICE.

JAMES D. BAKER, OF MONTREAL, CANADA.

MEANS FOR PREVENTING SPREADING OF FIRE THROUGH BUILDINGS.

SPECIFICATION forming part of Letters Patent No. 533,856, dated February 12, 1895.

Application filed November 5, 1894. Serial No. 527,985. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES DAY BAKER, of the city of Montreal, in the district of Montreal and Province of Quebec, Canada, have  
5 invented certain new and useful Improvements in Means for Preventing Spreading of Fire Through Buildings; and I do hereby declare that the following is a full, clear, and exact description of the same.

10 This invention has for its object to prevent the spread of fire throughout buildings, containing hollow walls or wooden partitions composed chiefly of vertical studding, which stud-  
15 ding when covered on the outside by the usual lath and plaster or plaster board has the effect of forming dangerous flues through which the fire is rapidly spread.

The invention consists in lining the inside surfaces of the studding with plaster board  
20 or like fire resisting material and also in arranging lengths of the same material transversely between the studs so as to obstruct the vertical flue producing space thus preventing draft therethrough.

25 For full comprehension however of the invention, reference must be had to the annexed drawings forming a part of this specification, in which like symbols indicate corresponding parts, and wherein—

30 Figure 1 is a vertical elevation of a partition with plaster board facing broken away to disclose the studding and its protecting covering; Fig. 2, a vertical section of same on line *xx* Fig. 1, and Fig. 3, a horizontal section  
35 of same on line *ZZ* Fig. 1, Fig. 4 being a detail view showing the edges of the lengths beveled or mortised to interlock.

*a a* are the vertical wood studs of a partition, and *b* the usual sheets of plaster board  
40 covering for the outside surfaces of same.

*c* are lengths of plaster board of the same width as the inside faces of the studs and adapted to be set over such faces to cover  
45 same, while *d* are lengths of the same fire resisting material of a similar width and long enough to fit horizontally between the studs.

To line the studding a transverse length *d*  
50 is laid upon the flooring, two side lengths placed in vertical position, a second transverse length laid upon the tops of these and so on, the meeting edges of the lengths being,

if desired, either beveled or mortised so that when brought together vertical lengths can be held in place without any necessity for  
55 nailing to hold them in position.

Besides preventing the spread of fire through the vertical flue space, it will also be apparent that the transverse obstructing lengths will interfere with the freedom of rats and like ver-  
60 min through the hollow walls of a building.

What I claim is as follows:

1. As a means for preventing the spread of fire through buildings, the combination with the studding of the hollow walls thereof, of plain flat lengths of fire resisting material ap-  
65 plied directly to the inside faces of such studding.

2. As a means for preventing the spread of fire through buildings having hollow walls, plain flat sections or lengths of plaster board  
70 disposed transversely of the hollow spaces in such walls to obstruct the passage of fire through same.

3. As a means for preventing the spread of fire through buildings, the combination with  
75 the vertical studding of the hollow walls thereof,—of plain flat vertical lengths of fire resisting material applied directly to the inside faces of such vertical studding, and plain flat transverse lengths of the same material ex-  
80 tending between the vertical studs and having their ends inserted between the ends of the vertical lengths for the purpose set forth.

4. As a means for preventing the spread of fire through buildings having hollow walls,  
85 the combination with the combustible vertical studding thereof, of the plain flat vertical lengths *e* and the plain flat transverse lengths *d* of plaster board arranged substantially as described.

5. As a means for preventing the spread of fire through buildings having hollow walls, the combination with the combustible verti-  
90 cal studding thereof, of the vertical lengths *e* and the transverse lengths *d* of fire resisting material with their meeting edges formed to interlock for the purpose set forth.

Montreal, 26th day of October, 1894.

JAMES D. BAKER.

In presence of—

WILL. P. McFEAT,  
FRED. J. SEARS.