(No Model.)

J. O. WHITENACK.

WALL.

No. 600,392. Patented Mar. 8, 1898.

FIG. 1.

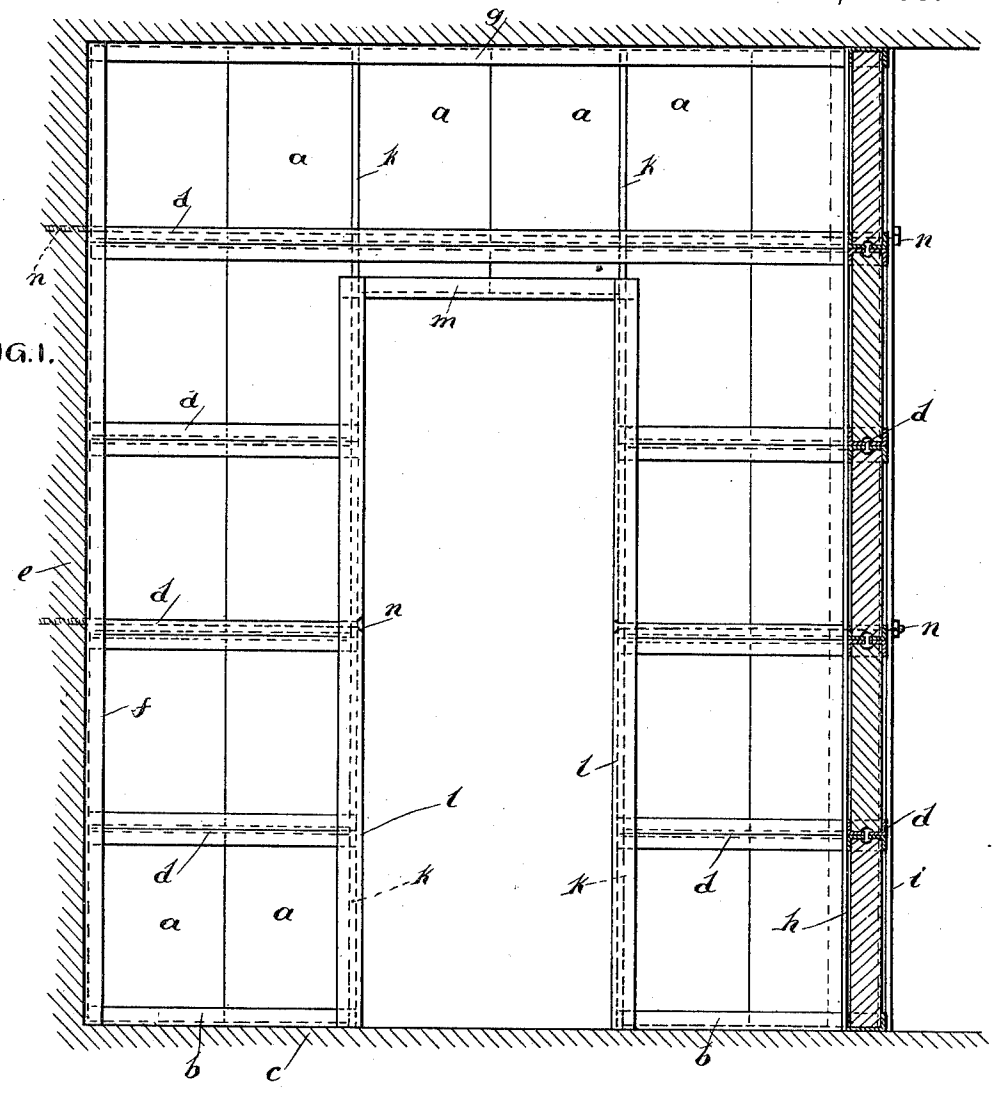


FIG. 2.

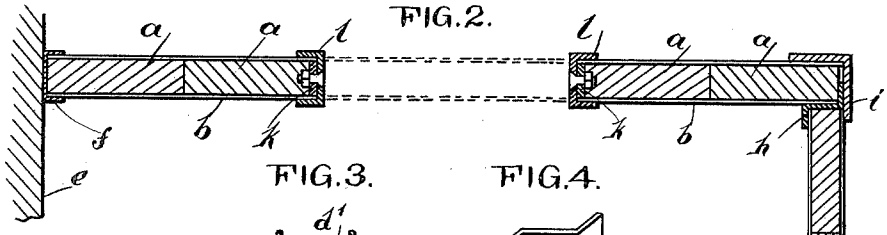


FIG. 3.

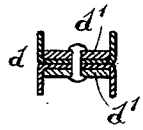
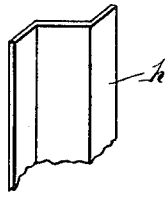


FIG. 4.



WITNESSES:

Donn Twitchell

Isaac Bruff

INVENTOR

J. O. Whitenack

BY

Munn & Co

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN ODELL WHITENACK, OF NEW YORK, N. Y.

WALL.

SPECIFICATION forming part of Letters Patent No. 600,392, dated March 8, 1898.

Application filed September 22, 1897. Serial No. 652,530. (No model.)

To all whom it may concern:

Be it known that I, JOHN ODELL WHITENACK, of New York city, in the county and State of New York, have invented a new and Improved Wall, of which the following is a full, clear, and exact description.

This invention is an improvement in the art of building fireproof structures, the invention consisting in certain framing for holding fireproof blocks composing the walls or partitions of the building.

This specification is the disclosure of one form of my invention, while the claims define the actual scope of the invention.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is an elevation of my invention with a part in section. Fig. 2 is a horizontal section. Fig. 3 is a detail sectional view of one of the I-beams, and Fig. 4 is a detail view of one of the corners of the Z-beam.

In constructing the wall or partition I provide a series of composite blocks *a*, arranged in horizontal tiers, the bottom tier being rested in channel-irons *b*, laid on the floor *c*. The remaining tiers are respectively supported on horizontal I-beams *d*, each composed of two channel-irons laid back to back and bolted or otherwise secured together. If it be desired, the I-beams may be strengthened by wrought-iron plates *d'*, as illustrated in Fig. 3. The edges of the blocks *a* next to a vertical surface, such as the surface indicated at *e* in the drawings, are laid in a vertical channel-iron *f*, similar to the channel-iron *b*. The upper edges of the blocks next to the ceiling are laid in a channel-iron *g*, also similar to the channel-iron *b*.

The meeting edges of two of the walls which form a corner are engaged by a vertically-extending Z-beam *h*, the web of which runs perpendicular to the flanges, so that the corner is a right-angle one. If the corner be an obtuse or acute angle, the Z-beam may be shaped accordingly. The corner is also flanked by a vertically-extending L-beam *i*.

Doors are constructed by running vertically-extending face-plates *k* along the side edges of the door-openings, and in closing said plates, as well as the edges of the blocks, by side channel-irons *l*. The top of the door-opening is provided with a channel-iron *m*, running horizontally between the channel-irons *l*. The face-plates *k* extend upwardly to the ceiling *g*, as shown in Fig. 1, said face-plates running between contiguous blocks *a*. Tie-rods *n* are extended through the wall at suitable points. These rods may be either fastened to the surface *e* or they may be provided with heads and nuts which engage with parts of the wall.

I do not limit myself to the material employed in constructing this invention.

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

1. A wall having separable blocks, I-beams running horizontally between the horizontal rows of blocks, a Z-beam engaging contiguous edges of the blocks, and an L-beam flanking the said contiguous edges.

2. A wall having two parts with meeting edges, a Z-beam engaging said edges, and an L-beam flanking the said edges, the Z-beam extending between the edges and the L-beam and engaging the outer sides of the said parts.

3. An I-beam formed of two channel-irons, the webs of which are secured together face to face, and wrought-iron plates engaging the webs to strengthen the same.

4. A wall having separable blocks, a facing-plate extending along one edge of the wall, and a channel-iron secured to said facing-plate and inclosing the same and also inclosing the contiguous portion of the wall.

JOHN ODELL WHITENACK.

Witnesses:
ISAAC B. OWENS,
JNO. M. RITTER.