No. 861,215. PATENTED JULY 23, 1907.

B. J. KAHN.

PARTITION FOR FIREPROOF BUILDINGS.

APPLICATION FILED MAY 2, 1907.

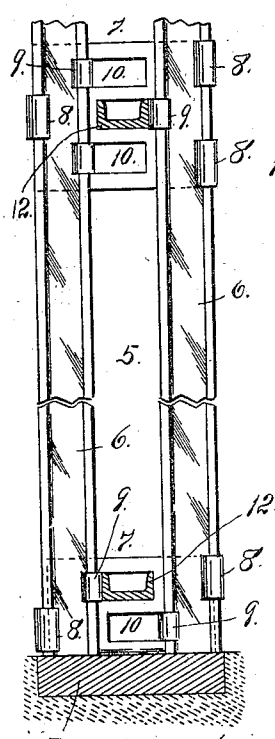


Fig. 1.

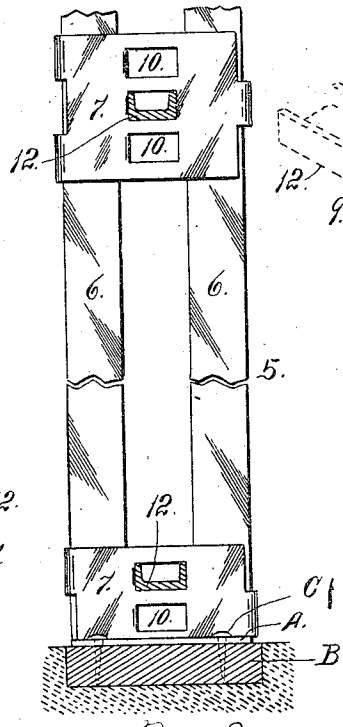


Fig. 2.

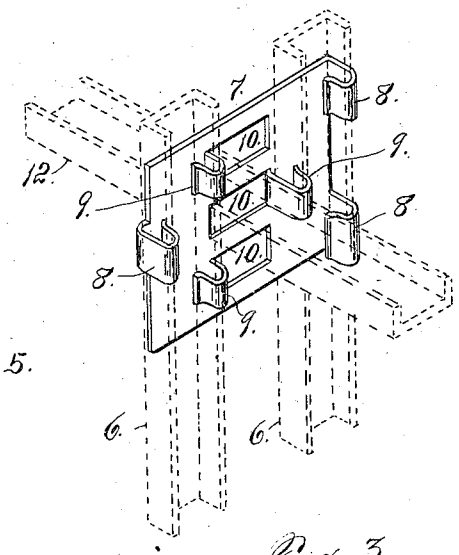


Fig. 3.

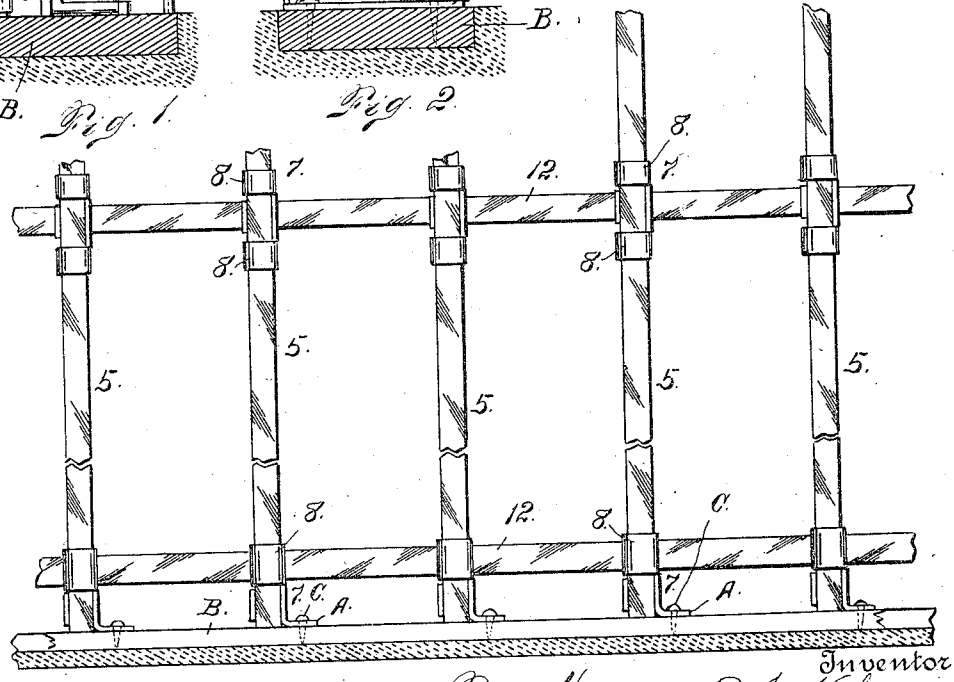


Fig. 4.

Witnesses:
Otto E. Hoddick.
Dena Nelson.

Inventor
B. J. Kahn.
By Atty
Attorney

UNITED STATES PATENT OFFICE.

BERNARD J. KAHN, OF DENVER, COLORADO.

PARTITION FOR FIREPROOF BUILDINGS.

No. 861,215 Specification of Letters Patent. Patented July 23, 1907.

Application filed May 2, 1907. Serial No. 371,515.

To all whom it may concern:

Be it known that I, BERNARD J. KAHN, a citizen of the United States, residing in the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Partitions for Fireproof Buildings; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in partitions for fireproof buildings and consists of a special construction of frame work for these partitions, all of which will be fully understood by reference to the accompanying drawing in which is illustrated an embodiment thereof.

In this drawing, Figure 1 is a vertical cross section taken through the frame work of the partition. Fig. 2 is a similar view looking in the opposite direction. Fig. 3 is a fragmentary perspective view of the partition showing the channel bars both vertical and horizontal in dotted lines, and the interlocking clip in full lines. Fig. 4 is a fragmentary side view of the metallic frame work of my improved partition structure.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate a single member of the partition, the same being composed of a pair of vertically disposed channel bars 6 interlocked and suitably spaced by metallic clips 7. Any desired number of these clips may be used for the two channel bars, the number of clips depending upon the height of the partition. Each clip 7 is composed of a metal plate whose body portion is adapted to engage the smooth or plain surface of the channel bars to be connected. This plate is provided with lips 8 formed on its edges and formed into hooks which engage t outer flanges of the two connected channel bars. As shown in the drawing one edge of the clip plate is provided with two of these hook-shaped lips and the other edge with one, the lips of the opposite edges being staggered. This plate is also provided with a number of similar lips 9 punched out of the plate leaving openings 10, the lips 9 being bent outwardly to form hooks which engage the inner flanges of the two channel bars. As shown in the drawing two of these lips engage the inner flange of the channel bar which is engaged by the single edge lip of the clip; while the single lip 9 engages the inner flange of the channel bar whose outer lip is engaged by the two edge lips 8 of the clip. By virtue of this construction of clip, the two channel bars are locked securely and rigidly together to form the partition member. The lowermost clip 7 may be constructed in the same manner as the clip already described, but a portion of the lowermost clip is bent outwardly as shown at A in Figs. 2 and 4 and secured to a base part B by means of suitable fastening devices C. This clip also has lips which engage the flanges of the channel bars and serves to connect or interlock the latter, in addition to aiding in the fastening of the partition member to the floor or base of the structure. In forming one of the hook-shaped lips 9, of the clip 8, a central opening 10 is formed in the plate constituting the body of the clip. The clips of the various partition elements 5, are arranged in horizontal alinement whereby their central openings 10 are made to register. Through these openings of the various series of horizontally alined clips, are passed horizontally disposed channel bars 12 which serve to connect the various partition elements with each other longitudinally.

From the foregoing description the use of my improved structure will be readily understood. The channel bars of the partition elements 5 are spaced with reference to the width or thickness of the wall while the elements themselves are spaced longitudinally in the wall to give the desired or necessary strength as will be readily understood. This structure forms a frame work or support for any suitable matallic sheeting (not shown) which it is desired to employ for the purpose of supporting the plaster forming the outer surface of the partition walls.

Having thus described my invention, what I claim is:

1. A partition frame work for fireproof buildings, comprising a series of studding elements, each composed of a pair of channel bars, and clips consisting of plates engaging the plain face of the channel bars and having lips bent to engage the inner and outer flanges of the said bars whereby the latter are securely interlocked, the body portions of the said clips having openings, and horizontally disposed bars passed through the openings of the said clip plates of the various studding elements whereby the said elements are connected and supported, substantially as described.

2. A fireproof partition element consisting of a pair of channel bars suitably spaced to occupy a transverse position in the partition, the bars being in edgewise alinement, and an interlocking clip composed of a plate engaging the flat side of the said bars and having hook-shaped lips integral with the plate and bent to engage the inner and outer flanges of the bars, substantially as described.

3. A channel-bar-interlocking clip consisting of a plate having hook-shaped lips formed on its opposite edges, and intermediate hook-shaped lips formed by punching out the metal of the central portion of the plate, the hook extremities of the edge lips being bent inwardly and the hook extremities of the centrally located lips being bent outwardly, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

BERNARD J. KAHN.

Witnesses:
A. J. O'BRIEN,
ESTHER KAHN.