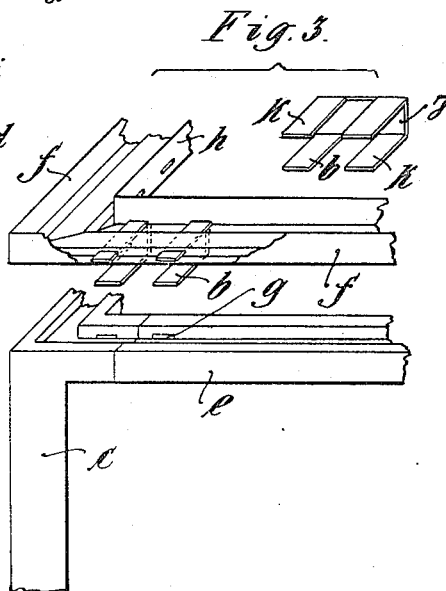
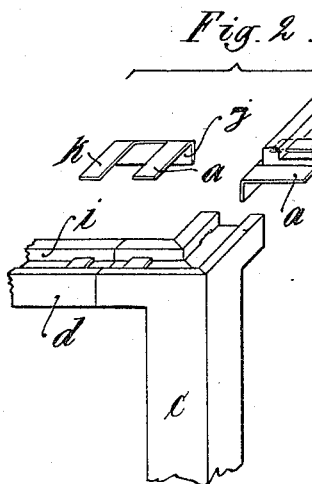
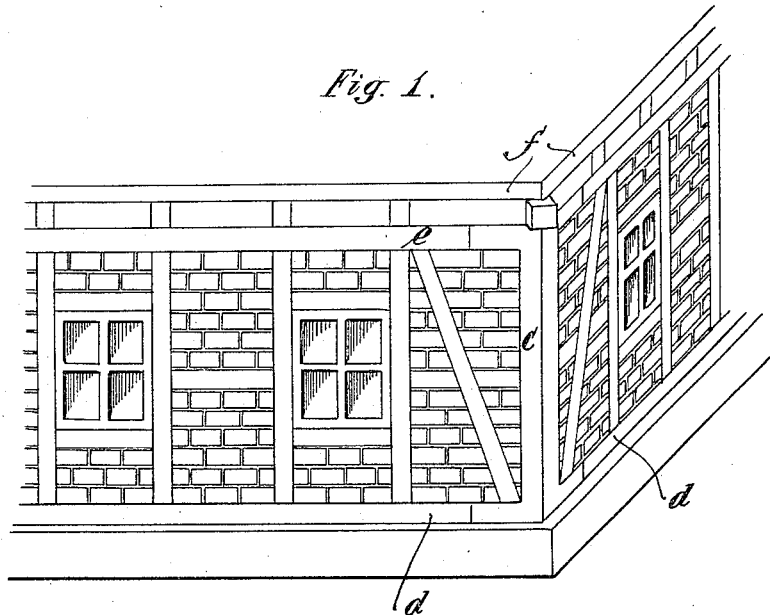


A. RICHTER.  
 BUILDING BOX FOR ERECTING FRAMEWORK STRUCTURES.  
 APPLICATION FILED NOV. 3, 1914.

1,208,834.

Patented Dec. 19, 1916.



*Witnesses:*  
 H. Hogg.  
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 Atty.

# UNITED STATES PATENT OFFICE.

ADOLF RICHTER, OF RUDOLSTADT, GERMANY.

BUILDING-BOX FOR ERECTING FRAMEWORK STRUCTURES.

1,208,834.

Specification of Letters Patent.

Patented Dec. 19, 1916.

Application filed November 3, 1914. Serial No. 870,086.

To all whom it may concern:

Be it known that I, ADOLF RICHTER, subject of the German Emperor, residing at 56 Schwarzburger street, Rudolstadt, Thüringen, Germany, have invented certain new and useful Improvements in Building-Boxes for Erecting Framework Structures, of which the following is a specification.

The present invention relates to a building box for erecting framework structures in which a very simple and yet strong coupling of the cross-beams to each other and with the corner pieces, and of two cross-beams over each other is made possible, so that several stories may be built, one above the other. By a special construction of the web of the cross-beams it is further possible to evenly fill up the framework with bricks.

The improvement according to the present invention is illustrated in the accompanying drawing.

Figure 1 is a perspective view. Fig. 2 shows a single connection member in perspective. Fig. 3 shows a double connection member in perspective.

The members  $d, e, f$  employed as cross-beams are of a U-shaped section, the web being again slightly indented in a U-shaped manner so that auxiliary flanges  $i, i^1$  are thus formed. The corner pieces  $c$  serve to couple the horizontal cross-beams, which border each story of the structure at top and bottom of said story. These cross-beams each carry at both ends two arms at right angles to each other of the same section as the members  $e$ . All the U-shaped members have slots  $g$  at a given distance from their ends, said slots penetrating the one main flange  $h$  and the two inner smaller flanges  $i, i^1$  so that the main flange  $h$  of the one outer side is not pierced and a coupling member  $a$  or  $b$  inserted into the slots will neither project on the outer nor on the inner side of the web. In consequence thereof the web forms a straight smooth surface on the outside as well as on the inside thereof, so that the bricks may be evenly placed from the inside.

$a$  is the single connecting or coupling member, consisting of a pair of coupling ears  $k$  bent off at right angles from a side

piece  $j$ , the distance between the said ears corresponding with the pitch of the slots  $g$  in the beam members.

$b$  is a double coupling member, consisting of two pairs of ears  $k$ . According to the height of the side piece  $j$  carrying the coupling ears  $k$  the cross-beams  $d, e$  are laid upon each other or a gap remains between them, into which the bricks may be placed. For coupling a corner member  $c$  with the cross-beam  $d$  or  $e$ , the two are laid one against the other, and the single coupling member  $a$  is then inserted into the slots  $g$  of both members.

The double member  $b$  is employed when two cross-beams must be placed one above the other, either directly adjacent or with an intervening layer of bricks. When two stories are to be constructed over each other two corner members  $c$  are coupled over each other by means of coupling members  $b$  and the arms of the same are coupled together by cross-beams  $d, e$ .

I have shown an embodiment of my invention, but it is clear that changes might be made in the details thereof without departing from the spirit of my invention as defined in the following claims:

1. In a building, building elements comprising spaced U-shaped members connected by a web at the ends of the adjacent inner arms of the members, registering slots passing through one of the outer arms, and through said inner arms, the slots in said outer and inner arms being on the same straight line, and coupling members having coupling ears, the coupling ears of said coupling members being adapted to pass through the said slots of adjacent building elements, said coupling ears passing between the connecting portions of said U-shaped members and the connecting web.

2. In a building, building elements comprising spaced and inverted U-shaped members connected by a web at the ends of the adjacent inner arms of the members, the outer arms of the members being longer than the inner arms, registering slots passing through one of the outer arms and through said inner arms, the slots in said outer and inner arms being on the same

straight line, and coupling members having  
coupling ears, the coupling ears of said  
coupling members being adapted to pass  
through the slots of adjacent building ele-  
5 ments, said coupling ears passing below the  
connecting portions of said U-shaped mem-  
bers and above the connecting web.

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

ADOLF RICHTER.

Witnesses:

OTTO KÜCHLER,  
N. MAX BLÜTHNER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."