

N° 5832



A.D. 1914

(Under International Convention.)

Date claimed for Patent under Patents and Designs Act, 1907, being date of first Foreign Application (in Germany), } 8th Mar., 1913

Date of Application (in the United Kingdom), 7th Mar., 1914

At the expiration of twelve months from the date of the first Foreign Application, the provision of Section 91 (3) (a) of the Patents and Designs Act, 1907, as to inspection of Specification, became operative

Accepted, 30th July, 1914

COMPLETE SPECIFICATION.

Improvements in and relating to Toy Building-outfits.

We, the Firm F. AD. RICHTER & CIE., of Rudolstadt, Thuringia, Germany, Manufacturers, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- 5 This invention relates to toy building outfits of the kind in which connecting pieces for imitating the junctions or joints in actual iron structures, are employed. In this kind of building outfit it has been suggested to employ connecting pieces of angle iron formation or doubly bent pieces provided with projections over which holes formed in connecting bars could be fitted and tapered apertures were also provided for fitting over other projections whereby the connecting
- 10 could be arranged at right angles one to the other.

The present invention has for its object to provide an improved toy building outfit and consists substantially in a toy building outfit in which the connecting pieces are provided on different sides with external bent over portions which enable insertion members serving for the reception of transverse struts to be

15 inserted with their abutments or tongue pieces in the said bent over portions and which further permit the introduction of a bar or the like member at right angles to the main connecting piece.

The invention is illustrated by way of example in the accompanying drawings, in which;

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Figures 1, 2 and 3 are side elevations and plan views of three different forms of the principle part of the improved connecting pieces, which are to be used for forming a junction of structural elements such as is shown for instance in

Figure 8.

25 Figures 4, 5 and 6 are side elevations, plan views and end elevations of insertion members.

Figure 7 is a perspective view of a connection piece with an insertion member, and

30 Figure 8 shows a completed junction effected by means of three different kinds of connecting pieces the principal parts of which are shown in Fig. 1.

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As shown in the drawings, the differently shaped principal parts *a*, *b*, *c*, of the connecting pieces are provided with bent-over portions *d*, which are so arranged in relation to each other, that the insertion members *e*, *f*, *g*, may be inserted therein by means of their abutments or tongue pieces *h*. In order to enable the insertion member *f* to be secured in position, the insertion member *e* is provided on one side with a bent-over portion *d*. The part *a* consequently may be inter-connected with *e* and *f*, the part *b* also with *e* and *f*, whereas the part *c* can only be interconnected with *g*. 5

If a branching-off connection is to be made, then first of all the insertion member *e* is hooked into the bent-over portions *d* of the part *a* as shown in Fig. 7. 10 The resilient struts *i* may now be hooked in not only in one direction as shown in Fig. 8, but by joining them up to the insertion member *e* they may be continued at an angle of 90° to the first structure. In order to render possible also a branching-off at an angle of 45°, the insertion member *f* is provided. This member may be inserted in the angle which the part *a* forms with the member *e*. 15

When using this form of construction, the parts *a*, *b*, *c*, may be provided with branches extending in all directions, the distance of the connecting holes reckoned from the centre always remaining constant. Likewise it is rendered possible to perforate the structural part which may be assembled in any desired manner, for the purpose of passing, *e.g.* a shaft therethrough. 20

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. Connecting pieces for use in toy building-outfits for imitating the junctions or joints in actual iron structures, of the type specified hereinbefore, which connecting pieces are provided on different sides with external bent-over portions, which enable insertion members serving for the reception of transverse struts to be inserted with their abutments or tongue pieces in the said bent over portions, and which further permit the introduction of a bar or the like member at right angles to the main connecting piece, substantially as described. 25 30

2. A toy building-outfit comprising connecting members of different configuration, such as claimed in Claim 1.

3. The improved connecting members for toy building-outfits constructed substantially as hereinbefore described and also as illustrated in and by the accompanying drawings. 35

Dated this 7th day of March, 1914.

MARKS & CLERK.

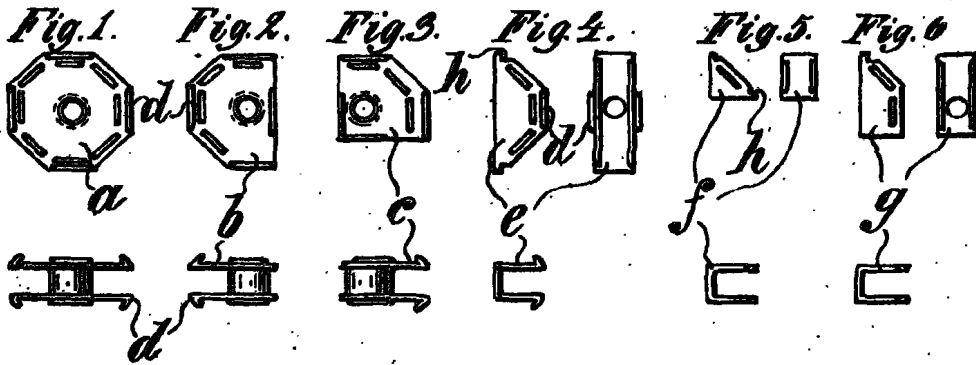


Fig. 7.

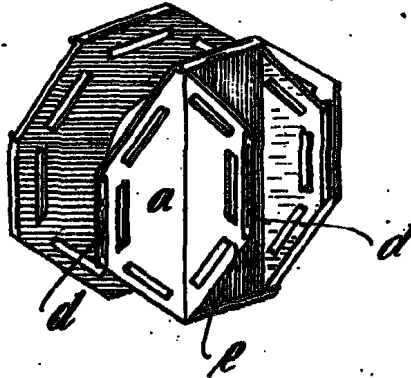
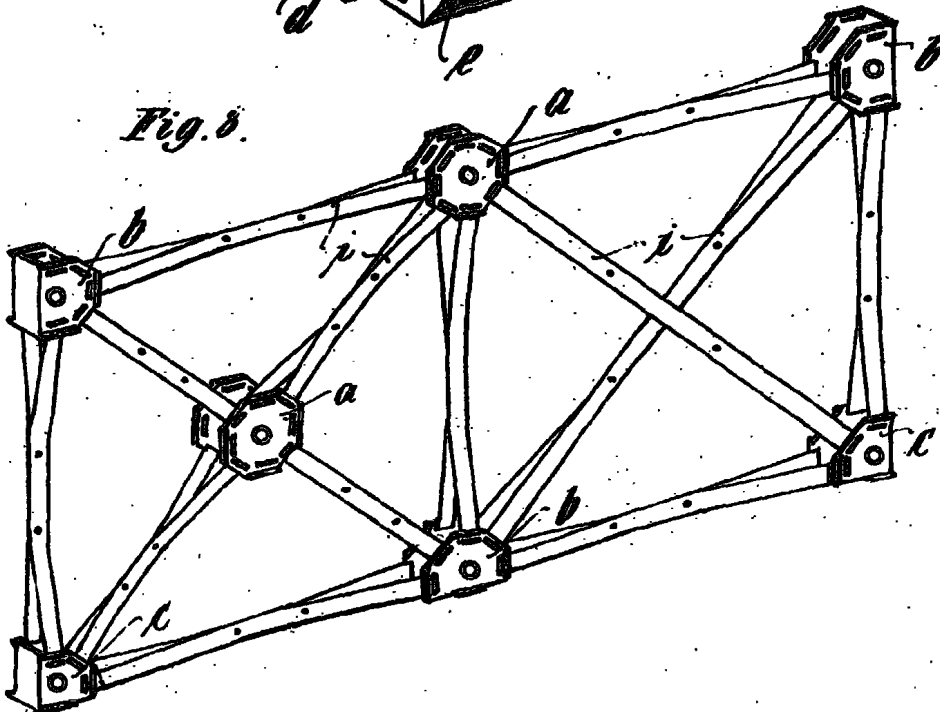


Fig. 8.



[This Drawing is a reproduction of the Original on a reduced scale.]