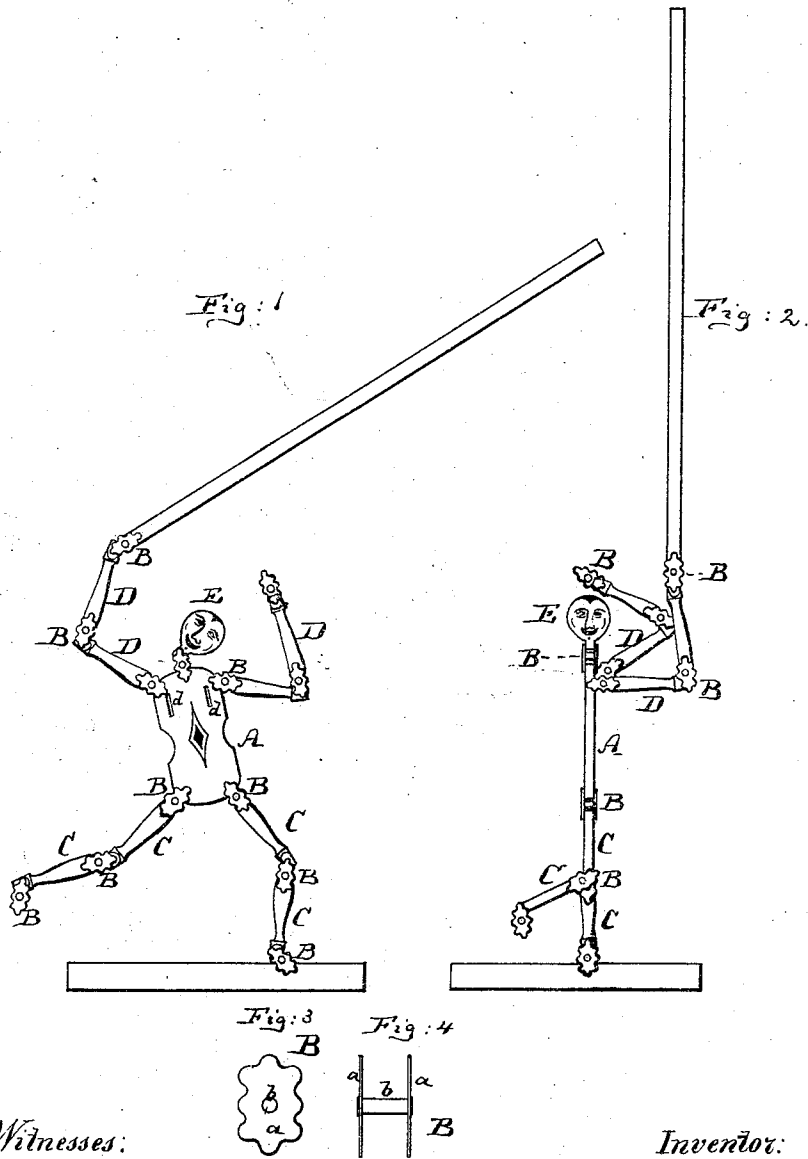


J. A. CRANDALL.
Toys.

No. 153,244.

Patented July 21, 1874.



Witnesses:

Angelus Moraga.
Ernest C. M. Co.

Inventor:

Jesse A. Crandall
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UNITED STATES PATENT OFFICE.

JESSE A. CRANDALL, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN TOYS.

Specification forming part of Letters Patent No. **153,244**, dated July 21, 1874; application filed June 18, 1874.

To all whom it may concern:

Be it known that I, JESSE A. CRANDALL, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Toy Building-Block, of which the following is a specification:

Figures 1 and 2 are side and edge views of my improved toy building-block. Fig. 3 is a detail side view of my improved joint for the same. Fig. 4 is a detail edge view of such joint.

Similar letters of reference indicate corresponding parts in all the figures.

The object of this invention is to produce a joint for connecting building-blocks and the members of toy figures, &c., with a view toward permitting the connection to be at right angles to the face of the supporting-blocks or in line with the same, or in any other suitable angle, as may be desired.

Toy figures have heretofore been made in separate pieces, so that the separate pieces could be connected together in various ways to suit the fancy; but they could not be connected in such a way that, for example, the arms would project forward from the body of the figure, or that the knee-joint would be bent forward or behind the body, the flexibility being heretofore only in the plane of the face of the body.

Now, my invention consists in constructing a joint separate from the members or blocks to be connected therewith, said joint being, by preference, made of metal, and composed of two parallel plates fastened at or near the middle by a cross-pin.

By this construction of the joint the desired result of deflecting the members or blocks either forward or backward in line with the face of the supporting-block can be readily attained.

In connection with this form of joint my invention also consists in perforating the building-block or body of the figure at a given distance from the edge to admit one of the plates of the joint, as hereinafter more fully described.

In the drawing, the letter A represents the body or trunk of the figure, to which, by means of my improved joint B B, the legs C and the arms D and the head E are secured. These joints B B are made of metal or equivalent material, each joint being composed of two parallel plates, *a a*, which are at or near

the middle connected and held together by a pin, *b*.

By preference the plates are made oval, or nearly so, with ornamental or plain edges, as may be desired, the plates *a a* forming, at opposite sides of the pin *b*, clamps for taking hold of and adhering to the trunk A, and to the members C D, in the desired manner, the end of the leg, for example, being introduced between the plates *a a* of the joint, and thereby confined to such joint. The members C can then, by means of the joint, be attached to the trunk or body, supporting it in any desired manner.

From Fig. 2 it will appear that by this form of joint the leg may be deflected backward or forward of the body in any desired way.

In order to do this I prefer to make the end of each member, C D, prismatic—*i. e.*, four-sided—so that it may be placed in either direction between the plates *a a* of the joint.

The head may also be turned by this means, as indicated by reference to Figs. 1 and 2.

In order to project the arms D forward or backward of the body, I provide the latter with slots or apertures *d d*, at a distance from the edge equal to the distance between the two plates *a a*, so that the joint may be applied to the trunk or body at right angles, and thus hold the arm D forward or backward, as described.

I desire it to be understood that I do not confine myself to the peculiar form or style of the joint B shown in the drawing, as it is evident that the same principle of invention can be carried into effect in any suitable form, even by connecting the plates *a a* at the edges or otherwise, or by swiveling them to the pin, or by making them of wire.

I claim as my invention, and desire to secure by Letters Patent—

1. The joint B for a building-block or toy figure, composed of the plates *a a*, connected by the pin *b*, to form double clamps, as described.

2. The body block or figure A, made with slots or apertures *d d* to receive the joint B at right angles, as specified.

J. A. CRANDALL.

Witnesses:

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