

(No Model.)

C. M. CRANDALL.

TOY.

No. 294,590.

Patented Mar. 4, 1884.

Fig: 1.

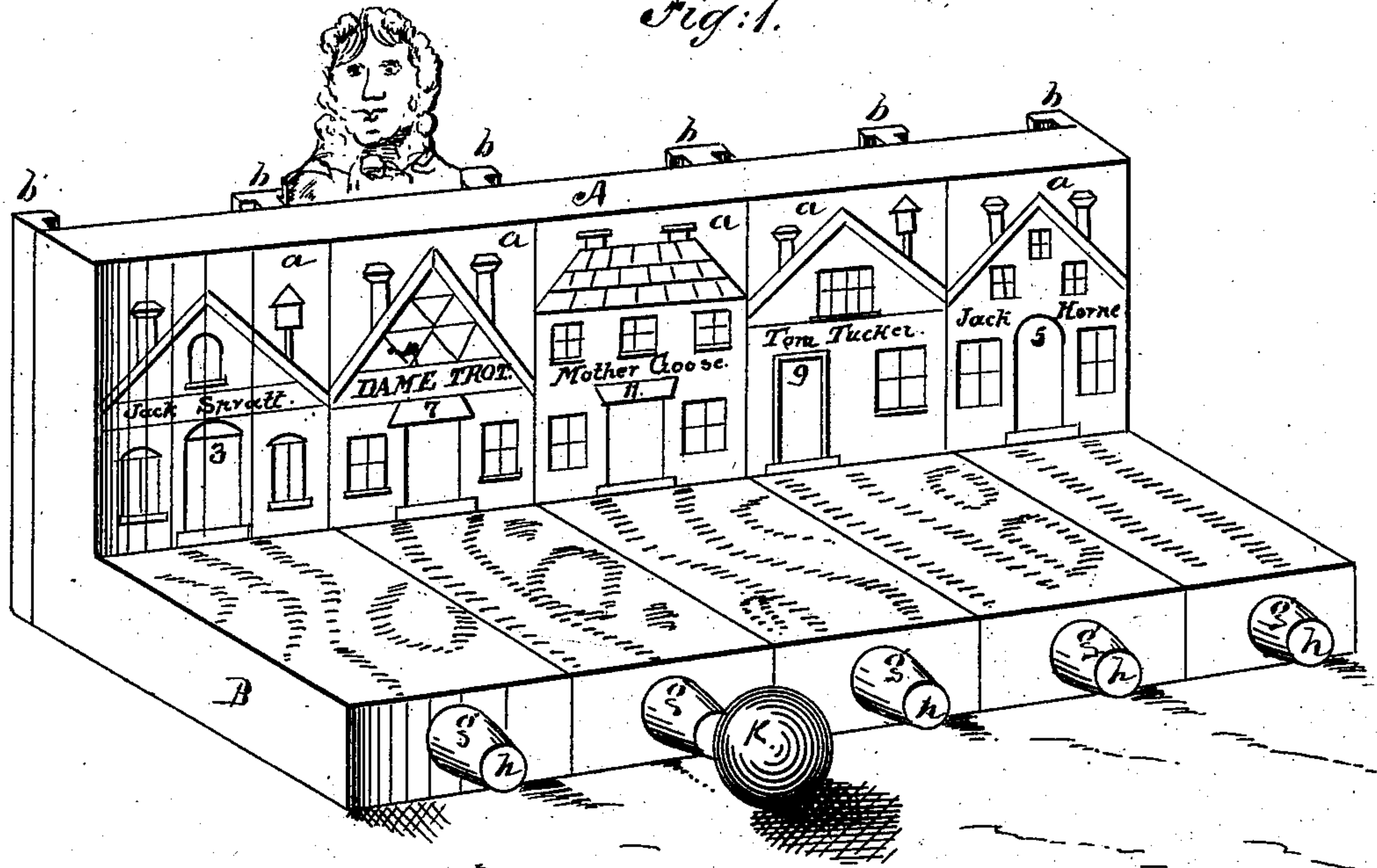


Fig: 2.

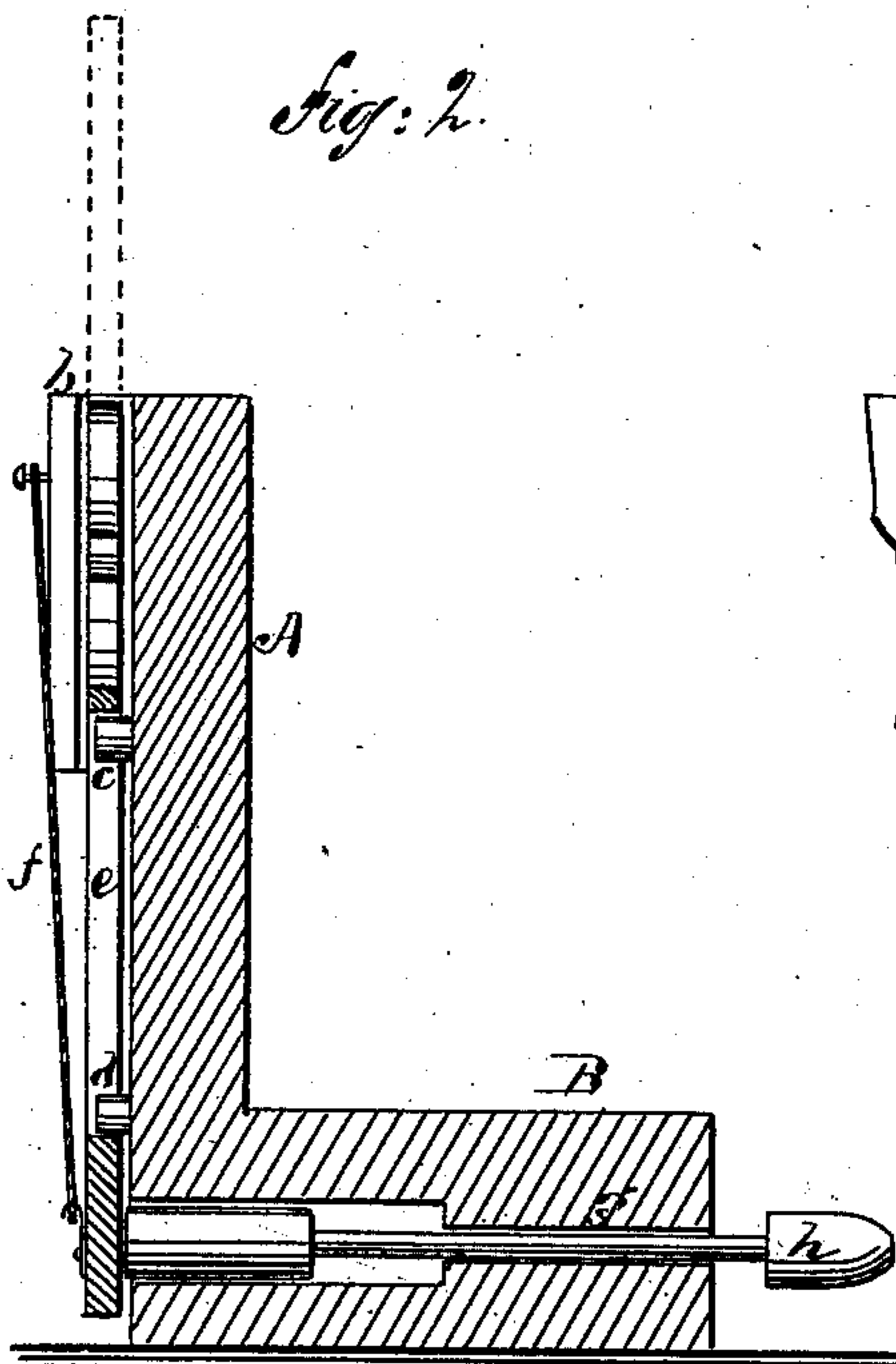
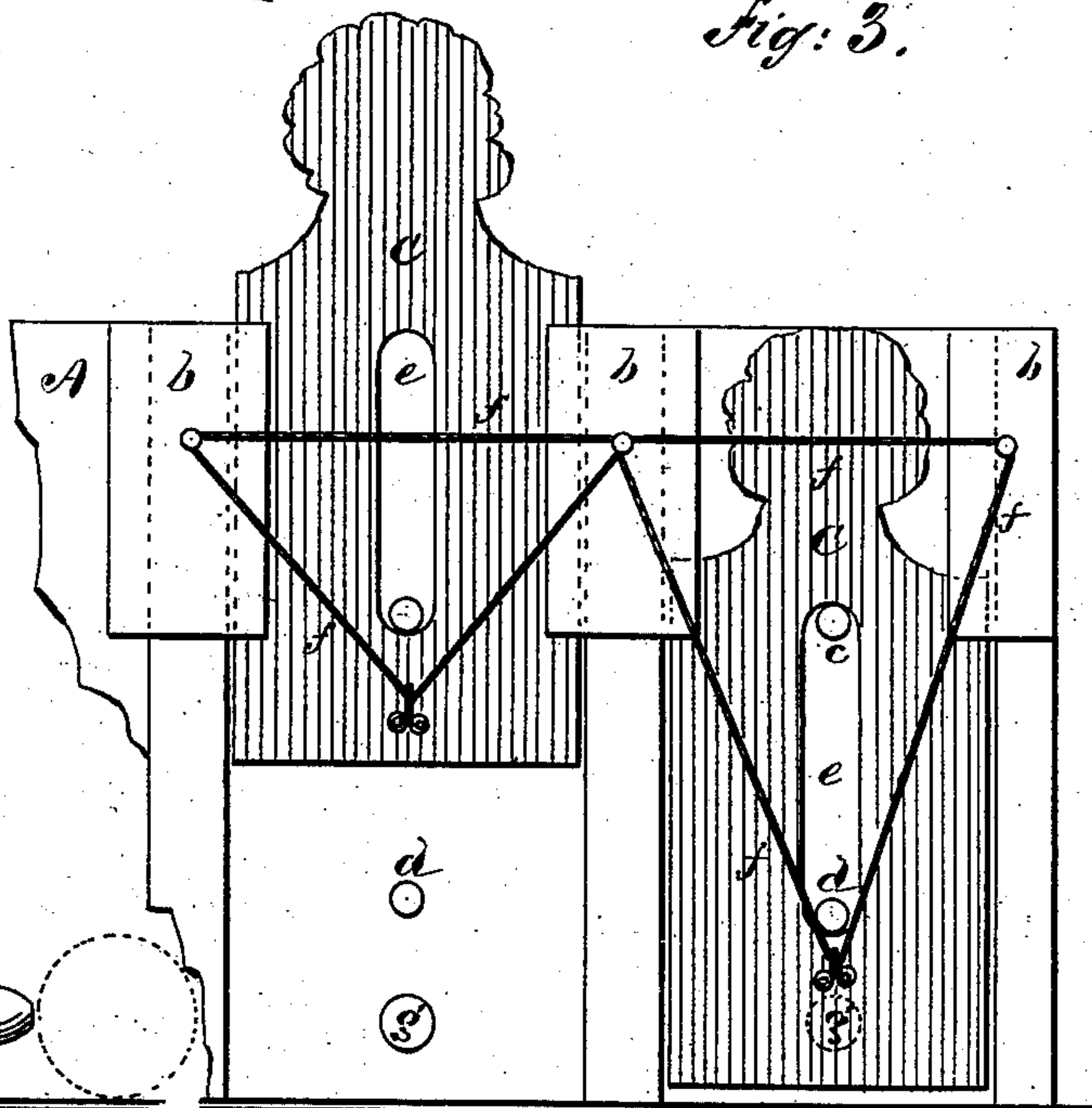


Fig: 3.



WITNESSES:

Chas. N. V. ...
Edw. and R. ...

INVENTOR

Charles M. Crandall

BY

M. P. ...

ATTORNEY

UNITED STATES PATENT OFFICE.

CHARLES M. CRANDALL, OF MONTROSE, PENNSYLVANIA, ASSIGNOR TO FRED W. CRANDALL AND BENJAMIN L. BALDWIN, BOTH OF SAME PLACE.

TOY.

SPECIFICATION forming part of Letters Patent No. 294,590, dated March 4, 1884.

Application filed November 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. CRANDALL, of Montrose, county of Susquehanna, and State of Pennsylvania, have invented a new and useful Improvement in Toys; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying sheet of drawings, forming part of this specification.

This invention is in the nature of an improvement in toys; and the invention consists in a toy constructed, arranged, and combined in the manner hereinafter particularly shown, described, and claimed.

In the accompanying sheet of drawings, Figure 1 is a perspective view of block. Fig. 2 is a cross-section of same. Fig. 3 is a rear side view.

This invention relates especially to that class of toys which instruct and amuse.

In the construction of my toy a right-angled block, A, is secured at right angles to a suitable foundation, B. The block A on its front surface is painted or otherwise ornamented to represent a row of houses, *a*, of any suitable design. The rear surface of this block is provided with sliding guides *b*, a series of upper stop-pins, *c*, and lower catch-pins, *d*. Passing vertically between the sliding guides *b* are a series of plates, C, of wood or any other suitable material. These plates are arranged so that one plate will be exactly over one of the houses represented on the face of the block A, throughout the series of plates and houses. The faces of the plate C are ornamented to represent an individual or an animal—for instance, "Jack Horner," "Dame Trot," &c.—and the depicted house immediately in front of each character may bear a corresponding name. Each plate C, besides its face ornamentation, has formed in it a vertical slot, *e*, and secured to the guides *b* and to the lower part of the plates C are elastic cords *f*, so arranged as to be at their greatest tension when the plates C are in their lowest position. Through the foundation B pass a series of plungers, *g*, which extend entirely through the foundation, being somewhat longer than it, and terminating at their front ends into knobs *h*.

Now, when my toy is constructed substantially as hereinbefore described, it is operated

in this wise: The plates C are drawn downward between the guides *b*, stretching by this means the elastic cords *f*. At this lowest position the plates C are retained by the catch-pins *d*. The toy being placed at a suitable distance on the floor, balls *k* are rolled until they impinge against the knobs *h* of the plungers *g*. The impact of the balls drives in the plungers, which in turn force the lower part of the plates C outward, freeing them from the catch-pins *d*, when at once the elastic cords *f* are permitted to exert their resilient force and throw upward the plates C, to which they are attached, until they are stopped by the pins *c*. The plates C being projected upward, they expose their ornamental front surface above the houses, to the rear of which they are secured, thereby giving the impression that each house has an occupant who has suddenly jumped up through the roof. Each of the houses may bear a number, *e*, which the players may, if they choose, utilize by transforming the toy into a simple game, the person striking the plungers of the houses with the highest single or aggregate numbers being the winner; or the numbers may be used to teach addition.

Instead of causing the block A to represent a series of houses, it may be a single object—as the body of a man whose head is allowed to shoot upward and complete the figure by the impact of the ball on the plungers *g*. I do not, therefore, desire to limit my invention to the arrangement or combination of a series of houses with the other mechanical devices hereinbefore named; but,

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

A toy composed of the foundation B, having a series of houses, *a*, at right angles to the same, each house bearing a given name, and provided at its rear with guides, elastics, and stop-pins, combined with a figure for each house, representing the names on the houses, and adapted to be projected into view from the roofs of the houses by the mechanism hereinbefore described.

CHARLES M. CRANDALL.

Witnesses:

G. M. PLYMPTON,
EDWARD L. JOHNS.