R. ROTHIG.

MODEL BUILDING MATERIAL FOR EDUCATIONAL PURPOSES AND GAMES.

APPLICATION FILED APR. 25, 1914.

1,106,162.

Patented Aug. 4, 1914.

2 SHEETS—SHEET 1.

Fig. 1.

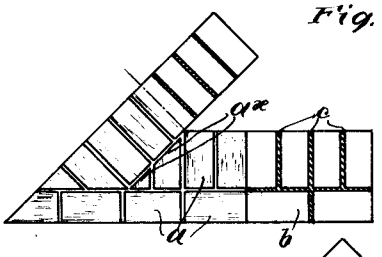


Fig. 2.

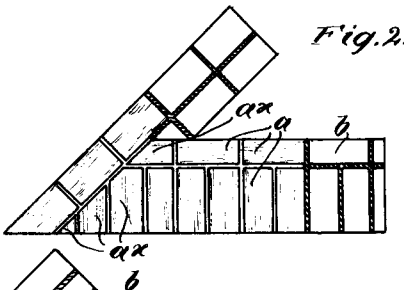


Fig. 3.

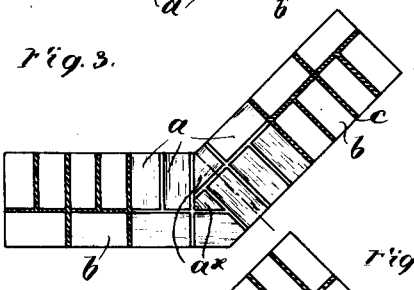


Fig. 4.

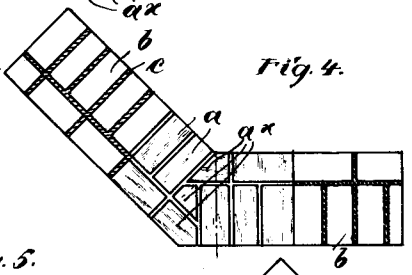


Fig. 5.

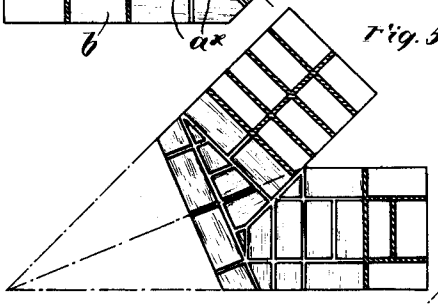


Fig. 6.

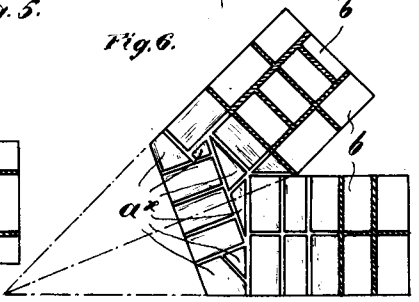


Fig. 7.

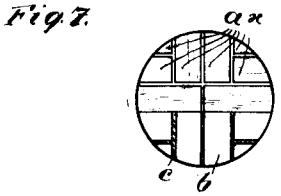


Fig. 8.

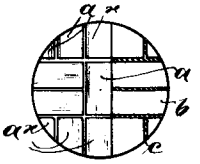
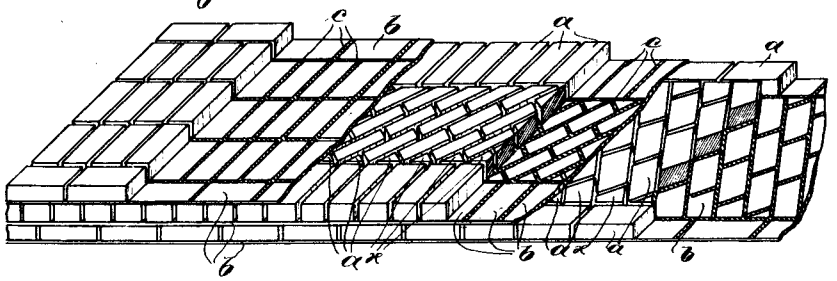


Fig. 9.



WITNESSES.

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2 SHEETS—SHEET 2.

Fig. 10.

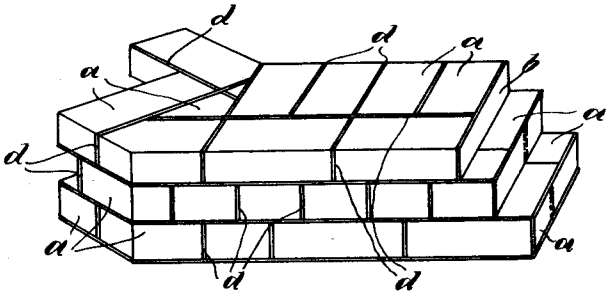


Fig. 11.

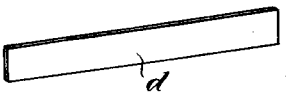


Fig. 12.



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MODEL-BUILDING MATERIAL FOR EDUCATIONAL PURPOSES AND GAMES.

1,106,162. Specification of Letters Patent. Patented Aug. 4, 1914.

Application filed April 25, 1914. Serial No. 834,333.

To all whom it may concern:

Be it known that I, ROBERT RÖTHIG, a citizen of the German Empire, residing at Leipzig-Gohlis, in Germany, have invented certain new and useful Improvements in Model-Building Materials for Educational Purposes and Games, of which the following is a specification.

The object of this invention is to provide improved model building materials for the use of instructors in architecture and building, and also suitable for games. To this end I use blocks of dimensions exactly in proportion with those of the bricks or blocks which they are to represent, said blocks being of a material which can be easily cut, such as cork-linoleum, and I provide strips to be laid under and between the blocks, proportional in thickness to the normal joints, these strips bearing marks or directions showing the manner in which the blocks are to be placed for any particular design, cut or uncut, (the cutting of the blocks corresponding to the trimming or breaking of bricks in ordinary building operations). Used for games, the appliances have the advantage that the structures are in accordance with the principles of ordinary building practice.

The invention is illustrated in the accompanying drawing, in which—

Figures 1 to 6 represent various assemblages of blocks with corner joints. Figs. 7 and 8 are plans of pillars, and Fig. 9 shows a massive brick structure. Fig. 10 shows part of a structure with additional elements therein, Figs. 11 and 12 showing examples of these additional elements.

In the drawing *a* designates blocks or model bricks, whereof the dimensions are exactly in proportion with those of the ordinary building brick, the ratio being, for example, 1:10, and each block being 25 mm. in length, 12 mm. wide, and 6.5 mm. in depth. In the drawing the blocks are shown half-size. They are made of cork linoleum or like material, giving them strength and clean edges, and are colored according to the kind of brick which they are to represent. Color is added to the soft or liquid constituents in course of manufacture of the linoleum mass, so that the bricks are of uniform color throughout, and cut faces do not differ from others.

Between the bricks and on them, are laid strips *b* with masks or directions *c* printed or otherwise applied thereon, setting forth the manner in which the bricks are to be placed in relation to the strips, and also stating or indicating where it is necessary to cut or treat a brick. The thickness of the strips is exactly in proportion to the thickness of the joints between ordinary bricks, that is to say the strips are 1 mm. thick, and the directions *c* may include lines 1 mm. thick, exactly marking the spaces between the bricks, or two lines may be placed 1 mm. apart. The bricks are either simply laid on the strips, or are fastened thereto with adhesive matter. The strips may be coated with dry mucilage, which only requires to be moistened for the purpose of fastening the bricks. Preferably a mucilage is used, which allows of subsequently detaching the bricks again, for further use, or thin adhesive patches or disks may be used for fastening the bricks to the strips.

In the drawing a^x designates bricks which have been cut to fit corners and the like. The cutting, with a suitable knife, is an easy operation, which can be performed by a child.

For corner joints the strips *b* are of the requisite angular shape.

Figs. 10, 11 and 12 show separate strips or plates *d* also made to scale, for the vertical joints between rows of bricks, the width of the strips *d* being equal to the height of the bricks, and the length of each strip *d* being equal to the length of one brick or of a combination or row of bricks.

The bricks or blocks may of course be made to represent any kind of building block or plate, of stone, composition, concrete, or other material, and the surfaces of the blocks may accordingly be roughened, grooved or otherwise treated.

The appliances described are very well adapted for producing models of architectural designs for exhibition purposes, especially by reason of the fact that the cut surfaces are of the same color as the normal faces of the blocks. Mosaics can also be produced with the blocks and strips.

What I claim as my invention and desire to secure by Letters Patent of the United States is:

1. The combination of model building appliances comprising blocks proportioned, as to length, depth and height, in accordance with standard building blocks, and strips, in like proportion to normal joints, adapted

to lie between said blocks, said strips bearing marks which afford directions for the laying of the blocks.

2. The combination of model building appliances comprising blocks proportioned as to length, depth and height, in accordance with standard building blocks, and strips, in like proportion to normal joints, adapted to lie between said blocks, said blocks being of a material adapted to be cut, and said strips bearing marks which afford directions for the laying and cutting of the blocks.

3. The combination of model building appliances comprising blocks proportioned, as to length, depth and height, in accordance with standard building blocks, and strips, in like proportion to normal joints, adapted to lie between said blocks, said blocks being of a material adapted to be cut, and of uniform color throughout, and said strips bearing marks which afford directions for the laying of the blocks.

4. The combination of model building appliances comprising blocks of cork-linoleum proportioned, as to length, depth and height, in accordance with standard building blocks, and strips, in like proportion to normal joints, adapted to lie between said blocks, said strips bearing marks which afford directions for the laying of the blocks.

5. The combination of model building appliances comprising blocks proportioned, as to length, depth and height, in accordance with standard building blocks, strips in like proportion to normal joints, adapted to lie horizontally between said blocks, said strips bearing marks which afford directions for the laying of the blocks, and additional strips similarly proportioned and of the same height as the blocks, adapted to lie in vertical joints between the blocks.

In witness whereof I have signed this specification in the presence of two witnesses.

ROBERT RÖTHIG.

Witnesses:
RUDOLPH FRICKE,
ALICE DUNGER.