

Nov. 11, 1947.

E. H. SIMS

2,430,743

KNOCKDOWN MINIATURE HOUSE

Filed Oct. 19, 1944

2 Sheets-Sheet 1

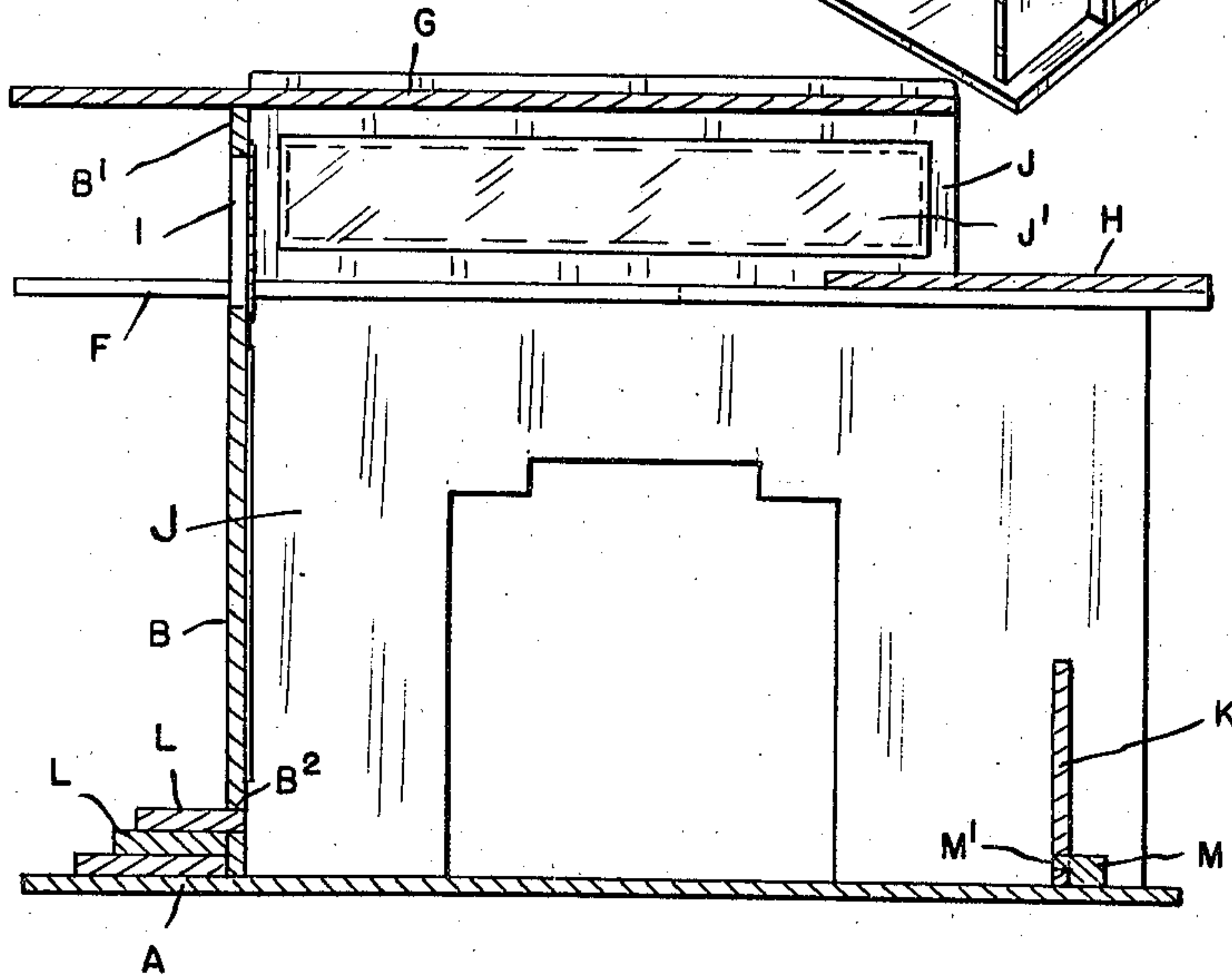
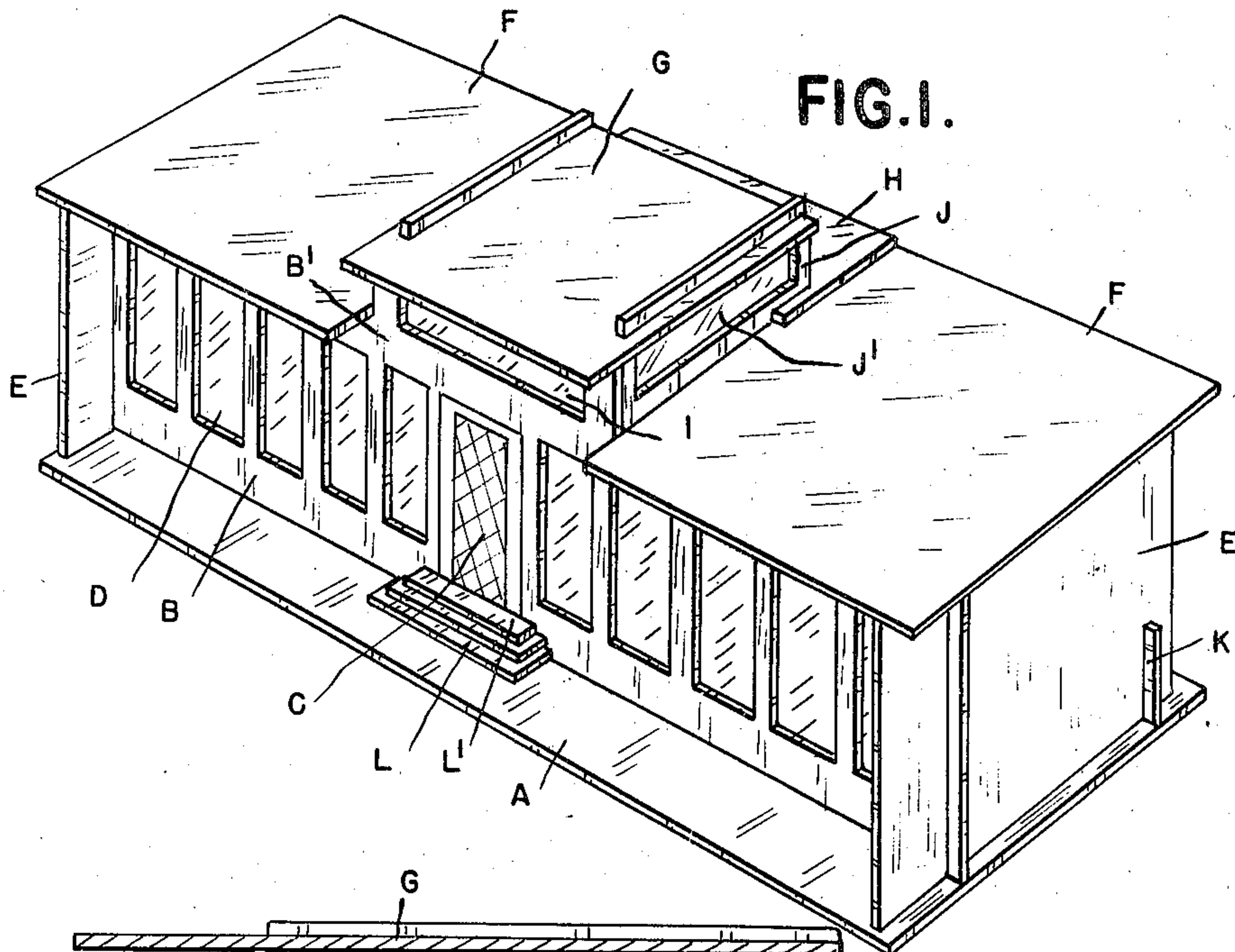


FIG. IO.

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2 Sheets-Sheet 2

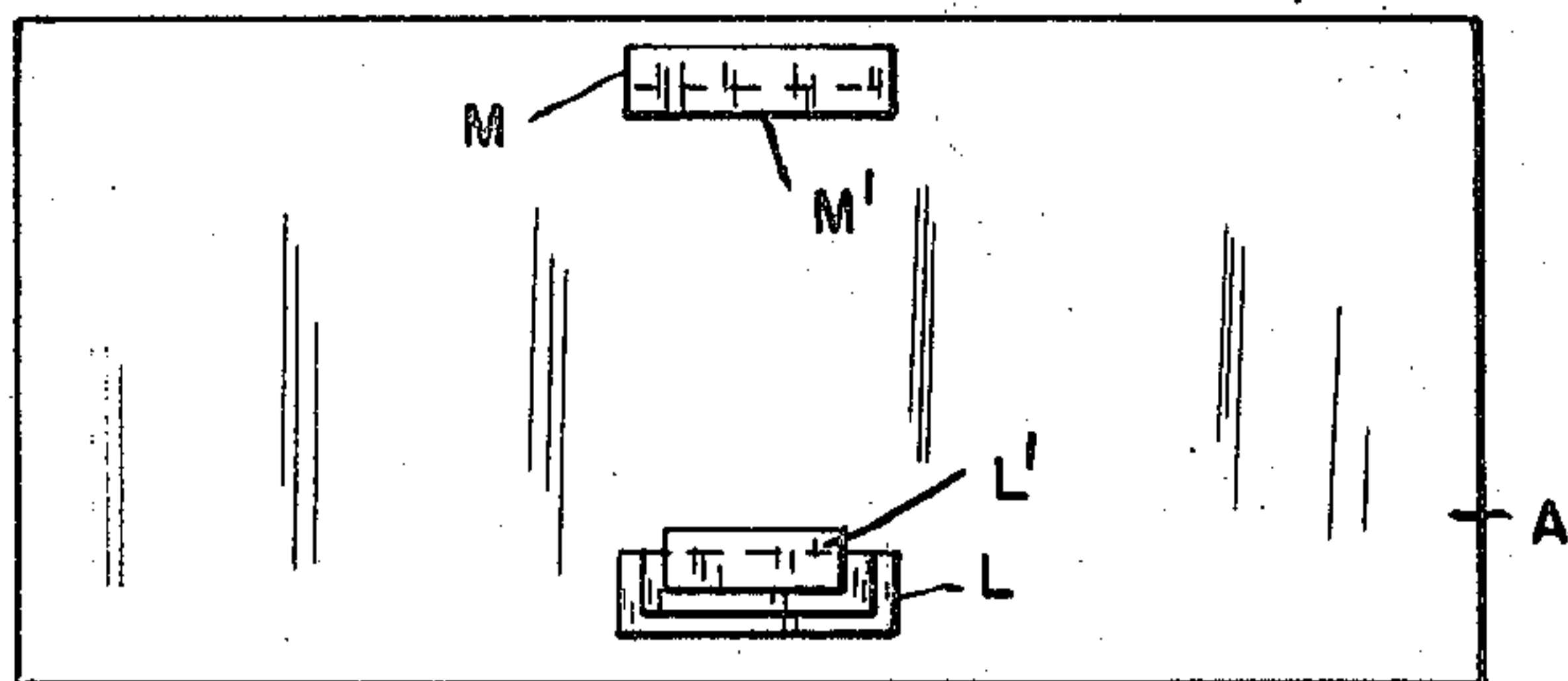


FIG. 2.

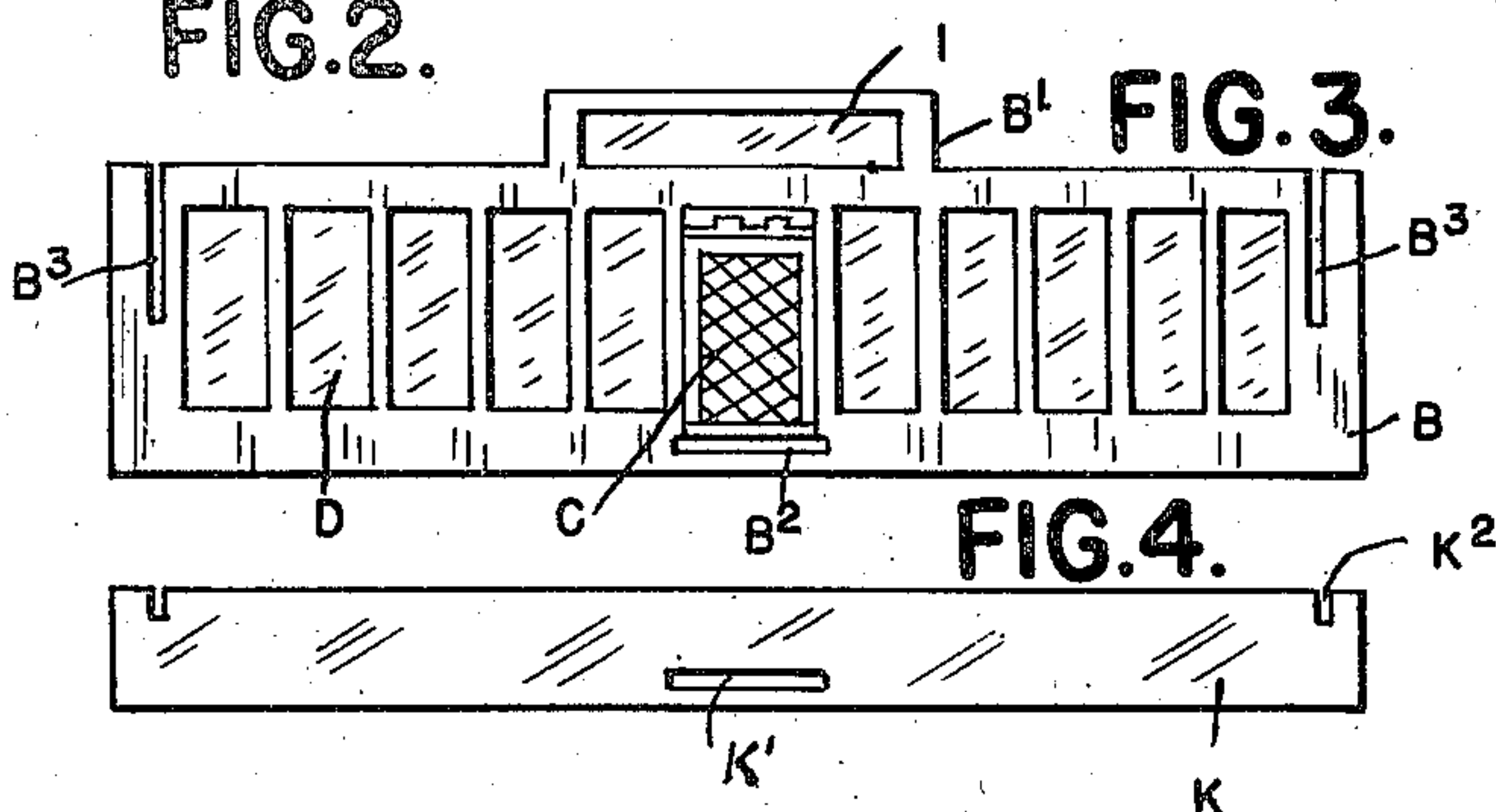


FIG. 3.

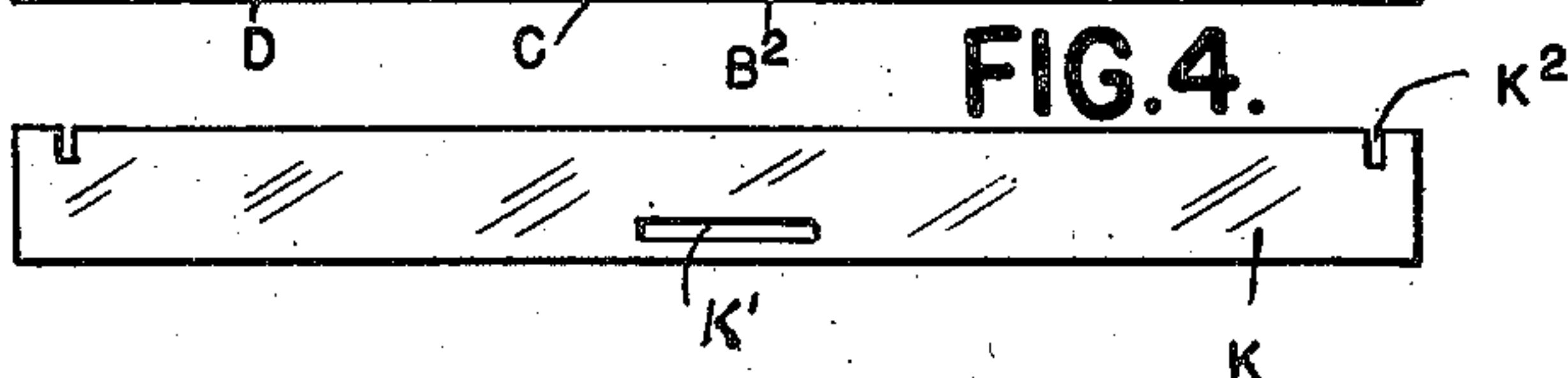


FIG. 4.

FIG. 7.

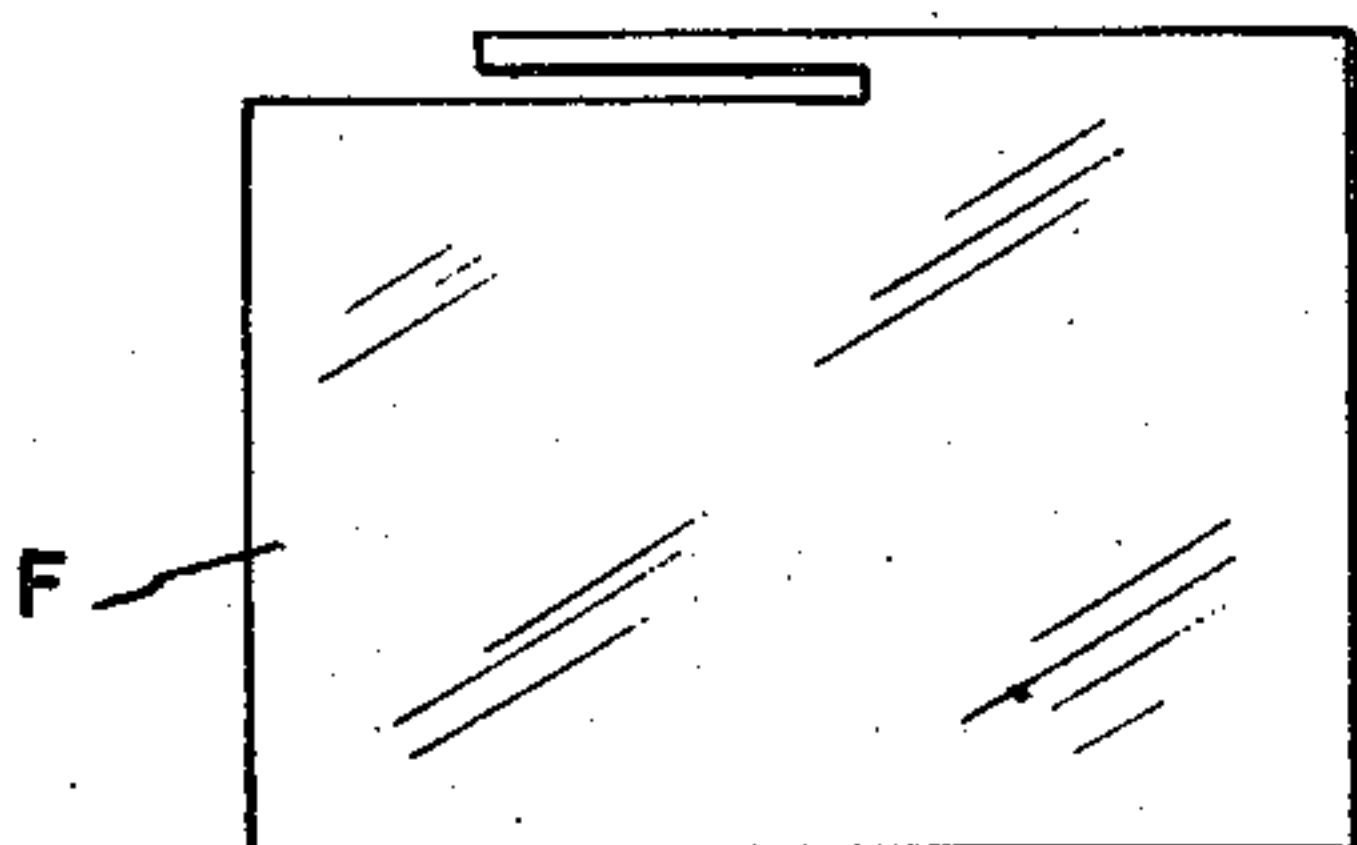


FIG. 8.

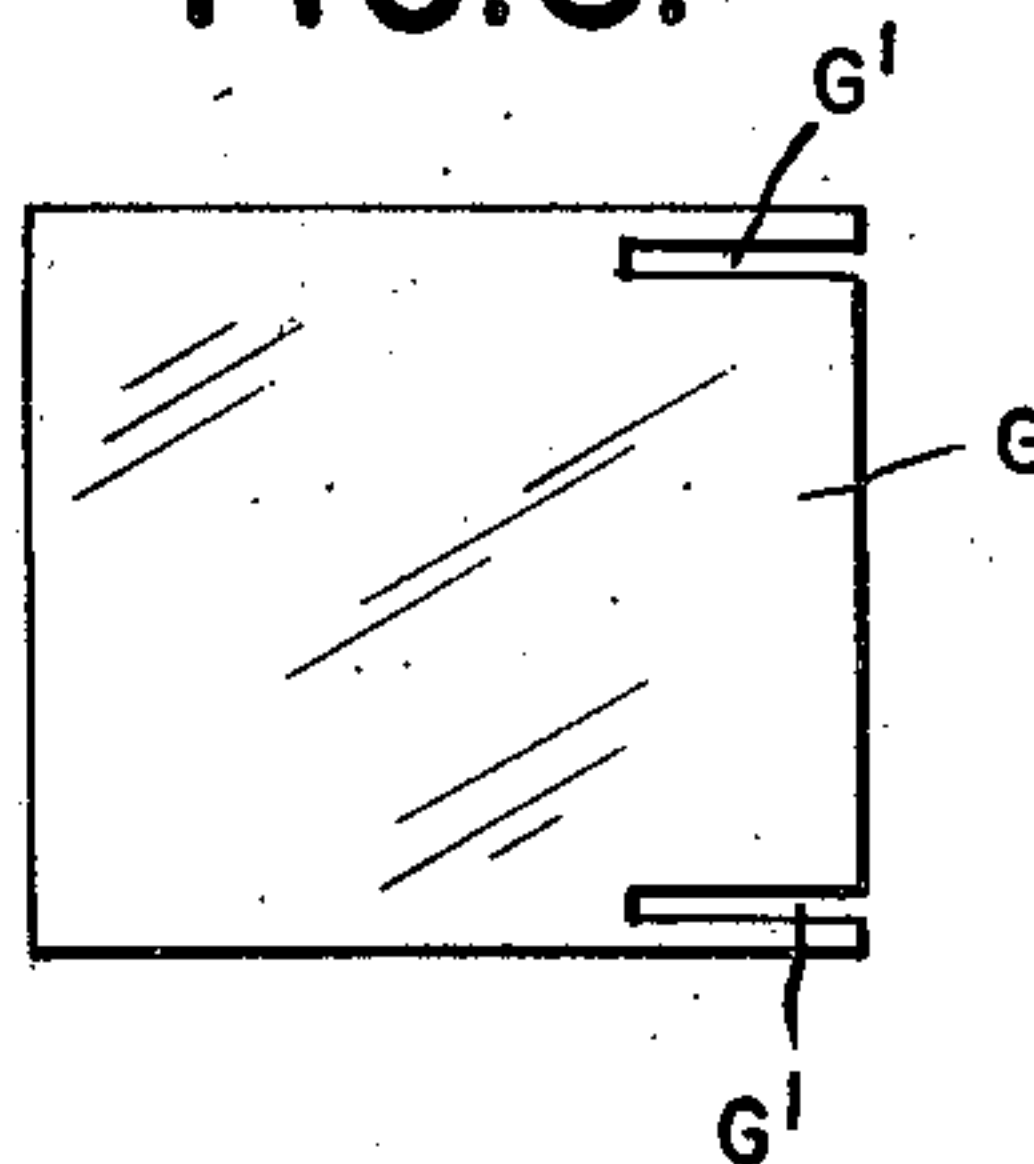


FIG. 9.

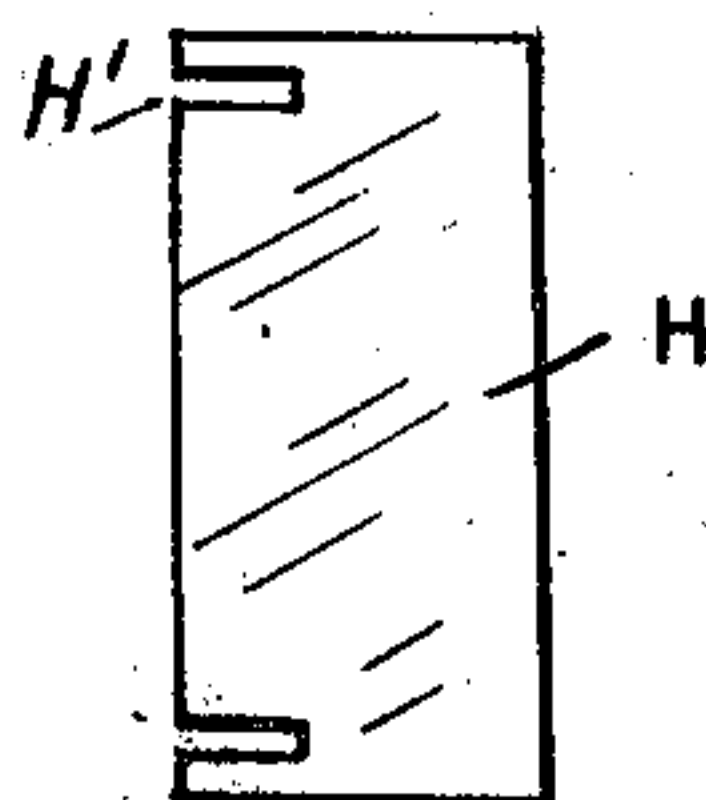


FIG. 5.

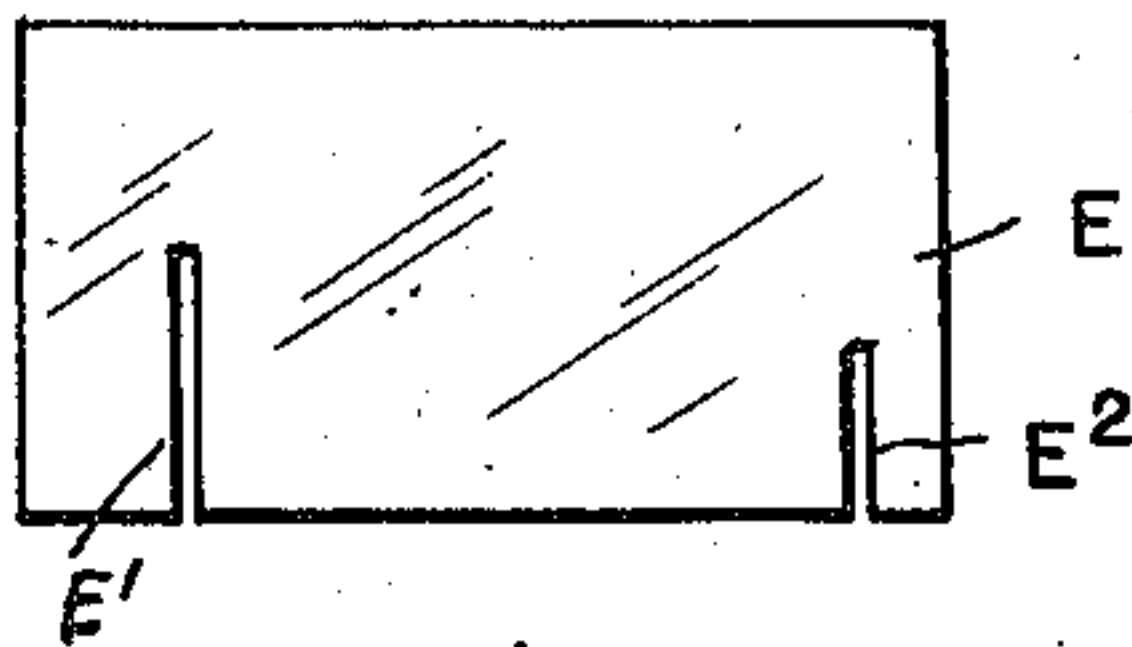
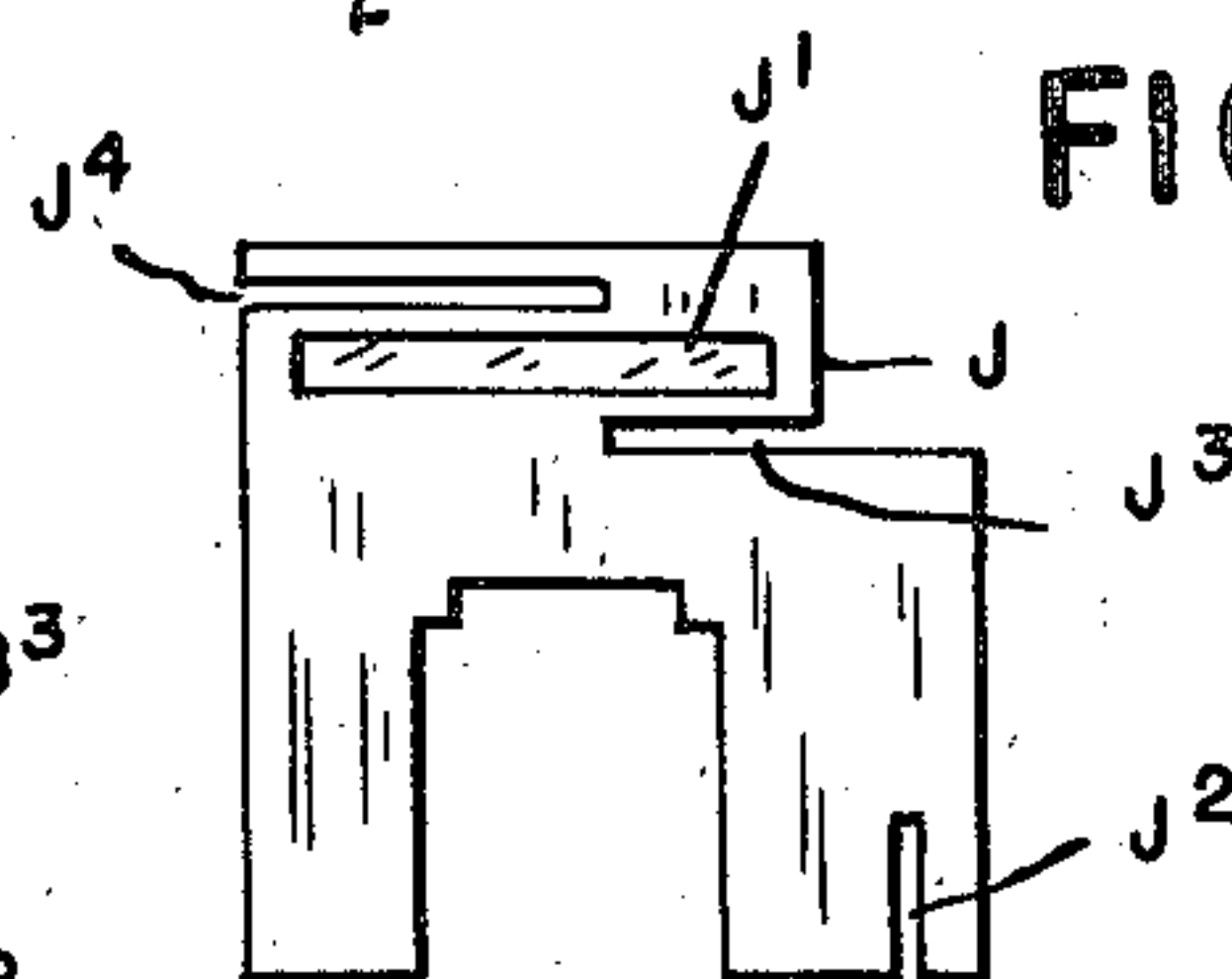


FIG. 6.



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## UNITED STATES PATENT OFFICE

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## KNOCKDOWN MINIATURE HOUSE

Edgar H. Sims, Detroit, Mich.

Application October 19, 1944, Serial No. 559,387

2 Claims. (Cl. 46—19)

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The invention relates to knockdown small houses and has for its object the obtaining of a construction, the elements of which are formed of plywood or other flat board.

It is a further object to obtain a construction in which the several elements may be quickly assembled with each other and without the use of any fasteners or securing means other than present as a part of said elements.

Still further it is an object to obtain a construction that may be used as a doll house, play house, etc., and which closely simulates a full sized house.

More specifically, it is an object to obtain a construction which simulates a solarium. With these objects in view the invention consists in the construction as hereinafter set forth.

In the drawings:

Fig. 1 is a perspective view of the assembled structure:

Figs. 2 to 9, inclusive, are plan views of the elements of the structure individually designated by reference characters; and

Fig. 10 is a vertical cross section through the base and front and rear walls illustrating the manner of securing them to each other.

*Assembled structure*

The specific structure illustrated in Fig. 1 simulates a solarium and comprises a base portion A; a front wall B having centrally thereof a representation of a door C; and on the opposite sides of said door, a series of windows D. In its central portion the wall B rises to a greater height to form an upwardly extending portion B'. E are end walls which are of the same height as the outer portions of the wall B. F are roof members covering these end portions, G is a roof member covering the raised central portion and H is a roof member covering a portion in rear of said central raised portion and overlapping the members F. The whole design is one which has the appearance of a solarium, the windows D being closed by transparent panes. Also, the raised front portion B' has a window I therein with a transparent closure. The sides of the upwardly extending central portion are formed by members J which rise from the base and form arched partition walls within the interior of the house. The portion of each of these members J which extends above the side roof member F and between the same and the center roof member G is provided with a transparently closed window J'. Thus, the sun's rays will be admitted through all of the windows D in the lower portion

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of the structure and through the windows I and J' in the central upper portion thereof. At the rear there is a wall K parallel to the front wall B but rising only a portion of the height thereof. This provides access to the interior of the house through the space above the wall K.

*Specific elements*

The elements, which assembled from the structure as above described, are specifically formed as follows. The base member A is of oblong rectangular form and has secured to its upper face steps L which are arranged to be in front of the door C. The upper step L' projects rearward beyond the others and forms a tongue for insertion in a slot B<sup>2</sup> in the member B. This will lock the members A and B to each other in the position shown in Figs. 1 and 10. A member M secured at the rear of the member A forms a stop for positioning the rear wall K and this member M is also provided with a tongue M' engaging a slot K' in the wall K. Thus, the members B and K are both secured to the member A and held properly spaced from each other. The member B has formed adjacent to opposite ends thereof the slots B<sup>3</sup> extending from the upper edge to about the middle of the member. These are of a width to receive the end members E which latter are of rectangular form and are provided with slots E', E<sup>2</sup> extending upward from the lower edge. The slot E' engages with the unslotted portion of the member B below the slot B<sup>3</sup> therein and the slot E<sup>2</sup> similarly engages with the member K and a notch K<sup>2</sup> in the upper edge thereof. The partition members J are in the form of an arch extending across the space between the front wall B and rear wall K. These members have the upwardly extending slot J<sup>2</sup> parallel to the rear edge thereof which is adapted to engage the rear wall K. There are also the slots J<sup>3</sup> and J<sup>4</sup>, the former extending horizontally from the rear below the window J' and the latter extending horizontally from the front above said window. These slots are adapted to receive respectively the rear roof member H and the top roof member G. The member G has the slots G' extending forward from its rear edge and which are complementary to the slots J<sup>4</sup> in the members J. This permits of engaging the member G with the members J so as to extend completely across the latter. The member H has slots H' extending rearward from its forward edge which engage the rear edge portions of the member J. The roof members F are provided with slots F' parallel to their inner edges and extending from the forward



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edge rearward. These are complementary to the slots J<sup>3</sup> in the member J so that said roof members may be interlocking with the member J to extend therefrom over the end walls E and front wall B.

When the elements above described are separated from each other, they are all flat and may be stored adjacent to each other in a small space but, whenever the house is to be assembled, the procedure is as follows. The front wall B and the rear wall K are first engaged with the bottom A in the manner previously described, the tongues L' and M' respectively engaging the slots B<sup>2</sup> and K'. The end walls E and the partition members J are next assembled with the front and rear walls B and K after which the roof members F, G and H are placed in position and interlocked as previously described.

What I claim as my invention is:

1. A knockdown house comprising a plurality of flat elements including a base section; front, rear and end wall sections, said front wall having a central portion extending upward beyond the side portions thereof, partition sections at opposite ends of said central portion also extending upward to the same height, roof sections covering said central section and portions at opposite sides thereof the portions of said partitions above the side roof sections forming sides for said central section, said wall, partition and roof sections being formed with slots extending from one edge part way across the width thereof to cooperate with adjacent slotted sections and to secure the same to each other.

2. A knockdown house simulating a solarium comprising a plurality of flat sections including a floor section; front wall, rear wall and end wall

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sections, said front wall section having the central portion thereof extending upward beyond the opposite side portions, partition sections at opposite sides of said central portion and extending upward to the same height, roof sections respectively covering said central portion and portions on opposite sides and in rear thereof the portions of said partitions above the side roof sections forming sides for said central section, said wall sections, partition sections and roof sections being provided with slots extending from one edge part way across the width of the same and cooperating with adjacent similarly slotted sections to secure the same to each other, said front section having a door portion in the center thereof and a series of windows on opposite sides thereof and a window in the upwardly extending portion thereof, each of said partition sections having a window in the portion thereof extending between said roof sections, steps secured to said bottom section adjacent to the door portion of said front section, the upper step having a tongue extending into a slot in said front section to secure the same to said bottom section, and transparent panels extending across said windows.

EDGAR H. SIMS.

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