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S. L. MASON ET AL
METAL WINDOW SCREEN FRAME

2,624,428

Filed June 25, 1951

Fig. 1.

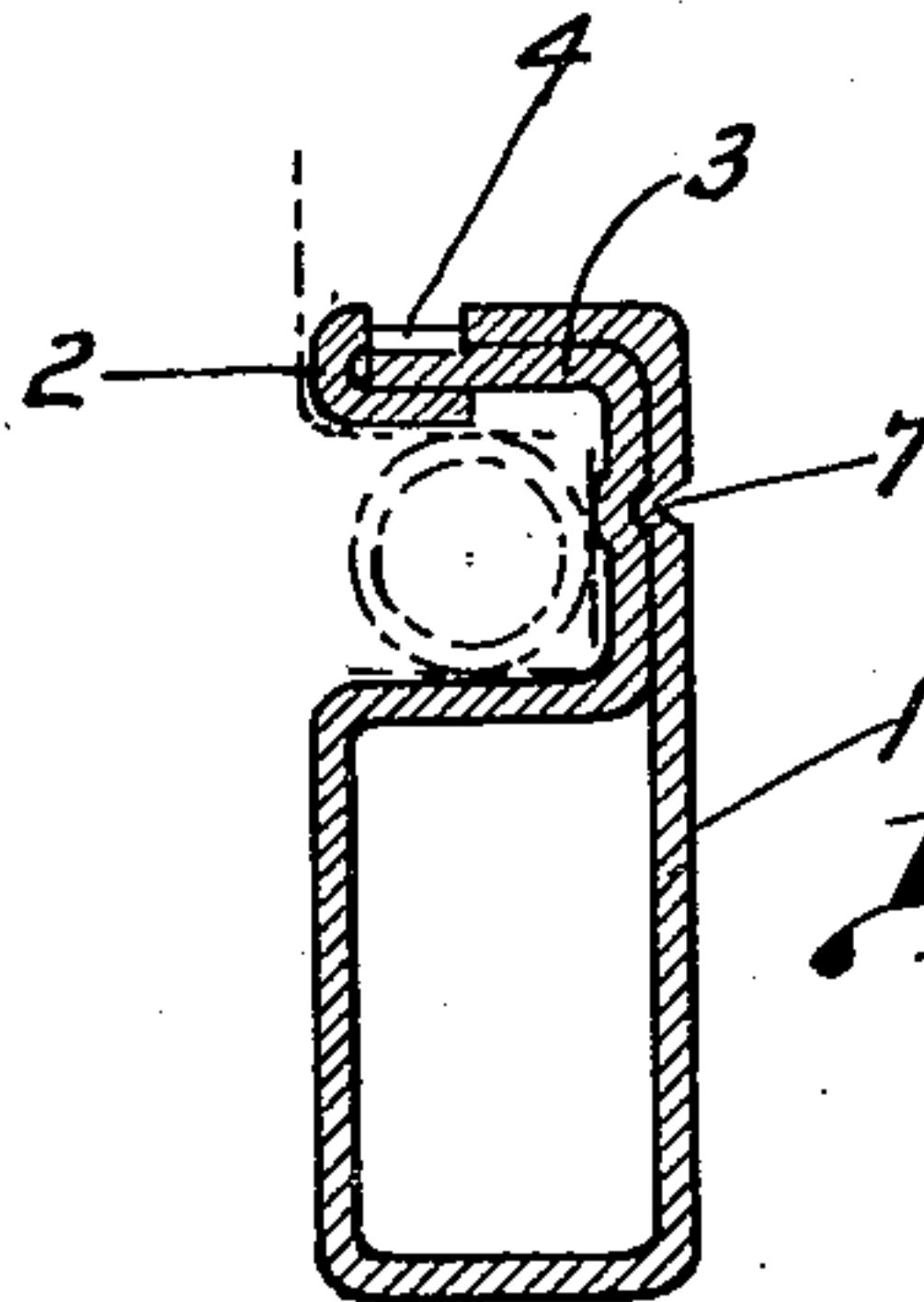
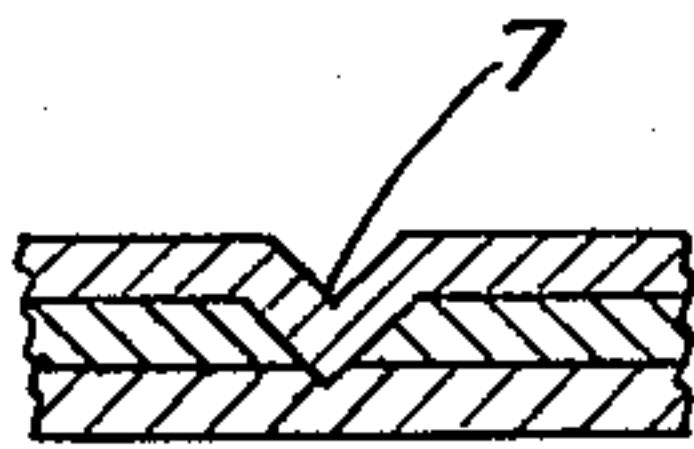
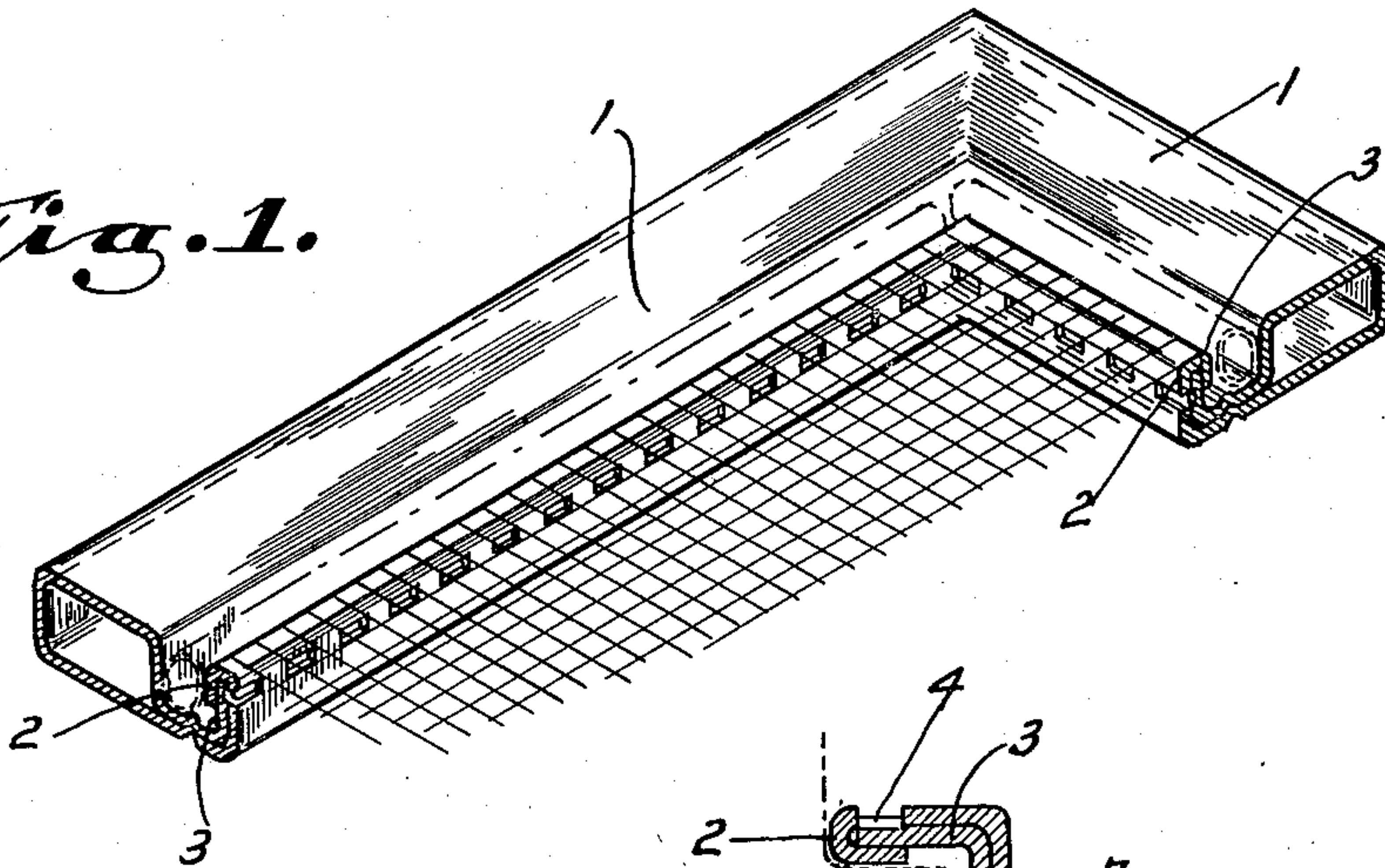


Fig. 2.

Fig. 3.

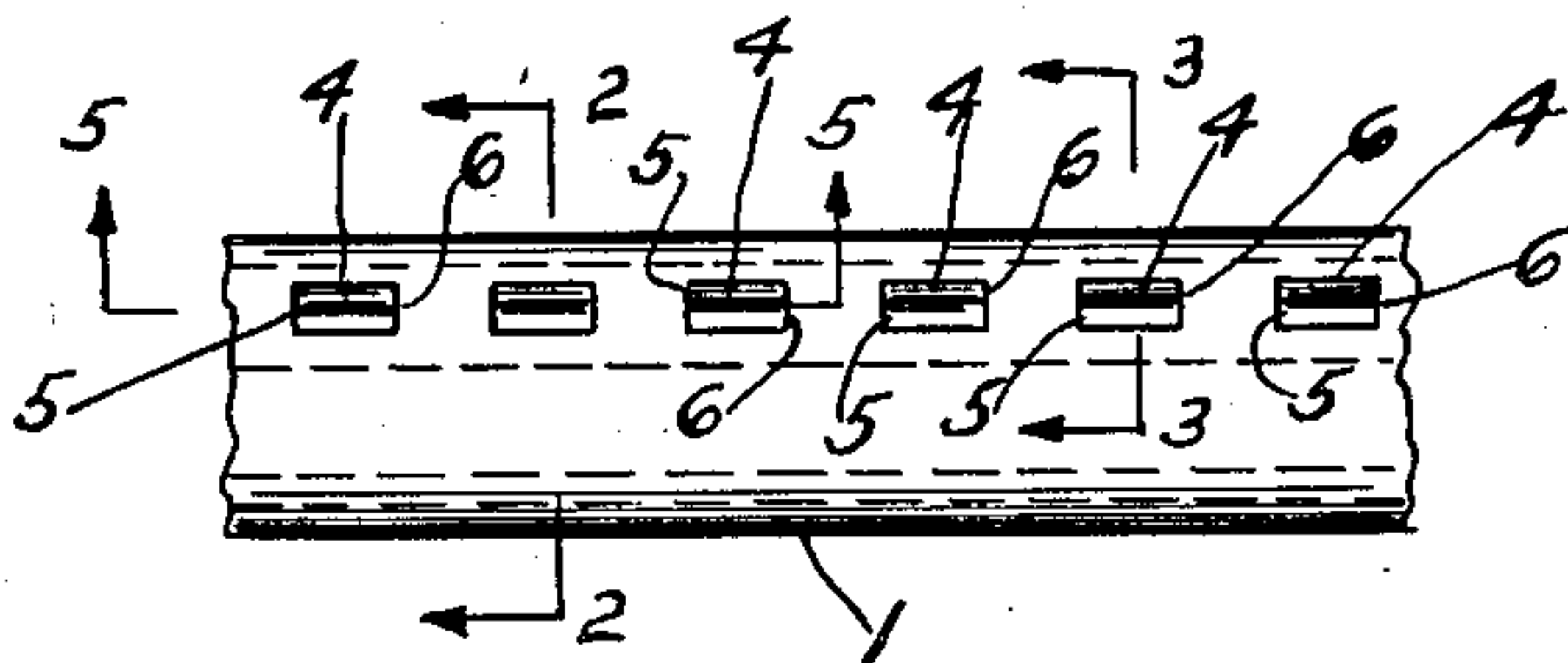


Fig. 4.

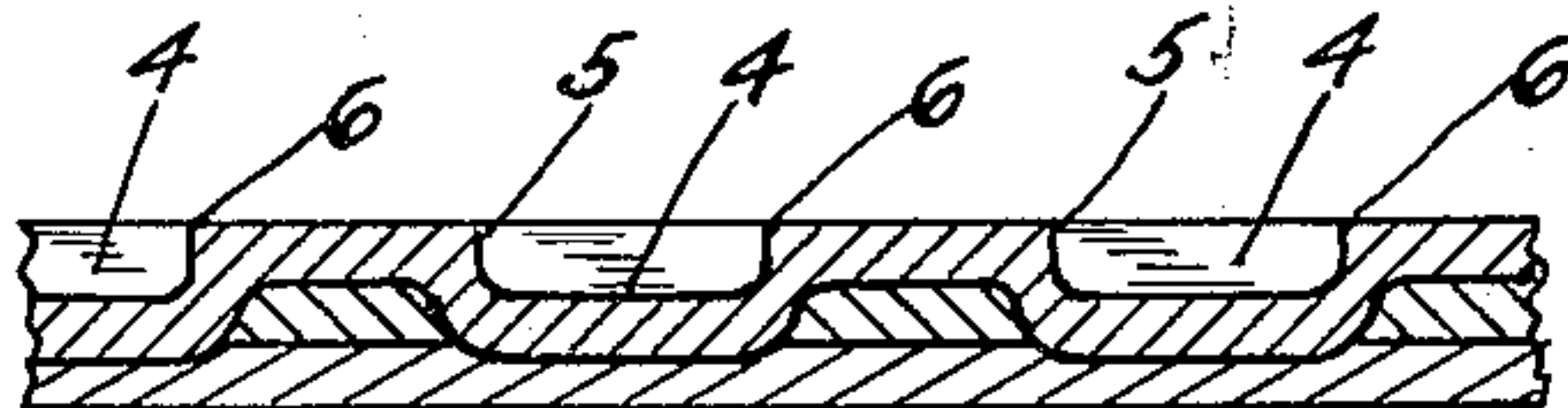


Fig. 5.

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UNITED STATES PATENT OFFICE

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METAL WINDOW SCREEN FRAME

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3 Claims. (Cl. 189—34)

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This invention relates to a metal window screen frame. It has for its main objects to provide such a frame that will be highly efficient for its purpose, simple in structure, comparatively cheap to manufacture, attractive in appearance, and extremely durable. Its main feature resides in the use of indentations in its frame members for the purpose of keeping them in line and rigid. The indentations are preferably elongated in shape with the ends of each cut clear in order for the indented portion to be more easily bent from the metal piece in which the indentations are made.

Other objects and advantages will appear from the drawing and description.

This application covers an improved type of indentation over the kind shown in our co-pending application under Serial Number 4,376 filed January 26, 1948.

By referring generally to the drawing, a part of this application, it will be observed that Fig. 1 is an isometric view of a corner of a frame and screen therein showing indentations according to the present invention in the frame members; Fig. 2 is an enlarged detail sectional view on line 2—2 of Fig. 4; Fig. 3 is a sectional view on line 3—3 of Fig. 4; Fig. 4 is an enlarged fragmentary view of a frame member showing several indentations therein; and Fig. 5 is an enlarged sectional view on line 5—5 of Fig. 4.

Similar reference numerals refer to similar parts throughout the several views.

Referring to the drawing in detail it will be seen that the frame member 1 is formed out of a piece of thin metal with one edge 2 curved U-shape with the other edge 3 inserted in the U-shaped edge and having indentations 4 with ends 5 and 6 severed from the metal piece and having the center portion of the indented portion pressed into the adjacent sheet edge. The indentations are made in two forms, one being the V-type 7 as shown in Figs. 2 and 3, and the rectangular type as shown in Figs. 1, 4 and 5. In both types the ends of the indented portions are severed from the metal piece in which they are made with the longer side edges of the indented portions remaining integral with the metal piece. This structure makes the manufacturing problem easier as it provides for less pressure to cause the indented portion to be embedded in the adjacent metal. The frame members are formed by passing the blank metal strips through machines for the purpose, which are no part of the present invention. The invention resides in the structure and indentations as described. By the

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use of such indentations the frame members are made rigid and free of torsional twist.

The frame members may be made of any material suitable for the purpose, but we prefer to use sheet aluminum. Also the parts may be made in different sizes and capacities, depending on how and where to be used. Also the indentations in the members may be made in different sizes.

While we have shown and described the preferred embodiment of our invention, we do not wish to limit same to the exact and precise details of structure, but reserve the right to make all modifications and changes so long as they remain within the scope of the invention and the following claims.

Having described our invention we claim:

1. A metal member for a window screen frame, said metal member consisting of a piece of flat thin metal formed with a hollow space in the entire length of the form and with a groove adjacent one wall of said hollow space, one edge of the said piece being bent over upon itself to thus form a U-shaped channel, the opposite edge of the piece being inserted in the channel, a plurality of indentations in the U-shaped edge extending into the edge portion within the U-shaped channel, each of said indentations having both of its ends cut clear of the metal piece.

2. A metal member for a window screen frame, said metal member consisting of a piece of flat thin metal formed with a hollow space in the entire length of the form and with a groove adjacent one wall of said hollow space, one edge of the said piece being bent over upon itself to thus form a U-shaped channel, the opposite edge of the piece being inserted in the channel, a plurality of indentations in the U-shaped edge extending into the edge portion within the U-shaped channel, each of said indentations being oblong in shape with both of its ends cut clear of the said metal piece with the sides of the indentations remaining integral with the metal piece.

3. A metal member for a window screen frame, said metal member consisting of a piece of flat thin metal formed with a hollow space in the entire length of the form and with a groove adjacent one wall of said hollow space, one edge of the said piece being bent over upon itself to thus form a U-shaped channel, the opposite edge of the piece being inserted in the channel, a plurality of indentations in the U-shaped edge extending into the edge portion within the U-shaped channel, each of said indentations being

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a V-shaped oblong channel with both of its ends cut clear of the said metal piece with the side edges of the indentation remaining integral with the metal piece.

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The following references are of record in the file of this patent:

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