

Sept. 20, 1960

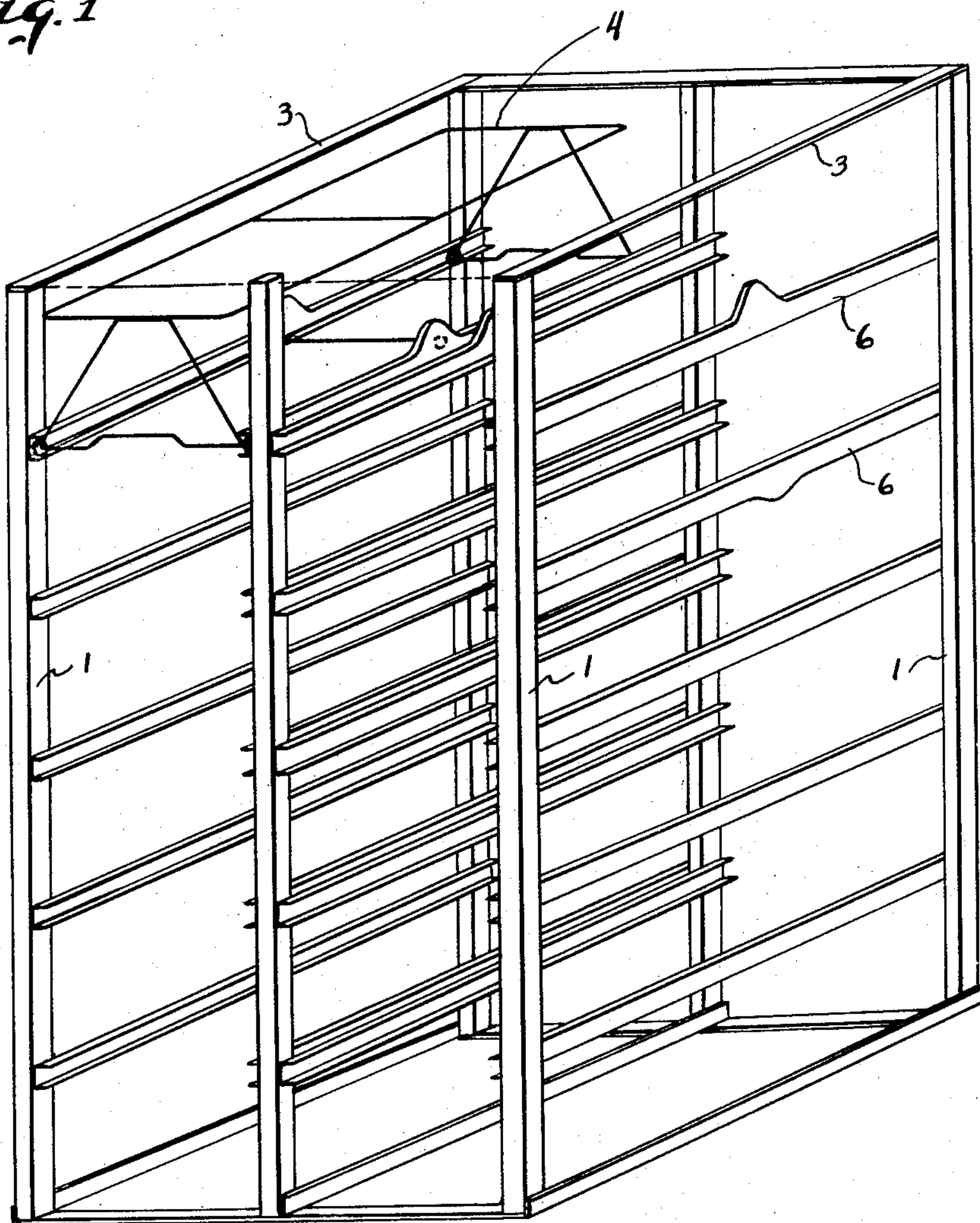
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2,953,254

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4 Sheets-Sheet 1

Fig. 1



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Fig. 2

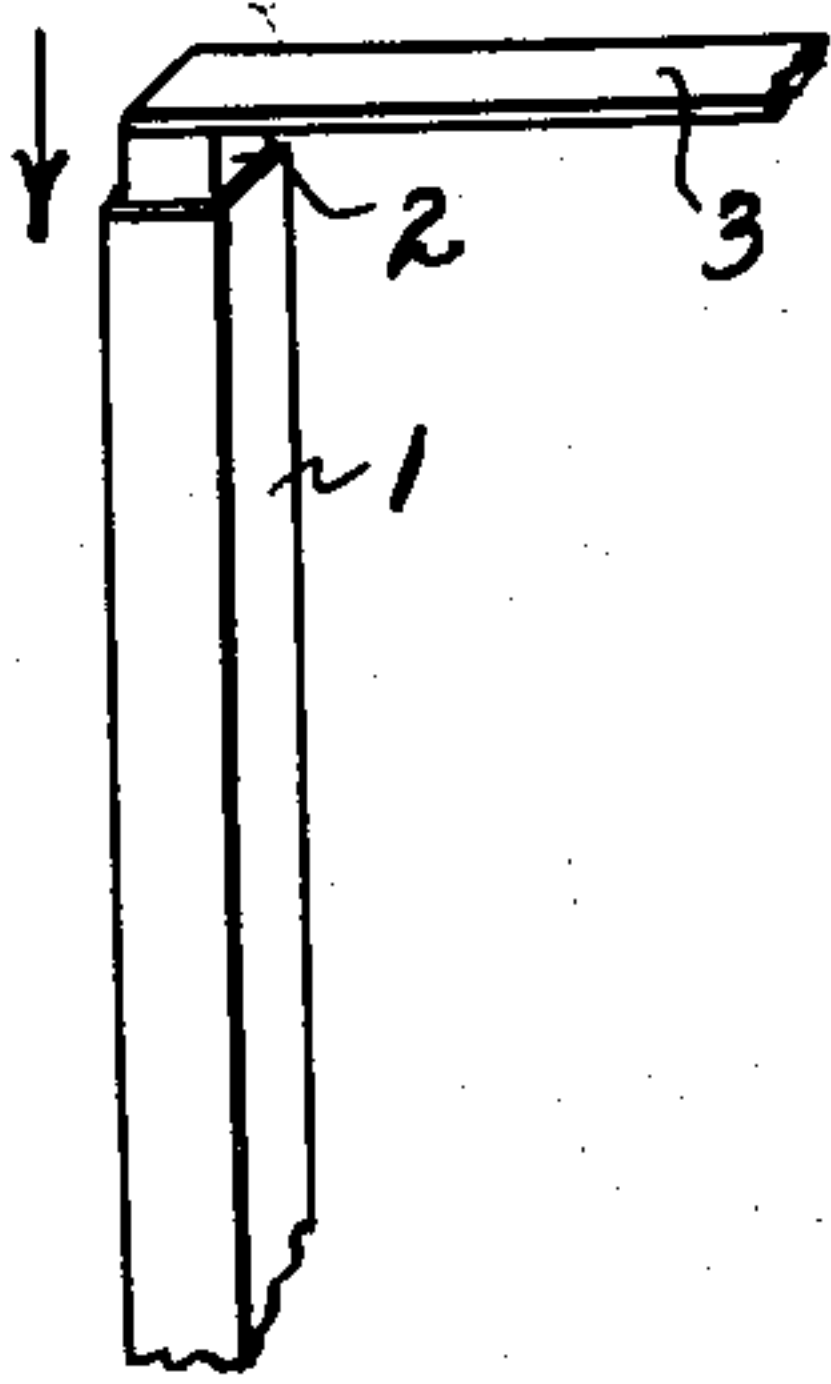


Fig. 3

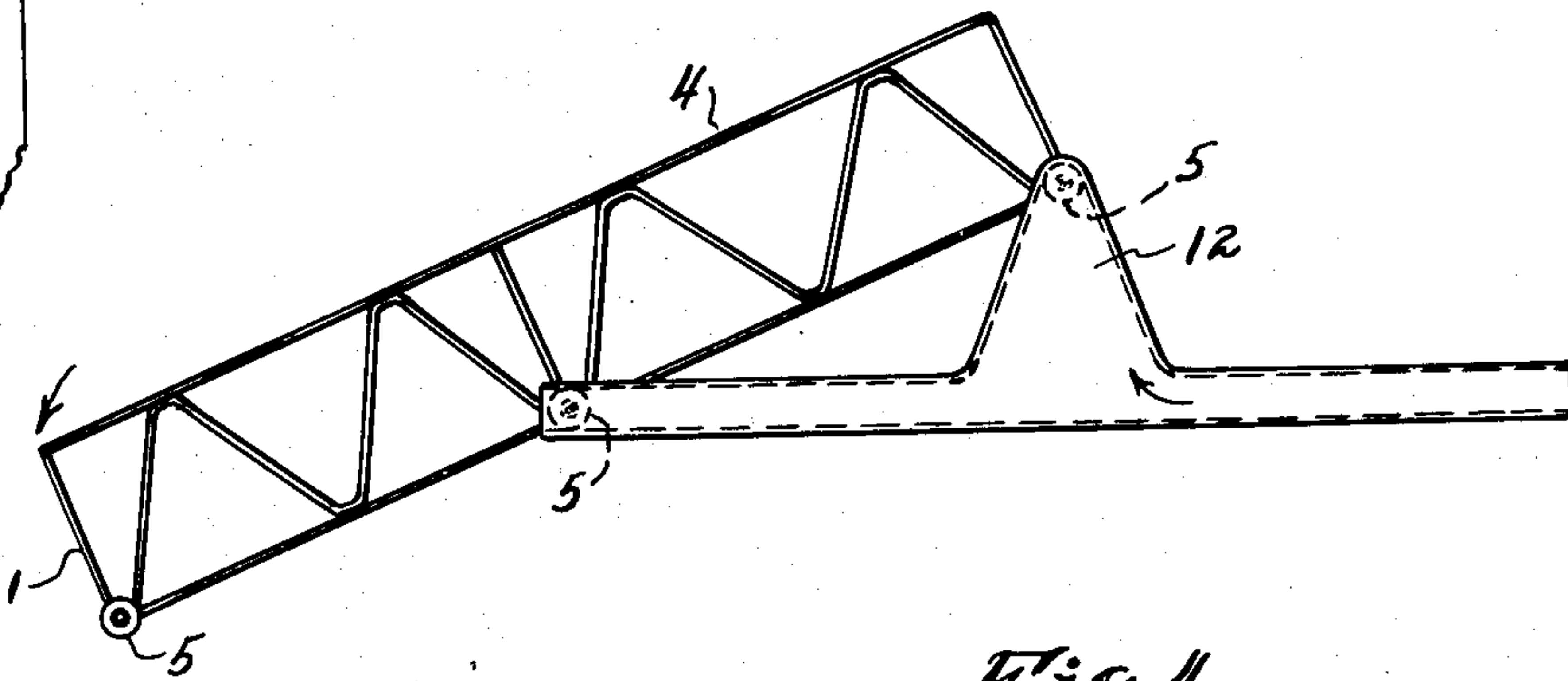


Fig. 4

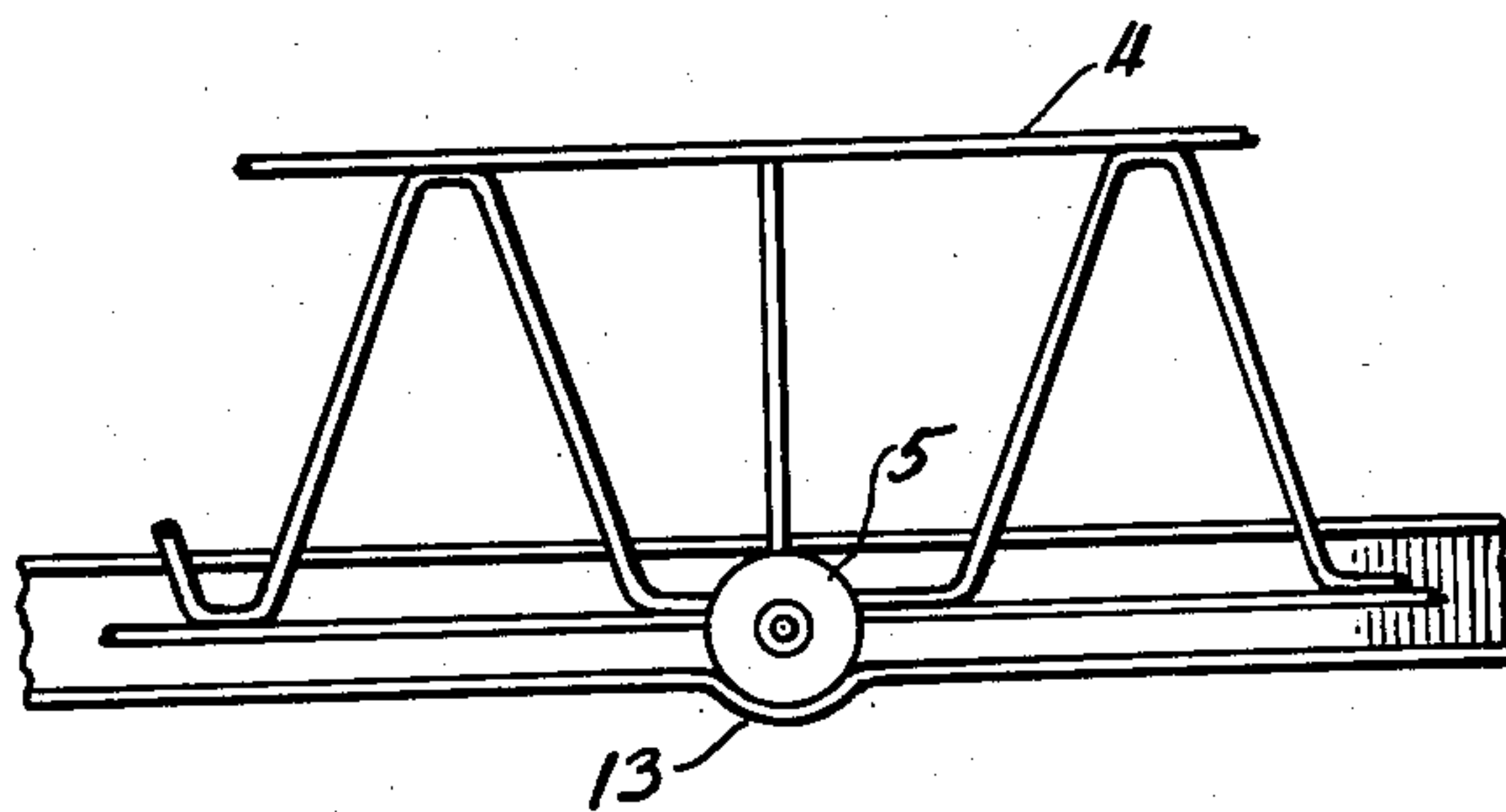
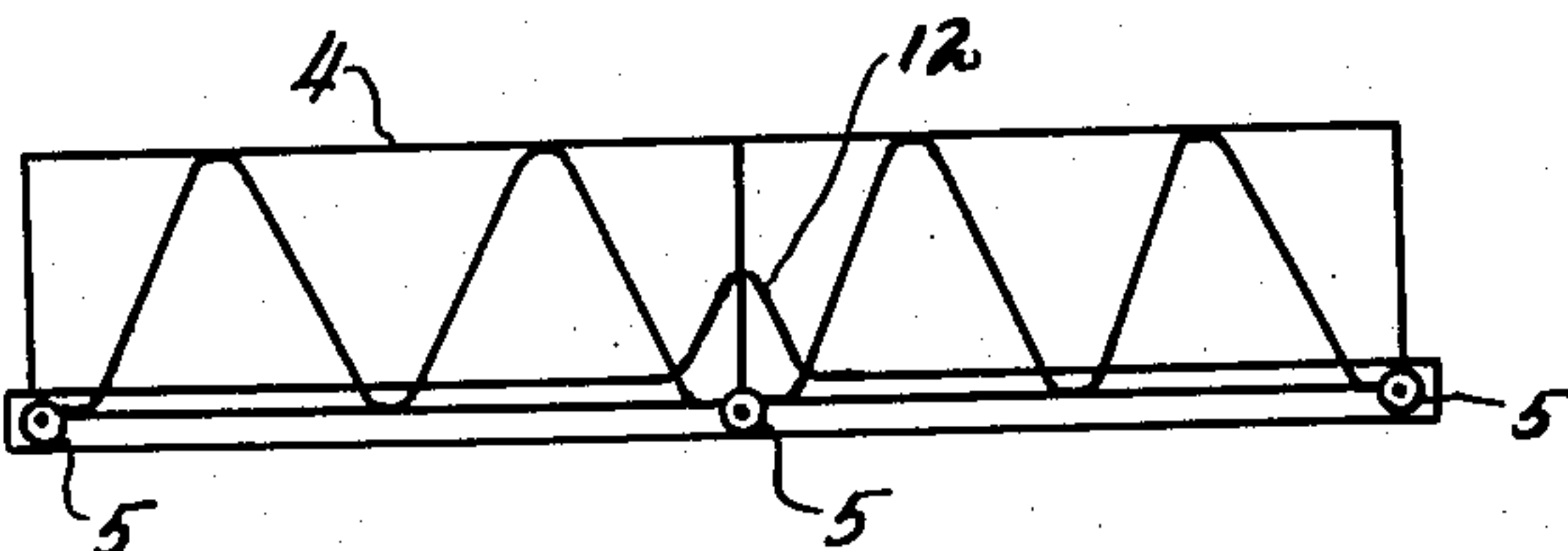


Fig. 5



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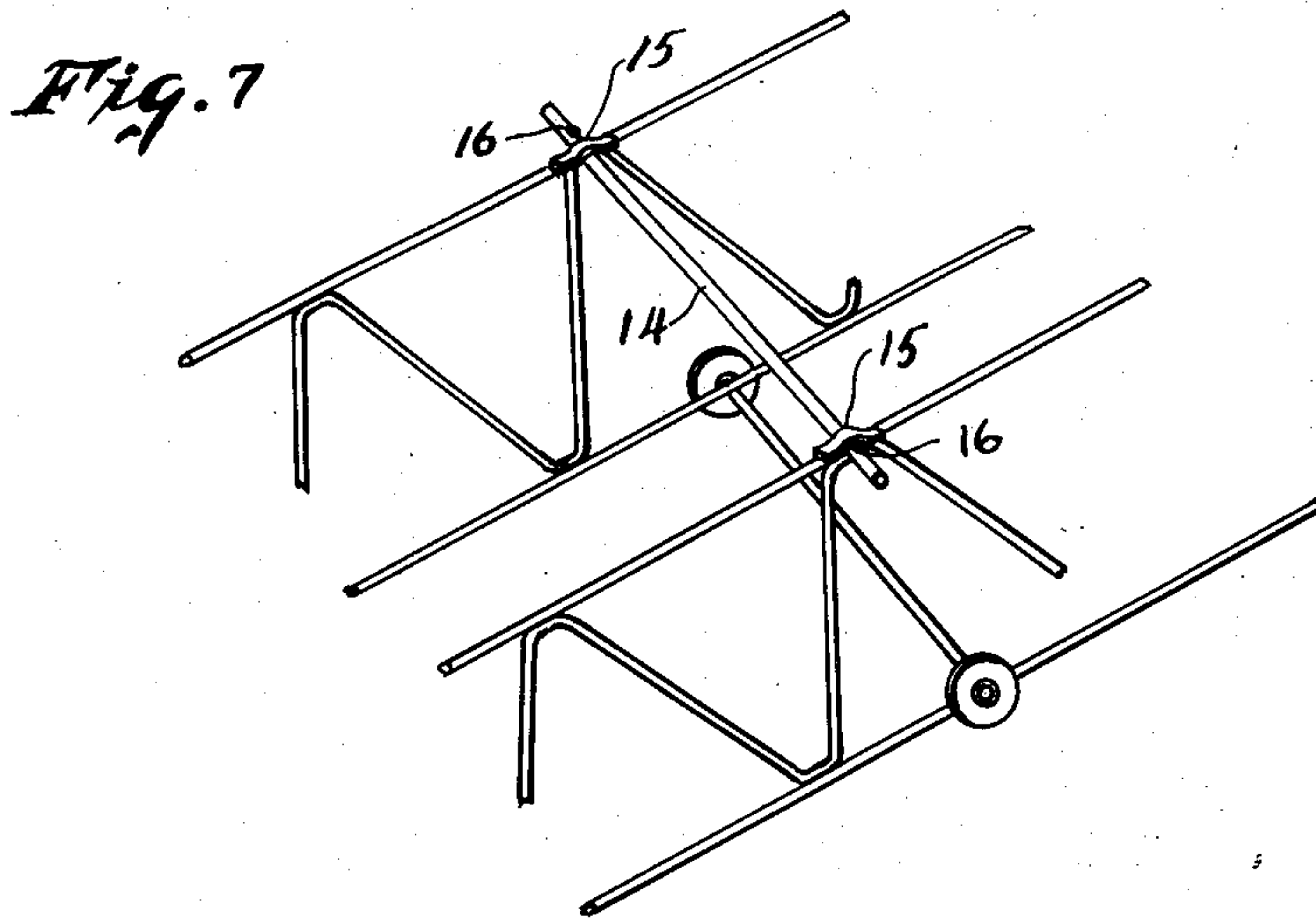
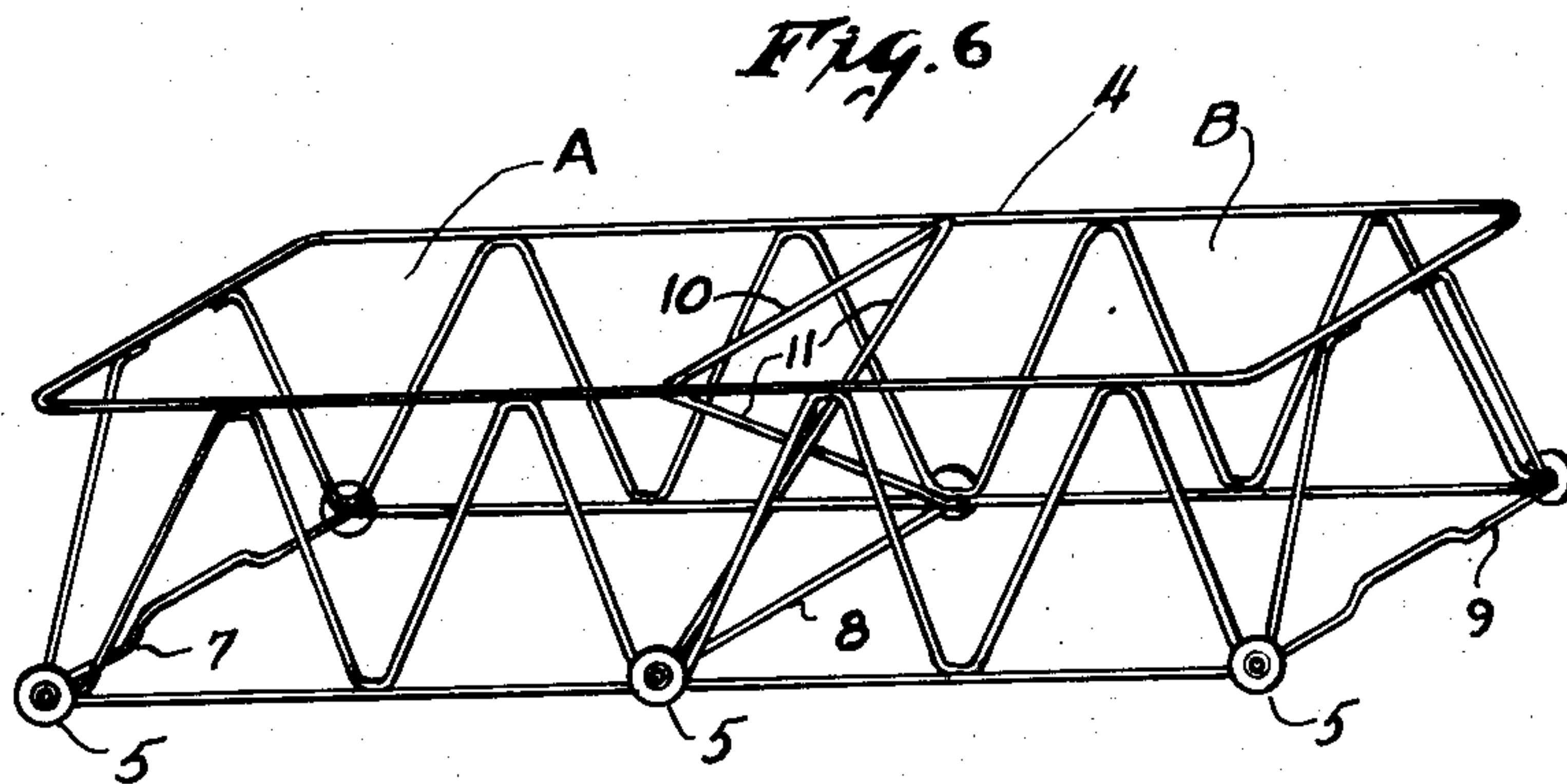


Fig. 8

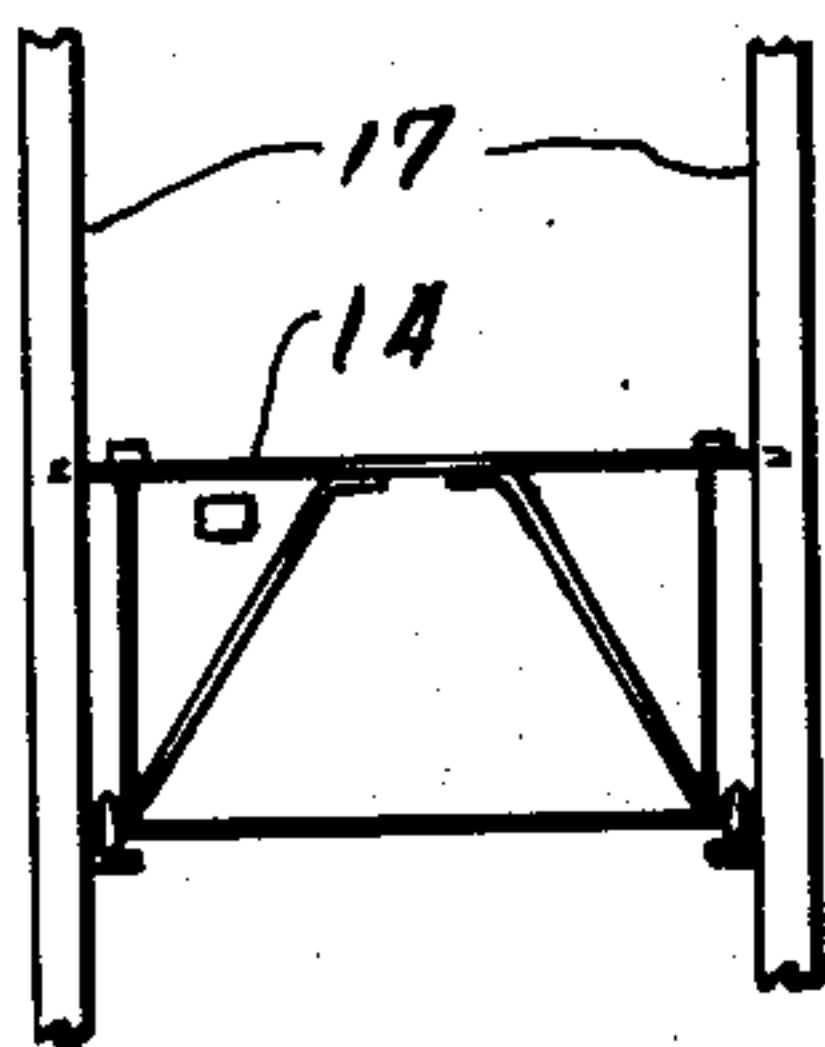


Fig. 9



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Fig. 10

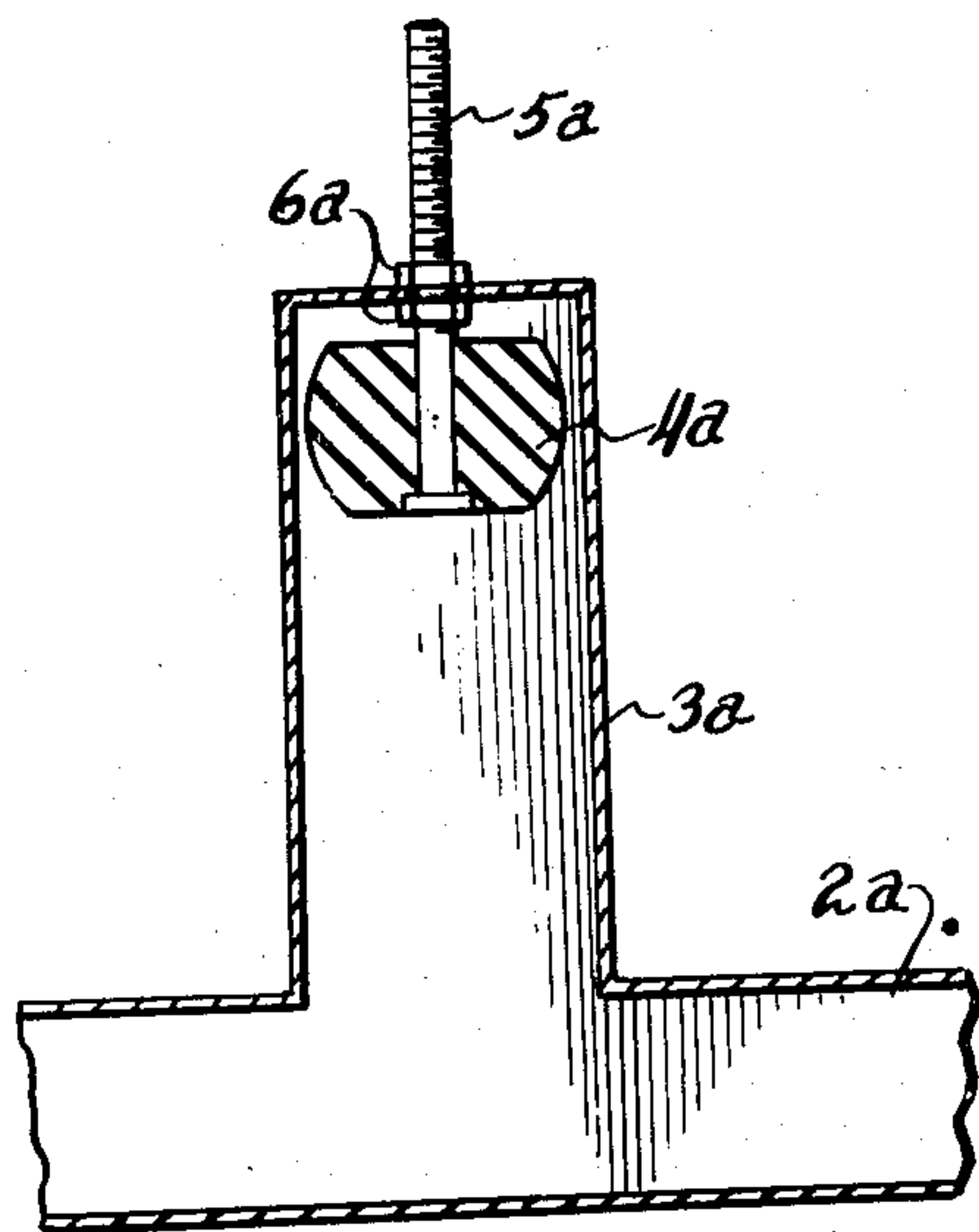


Fig. 11

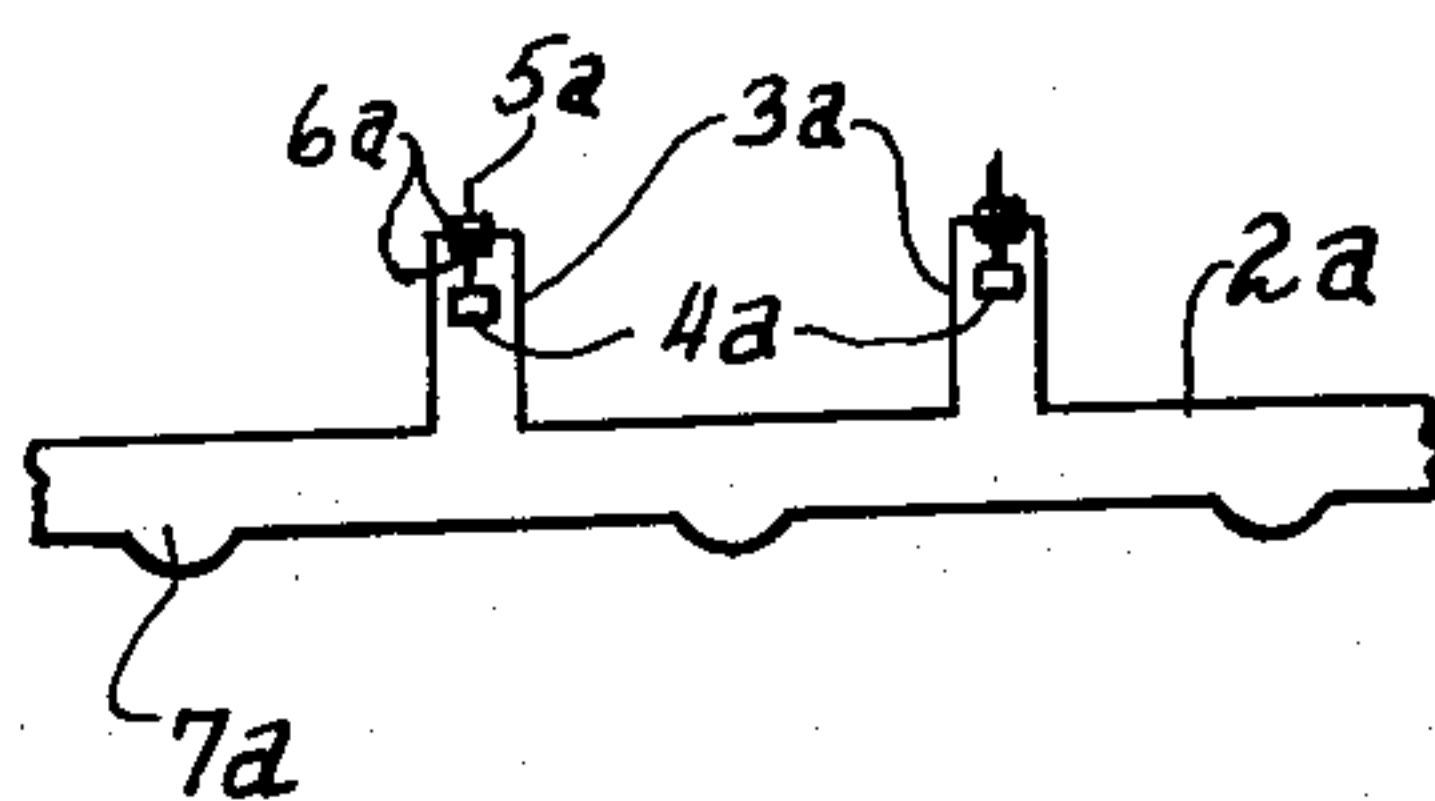


Fig. 12

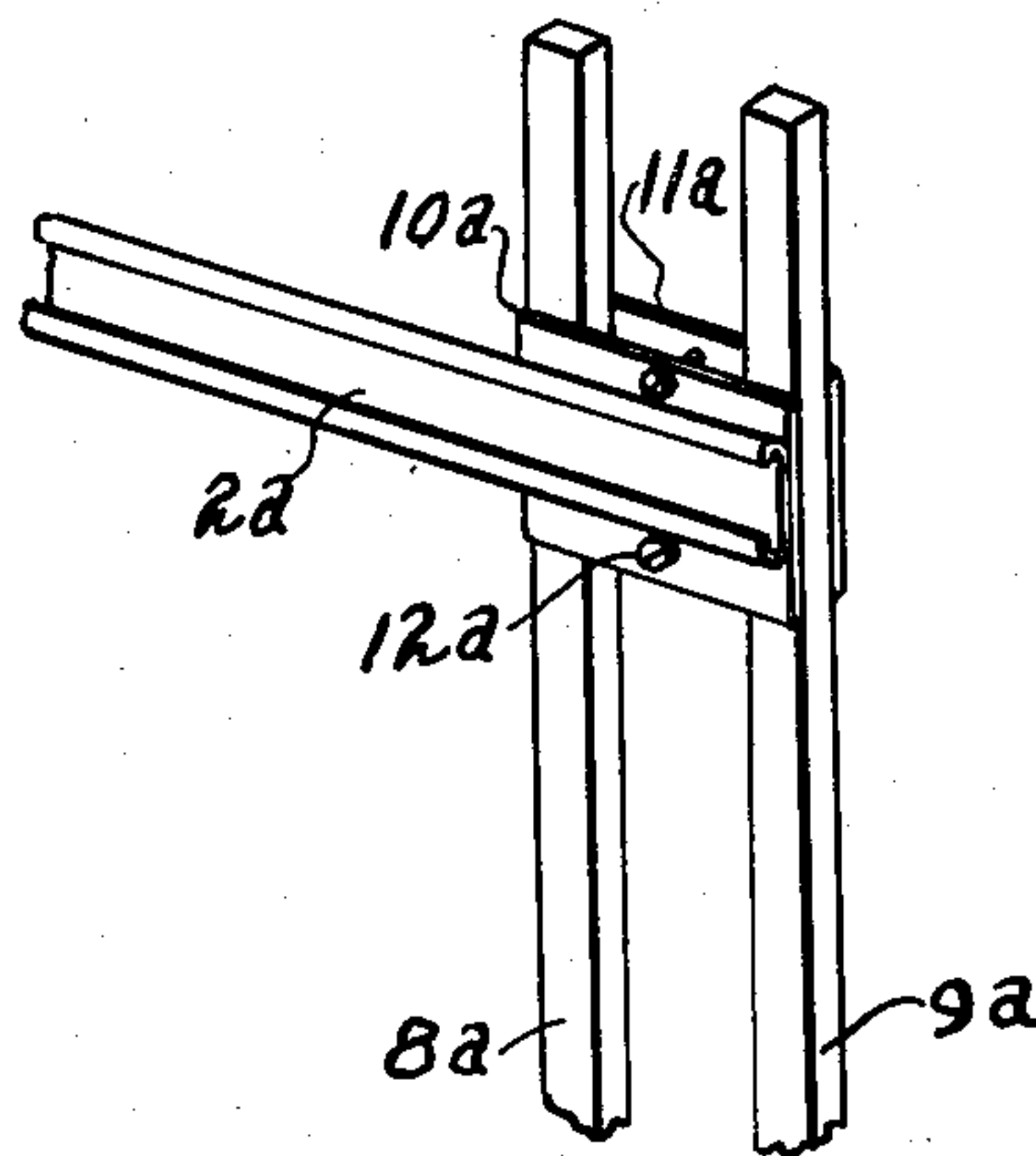
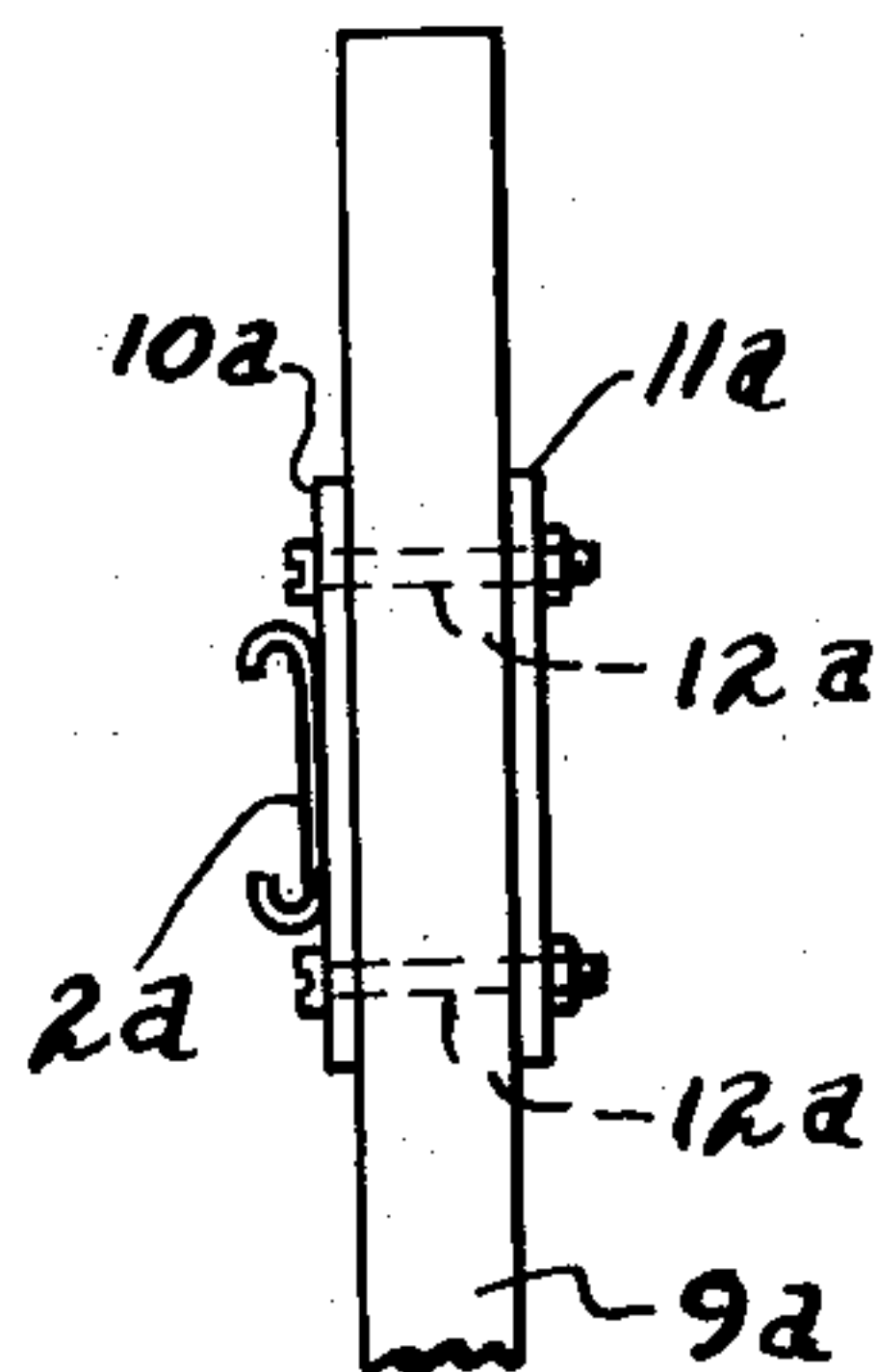


Fig. 13



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10 Claims. (Cl. 211-46)

This invention relates to filing devices and in particular to such a device which is adapted to be used as a large type filing apparatus and in which basket-like insets are employed for receiving written matter.

The invention is based on the concept of such a device, which may be easily transported, assembled and disassembled, which requires a minimum of space, in which such insets, carrying written matter, may be safely guided and handled, and which is simply designed and constructed.

According to the invention, the apparatus is constructed as a frame which may be disassembled and serves to receive travelling basket-like insets which in turn are intended to receive the written matter. In developing this inventive idea, an arrangement has been found to be particularly advantageous which is characterized by the feature that the frame which may thus be disassembled comprises hollow steel supporting beams of square cross-section or the like, which are interconnected at their upper and lower ends by removable flat or angular iron bars. By removing these upper and lower connecting rails which may engage the supporting beams by means of pins, the remaining individual members of the frame may be stacked, thus requiring but little room. It may easily be conceived that the assembly and disassembly is thus extremely simple and may be effected without the use of any tools or material. The guide rails are therefore advantageously made of U-shaped strap iron and the guide rollers of the basket-like insets run therein. These guide rails also serve as connecting braces which considerably increase the strength of the supporting frame.

According to the invention, the guide rails may be provided with special elevations or projections in order either to ensure an inclined position of the basket-like inset, if it is drawn outwardly to facilitate its inspection, or to provide a central catch, whereby the basket-like insets in which the written matter is suspended may be operated from both sides of the frame.

The basket-like insets are adapted to the characteristic of the device. They are made of wire or the like and are characterized by a very low minimum weight and excellent stability. If the insets are constructed open at the bottom, the files may be suspended therein, thus saving space. In other words, the height of the hanging files is not dependent on the height of the basket-like insets.

A transverse horizontal bracing and two transverse bracings between the lower and upper frames of the inset, in diagonal arrangement, divide the inset in two equal areas and prevent the sliding of the files from one compartment into the other, particularly when the insets are in inclined position. Downward projections serve to detain the insets in the middle, thus preventing the insets from being pushed too far into the frame.

The following features are characteristic of the invention:

(1) Coupling two braces to form one compartment

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which is accessible from either side of the frame and thus permitting much better utilization of the device;

(2) Inclined position of the basket-like insets when these are partially pulled out;

(3) Guide rails with elevations in the form of a triangle or a rectangle to guide the rear axle in the inclined position of the inset;

(4) Projections at the center of the guide rails which arrest the movement of the insets;

(5) A disassemblable frame.

A further feature of the invention resides in the fact that the insets which may be partially pulled out are supported on an inclined plane in the cabinet and are releasably held thereon by conventional catch means. It is also possible, within the scope of the invention, to provide in a level of the filing office frame, in upper compartments which are accessible with difficulty, planes which are inclined from approximately the center to either of the sides of the cabinet, for supporting the insets which can be partially drawn outwardly.

The insets which serve to receive the written matter are guided in rails by means of lateral guides or rollers. These guide rails are provided with projections which effect the inclined position of the retractable filing insets. The projections of the upper guide rail portions are provided according to the invention with adjustable stops for changing the height of the catch.

The inner guides which are preferably constructed in the form of rollers may be guided in rails which are horizontally mounted on the filing frame, the outer guides for the filing inset being preferably in the form of rollers at the filing office frame, the filing inset sliding over these guide members or rollers with skids which are profiled in accordance with the desired inclination. For swingability the filing insets may be mounted on telescopic rails and may be positioned on the respective outer displaceable rail of the telescopic rails. These telescopic rails are supported in the filing office frame, swingably about a certain angle of inclination.

The invention will be apparent from the following description when taken in connection with the accompanying drawings.

In the drawings,

Fig. 1 shows the assembled device with a basket-like double inset,

Fig. 2 is a detail of the frame,

Fig. 3 shows the inset tilted into the inclined position by the central elevation of the lateral guide rails,

Fig. 4 shows the inset stopped by the central downward projection,

Fig. 5 shows the division of the inset in two compartments which may be operated from the right and left hand sides or from the front or rear sides,

Fig. 6 is a perspective view of the double inset,

Figs. 7-9 show further features of the apparatus,

Fig. 10 is a view on a larger scale of an upwardly bent portion of the guide rails,

Fig. 11 shows a portion of the guide rails according to the embodiment of Fig. 10,

Figs. 12 and 13 show two parallel brackets between which the guide rails may be clamped with vertical adjustment.

Referring to Figs. 1 and 2, there shown at 1 the drawn steel square tubes which are engaged by pin-like joining pieces 2 of the flat or angular bars 3 provided on top and bottom. This construction renders possible easy assembly and disassembly without requiring any tools or additional material. The guide rails have a U profile and a central elevation or projection 12.

The double insets which are formed as basket-like cages of wire may be seen in Figs. 1, and 3 to 6 and

are designated by the reference numeral 4. The insets run on wheels or rollers 5 within the lateral guide rails 6. Three axles 7, 8 and 9 are provided for each inset. The associated rollers are supported on ball bearings. This is advantageous for handling the cages and is preferable for reasons having regard to the displacement of the center of gravity. The basket-like insets serve to receive the written matter which is suspended therein in the form of downward hanging files and suspended troughs, in order to save space within the device. The horizontal transverse bracing 10 and the diagonal transverse bracing 11 divide the inset into two equal compartments A and B and prevent, particularly in the inclined position shown in Fig. 3, the files from sliding from the compartment B into compartment A and vice versa.

The guide rail elevation previously mentioned is shown at 12 in the form of a triangle. In extracting the basket-like inset 4, the inset is placed in an inclined position by engaging wheels or rollers 5 with elevations or projections 12 so that the suspended files may easily be inspected.

The rails of the lower stories are provided with downward projections which are shaped to conform to the curvature of the rollers 5. The projections may be seen at 13 in Fig. 4. These projections represent a form of catch for the center position of the inset since, otherwise, the inset may be pushed in too far from either side.

The lower rails of the frame are advantageously provided with two individual rolling baskets, forming independent elements which may thus be individually removed from the frame, to be placed on, e.g., a table. The documents may thus be inspected without stooping, even when working with the lowermost insets. The frame or floor is also easily accessible for cleaning.

A limiting bar 14 (Fig. 7) may additionally be provided on the insets. The limiting bar 14 extends horizontally and in parallel relation to the central axle 8. It is mounted after inserting the insets by passing it through two clips 15 which are welded advantageously to the inset frame and by securing the clips by means of two pins 16. As shown in Fig. 8, the ends of the bar 14 extend beyond the width of the insets. These stop the extraction of the inset when the inset has been extracted half-way. The two ends of the limiting bar 14 then engage the two supports 17 and prevent an inadvertent extraction. They also provide the inset also with a better guide when it is in inclined position, the rear axle engaging with its wheels two triangular elevations as may be seen in Fig. 3. For better handling, these elevations may be arranged also as shown in Fig. 9.

In the filing frame of Fig. 10, there are provided guide rails 2a which are bulged upwardly, as shown at 3a. Stops 4a are provided in these bulges which are made of rubber and may be adjusted in height by means of the pins 5a and adjusting screws 6a. Thus the most suitable tilted position may be provided by adjustment of the buffers 4a. As may be seen in Fig. 11, one rail is provided with two such bulges 3a and three much flatter bulges 7a at the lower portion of the rail 2a. The rail 2a may be adjusted in height between the supports 8a and 9a of the frame by means of the plates 10a and 11a. The bolts 12a are slackened accordingly and tightened again after reaching the desired position.

The stories, as shown for instance in Figs. 11 and 12 may also be adjusted at will in their spacing from each other, this adjustment even being possible any time after the final completion.

While the invention has been illustrated and described in the aforesaid embodiments, it is not intended to be

limited to the details shown since various modifications and structural changes may be made without departing in any way from the spirit of the present invention.

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

1. A cabinet-like filing device for office papers which comprises an assemblable and disassemblable frame adapted to receive a plurality of basket-like insets in superimposed relationship, said frame being composed of upright members and of guide rails therebetween capable of accommodating said insets, said guide rails having a U-profile and a vertical projection in the center, said insets having rollers for engagement with said rails, whereby said insets are forced to take up an inclined position on said projections when moved in said rails for withdrawal from said frame.

2. The device according to claim 1, wherein said guide rails arranged in the lower portions of said frame have a downward projection for effecting a stop to said insets upon their withdrawal from, and introduction into, said frame, respectively.

3. The device according to claim 1, wherein said guide rails are horizontally arranged metal bars having a U-shaped profile.

4. The device according to claim 1, wherein said guide rails in the upper portion of the frame have a triangularly shaped upward projection for engagement with the rollers of said basket-like insets.

5. The device according to claim 1, wherein said basket-like insets are open at the bottom and are thus capable of accommodating office papers of larger size than corresponds to the height of said insets.

6. The device according to claim 1, which comprises in addition adjusting means provided at the center projection, said means comprising adjustable stops for changing the inclination of the insets as desired.

7. The device according to claim 1, which comprises in addition means on said frame for adjusting the height of said guide rail, said means comprising substantially vertical posts, a horizontal plate mounted slidably therebetween and capable of accommodating said guide rail, and bolts for clamping the plate in adjusted position.

8. A cabinet-like filing device for office papers, which comprises an assemblable and disassemblable frame adapted to receive a plurality of basket-like insets in superimposed relationship, partitioning members within the basket-like insets, dividing said insets into two halves, each half being accessible from an opposite side of the cabinet-like filing device, said frame being composed of upright members and of guide rails therebetween capable of accommodating said insets, said guide rails having a U-profile and a vertical projection in the center, said insets having rollers for engagement with said rails, whereby said insets are forced to take up an inclined position on said projections when moved in said rails for withdrawal from said frame.

9. The device according to claim 8 wherein said partitioning members comprise transverse and diagonal elements.

10. The device according to claim 9, wherein a horizontally extending limiting bar is provided on the inset which in width exceeds the width of said inset, thereby stopping the withdrawal of the inset at a desired point.

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