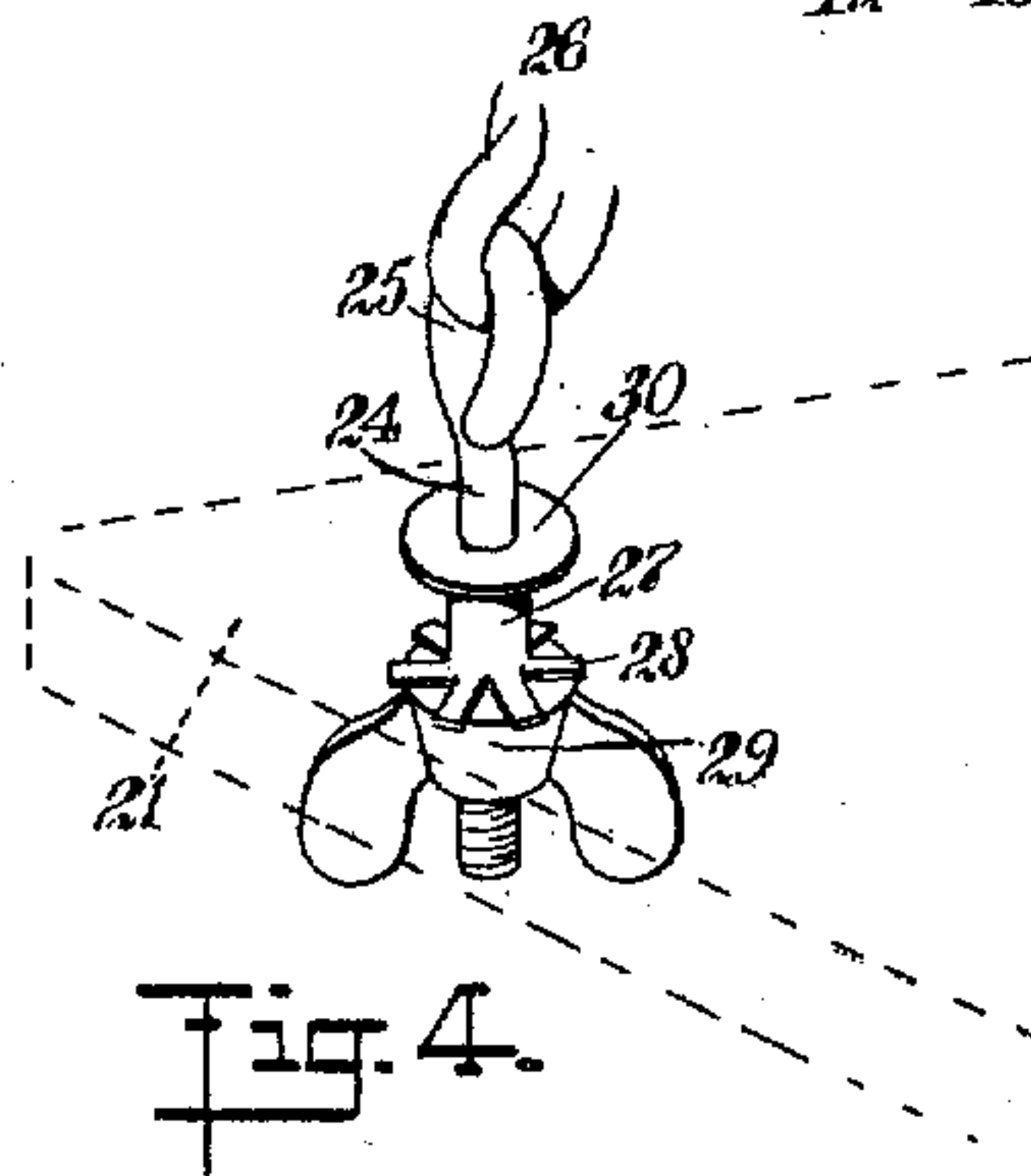
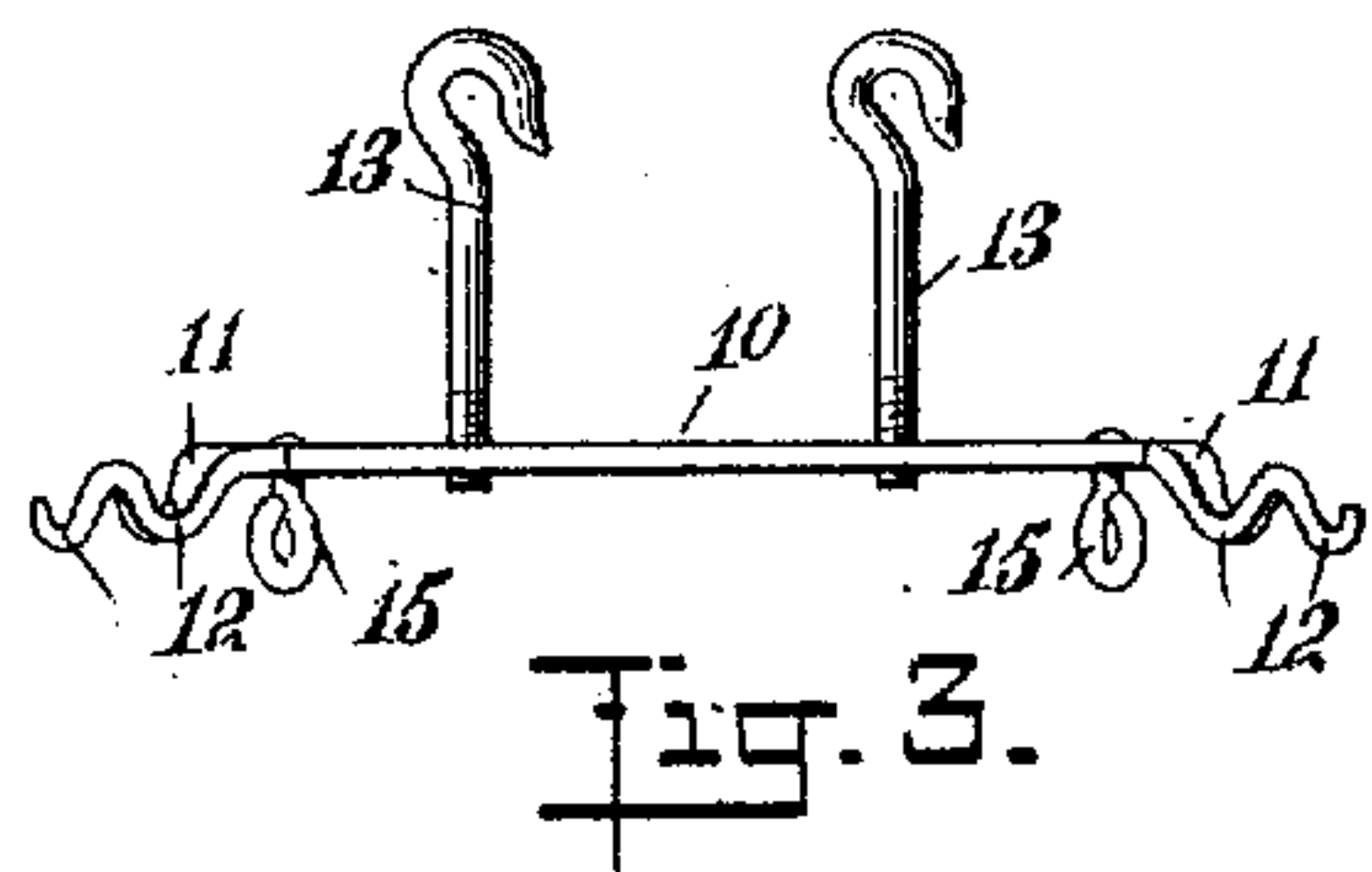
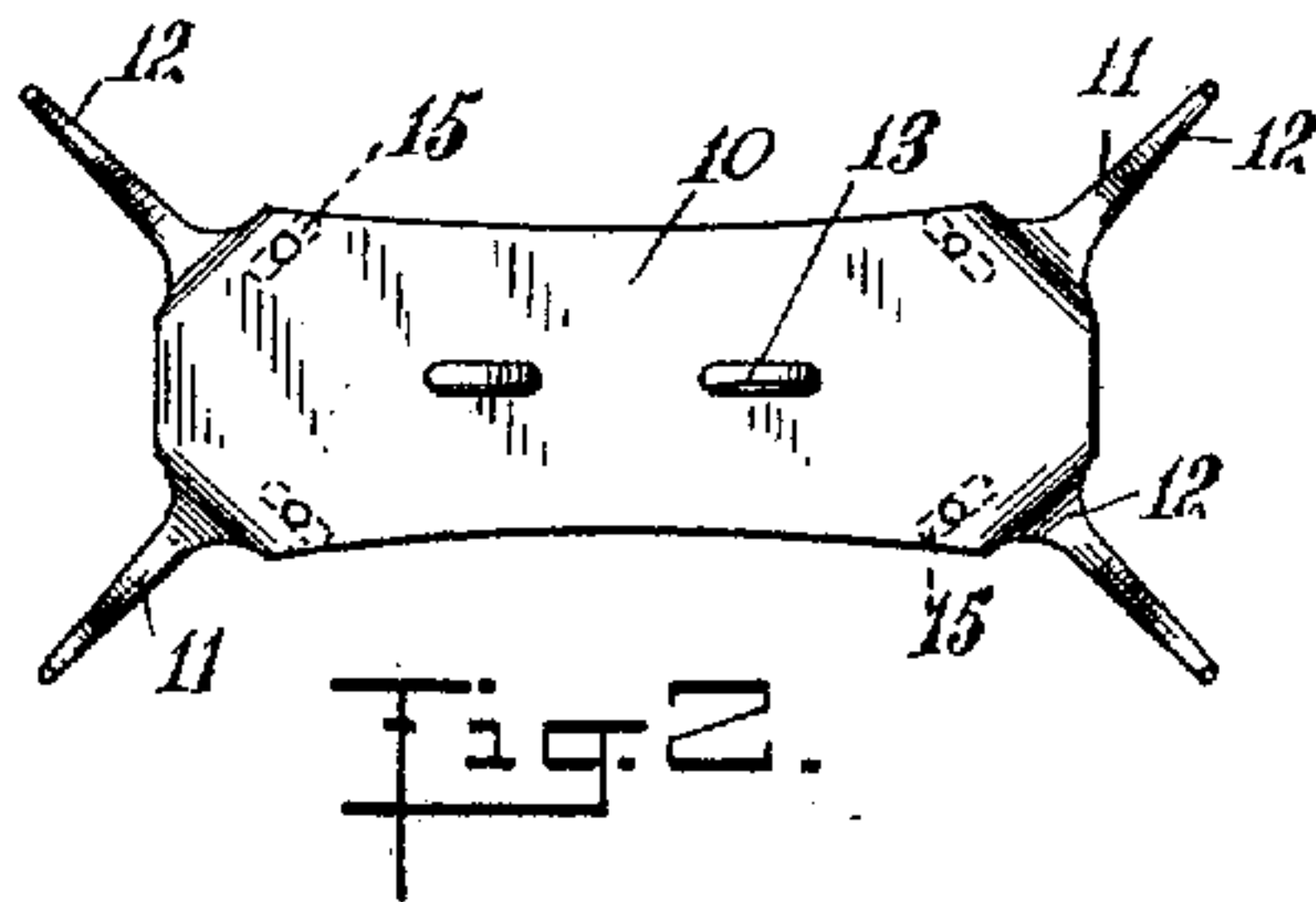
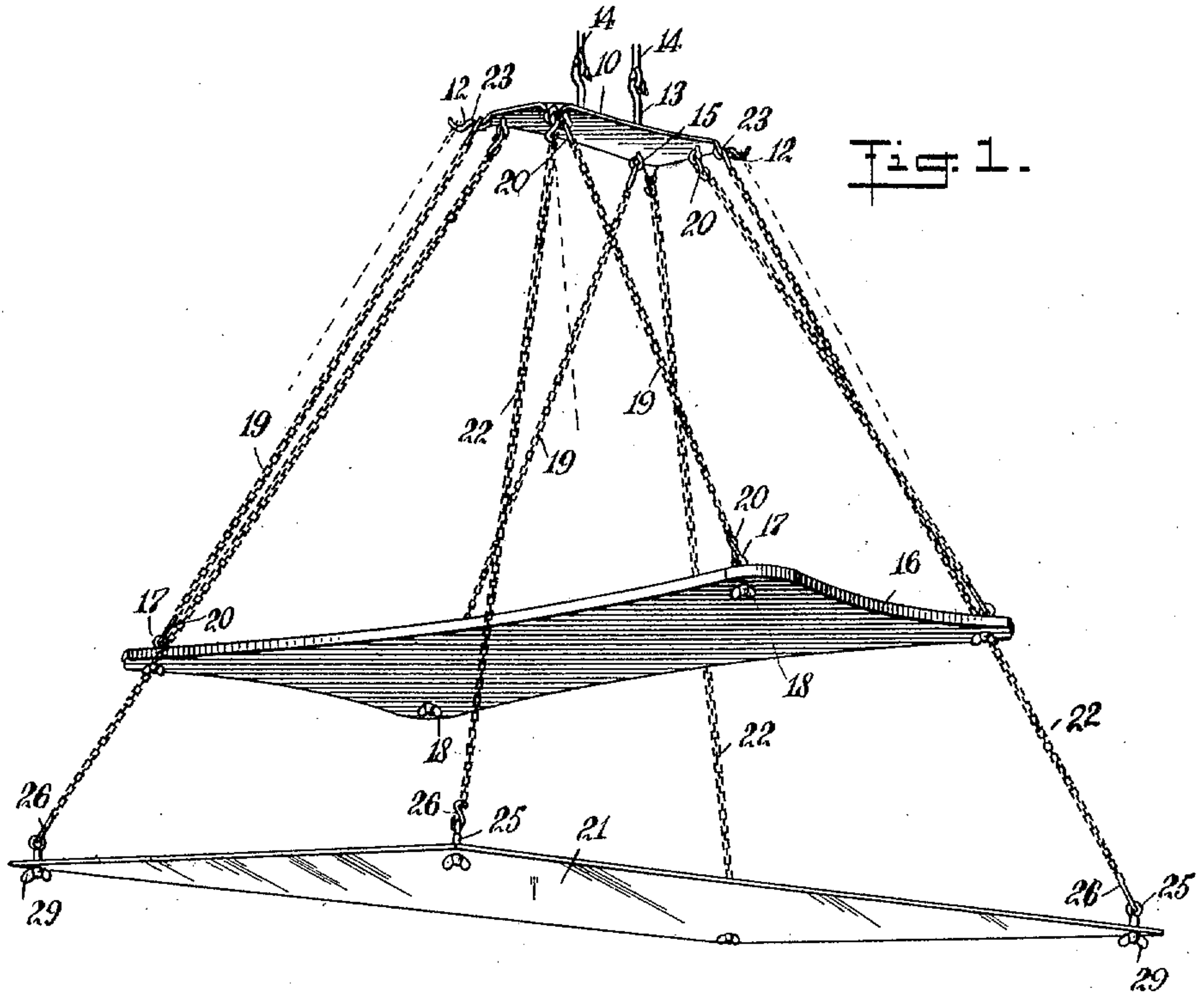


M. L. STERN.  
 DISPLAY APPARATUS.  
 APPLICATION FILED NOV. 6, 1909.

967,685.

Patented Aug. 16, 1910.



WITNESSES

*John K. Brachvogel*

Fig. 4.

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 ATTORNEYS.

# UNITED STATES PATENT OFFICE.

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## DISPLAY APPARATUS.

967,685.

Specification of Letters Patent.

Patented Aug. 16, 1910.

Application filed November 6, 1909. Serial No. 526,531.

*To all whom it may concern:*

Be it known that I, MORRIS L. STERN, a subject of the Czar of Russia, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Display Apparatus, of which the following is a full, clear, and exact description.

This invention relates to apparatus for displaying merchandise of different kinds, in shops, show windows or other places of this character, and relates more particularly to display apparatus comprising a support having resilient parts, hangers depending from these parts and having removable connection therewith, and a shelf secured to said hangers, the shelf serving to carry the merchandise or other articles to be displayed.

An object of the invention is to provide simple and inexpensive apparatus for displaying merchandise of different kinds, and in various quantities; which can be easily set up and taken down at any place desired for the display of the merchandise; which, when not required for use, can be taken down and packed into small compass for shipment or storage; which can be adjusted for displaying different quantities of merchandise, and in which the shelves can be fashioned from different materials.

A further object of the invention is to provide special means for securing a shelf fashioned from glass or like material, to hangers or other supporting devices so that the shelf has a cushioned engagement with the securing means, and in which these can be easily placed in position or removed.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view of an embodiment of my invention; Fig. 2 is an enlarged plan view of the support; Fig. 3 is a side elevation of the support; and Fig. 4 is an enlarged perspective view of the special means for securing a glass or like shelf to the hangers.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while I have shown

in the accompanying drawings, for example, shelves fashioned from wood and from glass, any other material adapted for the purpose can be employed equally well. I have found that glass shelves are attractive in appearance, are easily kept clean, and permit the merchandise, if necessary, to be viewed from the under side. However, this material has a decided disadvantage in that it is of fragile nature, and for this reason I provide, as will appear more clearly hereinafter, special cushioned means for securing a glass shelf to the hangers. I have shown chains used as hangers, but any other elongated members adapted for the purpose can be employed if so desired. These and others of the details of construction form no part of my invention, and can be varied in accordance with individual preference and special conditions, without departing from the underlying spirit of the invention. In this connection too, it may be said that while I have shown for example, two shelves, one only, may be used, or the number may be increased beyond two, as the exigencies of the use of the apparatus demand.

Referring more particularly to the drawings, I employ a support fashioned from sheet metal or the like, and substantially rectangular in form. It has at each corner a diagonally and laterally extended arm preferably formed integral therewith, and possessing a certain normal resiliency. The arms are bent to form two or more recesses or depressions and are preferably tapered. Hook bolts having threaded parts mounted in suitably threaded openings of the support, serve for mounting the latter in place. By means of the bolts the support can be, for example, suspended from eye-bolts secured to a ceiling or at any other suitable place. Eye-bolts are secured at the under side of the support, near the corners thereof, having threaded stems located in suitably threaded openings of the support.

A shelf fashioned for example, from wood, and of any suitable ornamental form, is provided near its corners with eye-bolts having the stems located in openings of the shelf, and secured therein by butterfly nuts. I employ hangers consisting for example of chains, and having at each end S-hooks adapted to engage respectively, the eye-bolts of the support and the shelf, to suspend the latter in posi-



tion. The shelf may be hung at any suitable distance below the support, within the limits of the lengths of the hangers, as the S-hooks need not be associated with the chains at the end links but can be secured at any intermediate links, so that the effective lengths of the hangers can be varied.

Underneath the shelf 16, I employ a second shelf 21, consisting for example, of a sheet of plate glass or the like. Chain hangers 22 are employed for suspending the shelf 21, and have at their upper ends S-hooks 23 adapted to be removably mounted in the depressions or recesses 12 of the arms 11. Near each corner, the shelf 21 has an opening in which is located the shank 24 of an eye-bolt 25 adapted to receive the lower S-hooks 26 carried by the hangers 22, for mounting the shelf 21 in place. Each of the shanks 24 has mounted thereon a sleeve 27 of rubber or like cushion material, which, at the lower end, has lines of severance forming tongues 28, which are outwardly disposed at the under side of the shelf 21, as is shown most clearly in Fig. 4, so that the butterfly retaining nuts 29 can seat thereagainst. In this way the connection between the eye-bolts 25 and the shelf is cushioned. A metal or other washer 30 is mounted upon each of the stems 24 at the upper face of the shelf.

To assist in guarding the shelf 21 against fracture, the arms 11 are made sufficiently thin so that they are normally resilient. The resiliency of the support for the shelf 21 can be increased by locating the S-hooks 23 in the outer depressions 12 of the arms. On the other hand, these outer depressions of the arms can be used for supporting further hangers to carry a third shelf, as indicated in dotted lines in Fig. 1.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:—

1. Display apparatus, comprising a support, superposed, independent shelves arranged transversely of one another, and independent hangers for securing said shelves to said support.

2. Display apparatus, comprising a support having resilient arms, hangers depending from said arms and having removable connections therewith, and a shelf carried by said hangers.

3. Display apparatus, comprising a support, means for suspending said support, said support having resilient parts, hangers removably and adjustably carried by said resilient parts and depending therefrom,

and a shelf removably carried by said hangers.

4. Display apparatus, comprising a support having arms, hangers depending from said arms, a shelf secured to said hangers, further hangers independent of said first hangers, depending from said support, and a second shelf carried by said further hangers, said shelves being superposed and arranged transversely of one another, said support having means for securing it in position.

5. Display apparatus, comprising a support, means for mounting said support in position, hangers depending from said support, a shelf carried by said hangers, other hangers carried by said support and having resilient connections therewith, and a second shelf carried by said other hangers, said shelves being independent of one another.

6. Display apparatus, comprising a support, means for mounting said support in position, hangers depending from said support, a shelf, means for securing said shelf to said hangers at different points along the lengths of said hangers, said support having resilient arms, hangers depending from said resilient arms, and a second shelf carried by said last-mentioned hangers and adapted to be secured thereto at different points along the lengths thereof.

7. Display apparatus, comprising a support having divergent, resilient arms, each provided with a plurality of depressions, hangers, each having a member adapted to be removably positioned in one of said depressions, and a shelf carried by said hangers.

8. In display apparatus, a shelf having openings, hangers for supporting said shelf, means for securing said hangers to said shelf, each of said means consisting of a member having a shank adapted to be received by an opening of said shelf, a cushion mounted upon said shank and consisting of a tubular member having longitudinal incisions forming laterally disposed tongues, and a stop carried by said shank, adapted to abut against said shelf, said tongues being positioned between said shelf and said stop member.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MORRIS L. STERN.

Witnesses:

JOHN K. BRACHVOGEL,  
PHILIP D. ROLLHAUS.