

No. 650,700.

Patented May 29, 1900.

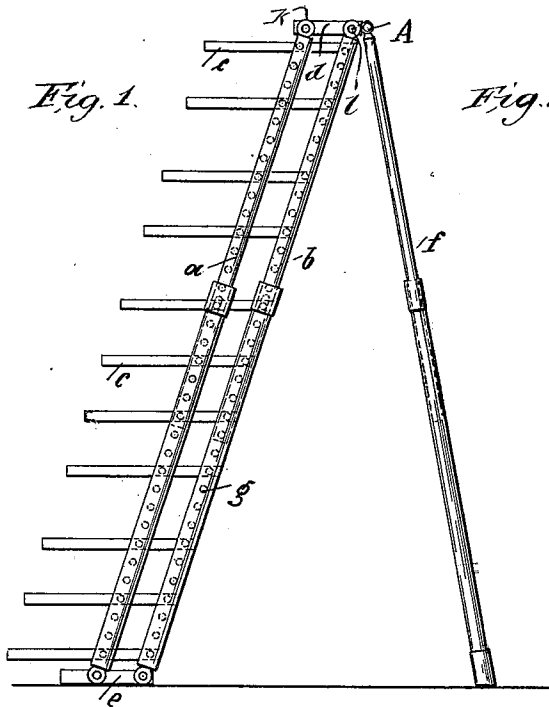
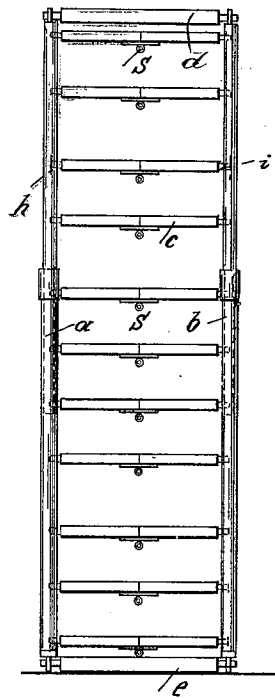
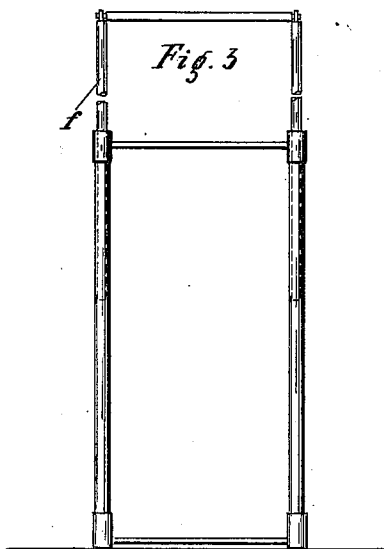
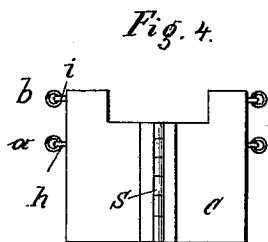
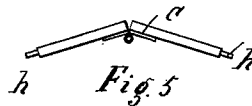
P. WILLNER.

DECORATING STAGE FOR CLOTHS, &c.

(Application filed June 16, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:

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2 Sheets—Sheet 2

Fig. 6.

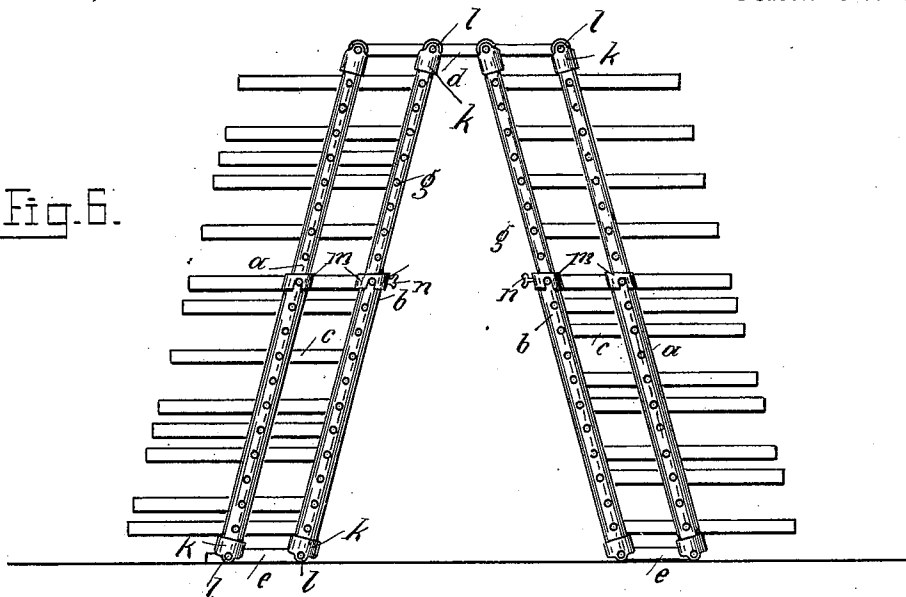


Fig. 7.

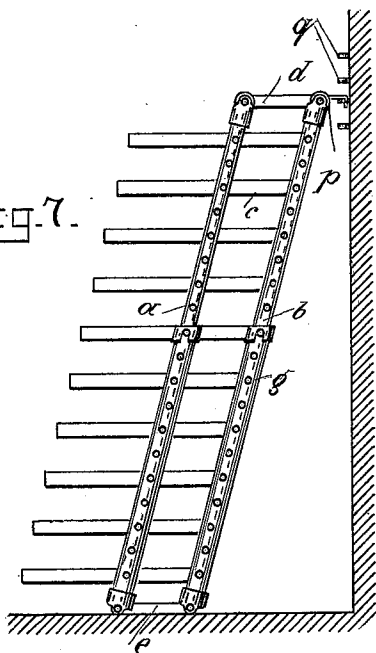


Fig. 8.

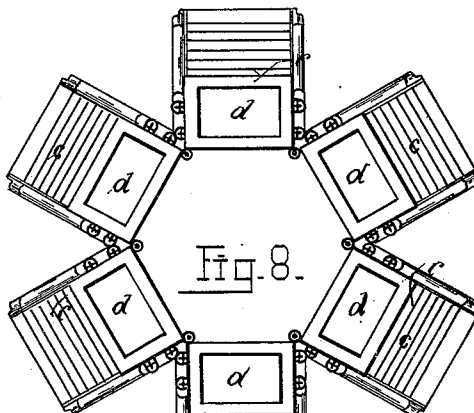
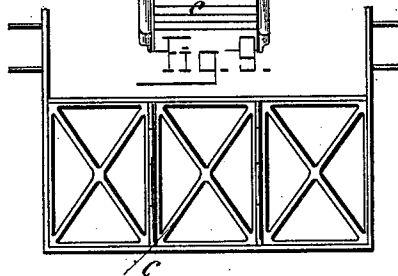


Fig. 9.



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UNITED STATES PATENT OFFICE.

PHILIPP WILLNER, OF AIX-LA-CHAPELLE, GERMANY.

DECORATING-STAGE FOR CLOTHS, &c.

SPECIFICATION forming part of Letters Patent No. 650,700, dated May 29, 1900.

Application filed June 16, 1899. Serial No. 720,870. (No model.)

To all whom it may concern:

Be it known that I, PHILIPP WILLNER, a citizen of the German Empire, residing at Aix-la-Chapelle, Rhenish Prussia, Germany, have invented a new and useful Decorating-Stage for Cloths and the Like, of which the following is a specification.

My present invention relates to a new and useful decorating stage or scaffold for cloths and the like in which cloths and the like of different thickness in respect to the rolled pieces can be arranged one above the other and that in such a way that I can take out of the stage any intermediate piece without being obliged to take down all the upper pieces; and the objects of my improvement are, first, to afford facilities for the proper adjustment of the supporting-plates for the cloths independently of each other in respect to the distance from each other; second, to provide means for putting the stage into a position more or less oblique, and, third, to provide an adjustable frame in order to make the stage more or less high *ad libitum*. I attain these objects by the scaffold illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the device. Fig. 2 is a front view of the same. Fig. 3 shows the supporting-frame for the stage. Figs. 4 and 5 show the view from below of the bearing-plates and the cross-section of the frame-rods of the stage, respectively, and the front view of a bent bearing-plate separately. Fig. 6 shows the side view of two stages hinged to a common upper frame. Fig. 7 is the side view of a decorating-stage, to the upper frame of which are secured hooks adapted to engage eyes secured in the wall of the shop. Fig. 8 is the top view of a hexagonal upper frame to the side edges of which are hinged decorating-stages. Fig. 9 shows the view from below of a shelf constructed of three sections hinged one to the other and made of cast-iron frames.

Similar letters refer to similar parts throughout the several views.

Two tubes or rods *a b*, referred to hereinafter, are pivoted at each side of an upper frame *d* and with their under extremities at each side of an under frame *e*. The said frames *d* and *e* can be made of quadrangularly-

jointed tubes or rods or can be simple plates or boards. They are provided each with two pins *l* at both sides, upon which pins *l* the ends of the aforesaid tubes *a b* are pivoted. For that purpose the extremities of the tubes are provided too with eyes *k*, that can be made integral with the tubes or separately mounted as sleeves on such extremities. The tubes are formed of two separate parts, the one being able to slide in the other and to be secured to it by means of set-screws or the like. All tubes are provided with holes *g* at certain distances from each other. Into these holes I can put two pins *h i*, secured to each side of the supporting-plates or bearing-boards *c*. In order to bring the said boards between the tubes *a b* and to be able to put the pins *h i* into the said holes, I have constructed the boards or shelves of two parts hinged one to the other from below by means of a hinged joint *s*. So I can bend the boards vertically upwardly, as it is shown in Fig. 5, but not in a downward direction, the edges of the two parts of the board touching one toward the other and preventing in this manner the shell from being bent downwardly. Now when the board *c* is in a position as shown by Fig. 5 I can put it between the four rods or tubes *a b*, and the extremities of the pins *h i* enter into the holes *g* of the said tubes. Hereafter when the boards are pressed downwardly they are stretched into a straight direction, while the pins *h i* enter entirely into the holes *g*.

I can arrange the boards in corresponding holes at will and regulate in this way the distance of the boards from each other in respect to the thickness of the cloth to be put between the boards and which is supported by such boards. In consequence whereof I can take out of the stage any of the cloths without being obliged to take down the upper pieces, since they are all supported by bearing-boards *c*.

The supporting-frame *f*, Figs. 1 and 3, is hinged to the upper frame or board *d* of the stage, so that by enlarging the distance between the under extremity of the frame *f* and the under ends of the tubes *b* I can put the stage into a more oblique position. The tubes *a b* move around their gudgeons *l* at the up-

per and under frame of the stage, as well as around the pins *h i* at the boards *c*, and the latter maintain their horizontal position.

I prefer to make the tubes telescopic ones, the sections of which can slide one in the other. In consequence whereof it is possible to elongate the decorating-stage at will. In order to rigidly secure the sections of the telescopic tubes one to the other in a certain position, the upper slit ends of the under sections are provided with a collar *m*, through which pass set-screws *n*, in order to press the slit ends of the said sections.

The supporting-frame *f*, Figs. 1 and 3, hinged to the upper horizontal frame of the stage and which makes the stage an insulated one, is constructed of two telescopic tubes, the outer ends and the middle parts of which are connected by means of cross-rods *o*.

Instead of providing the stage with a supporting-frame, as described hereinbefore, I can hinge it to a wall, and by moving the under extremity of the stage more or less from the wall I can put the stage into a position more or less oblique. This arrangement is represented in Fig. 7 of the annexed drawings. The upper frame *d* is provided with hooks *p*, which engage eyes *q*, secured in the wall of the shop. There are several eyes *q* vertically one above the other, and by engaging the said hooks *p* in eyes *q*, situated more or less high, I can give to the stage a position more or less oblique. Further, I can make the upper frame *d* a polygonal one, and at each side of such polygon I can hinge the upper extremities of tubes *a b*, as hereinbefore referred to. This arrangement is represented in Figs. 6 and 8 of the annexed drawings. Fig. 6 shows but two stages hinged to a common upper frame. One of these stages forms the support to the other, and vice versa. Fig. 8 is the top view of a hexagonal upper frame, to each of the edges of

which is hinged a decorating-stage. The bearing-boards *c* can also be constructed of three separate parts hinged one to the other. Such a shelf, made of three separate sections hinged one to the other, is represented from below in Fig. 9 of the annexed drawings. The sections are cast-iron frames. The outer sections are provided with outer side ledges elongated in the rear direction, which elongations are furnished with the two pins *h i* to engage the above-mentioned recesses *g* of the telescopic tubes *a b*.

I am well aware that prior to my invention display-racks with shelves have been made in order to support books or to form music-standards in which the shelves swing around studs in order to take a position more or less oblique. I know, further, that there have been manufactured racks for exhibiting garments in which the standards are made of telescopic tubes. Therefore I do not claim such institutions broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

In an adjustable decorating-stage for cloths and the like, the combination with an upper and under frame or plate, each provided with two pins *l* at both sides, of two telescopic tubes or rods hinged at each side of the said frames upon the said pins *l*, the said tubes being provided with holes at certain corresponding distances from each other, supporting plates or shelves extending forwardly beyond the front telescopic tubes and made of two parts hinged one to the other and provided at each side with two pins, essentially as described and for the purpose specified.

In witness whereof I have hereunto set my hand in presence of two witnesses.

PHILIPP WILNER.

Witnesses:

JOSEPH MÖHLIG,
G. SCOTT.