Aug. 6, 1929. S. A. HAMILONOFF 1,723,235

BED EXTENSION SUPPORT FOR DAVENPORTS

Filed Nov. 23, 1927 2 Sheets-Sheet 1

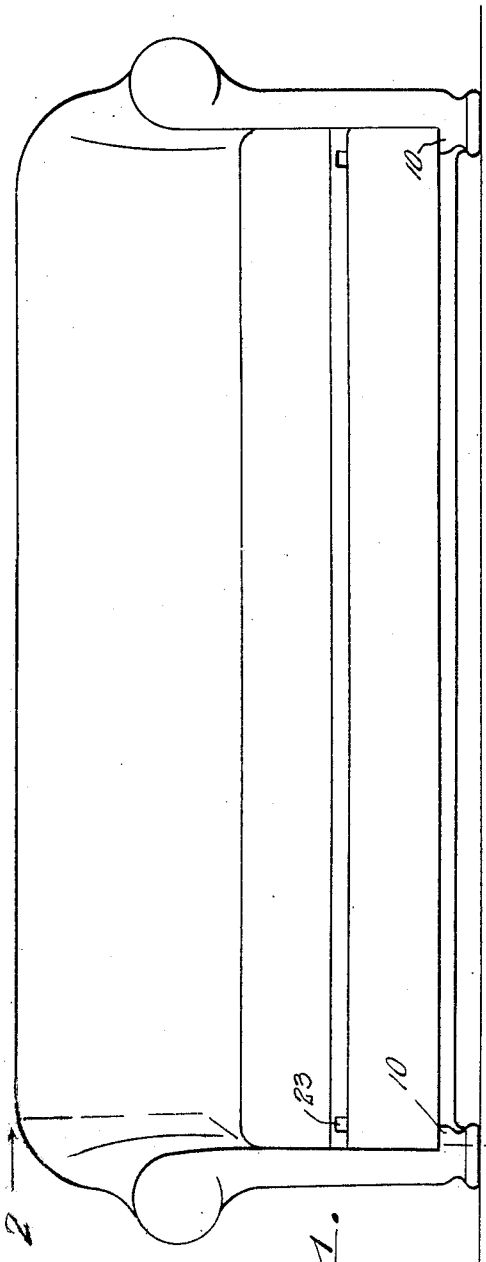


Fig. 1.

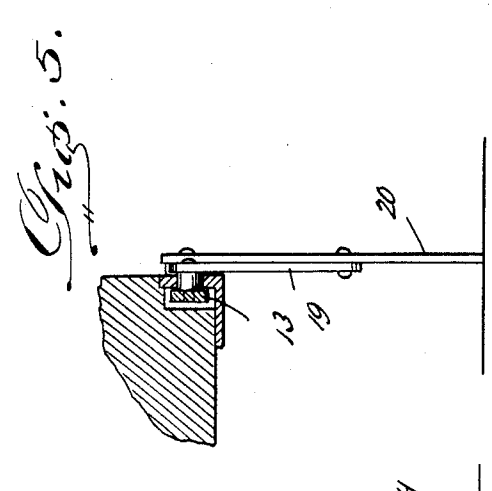


Fig. 5.

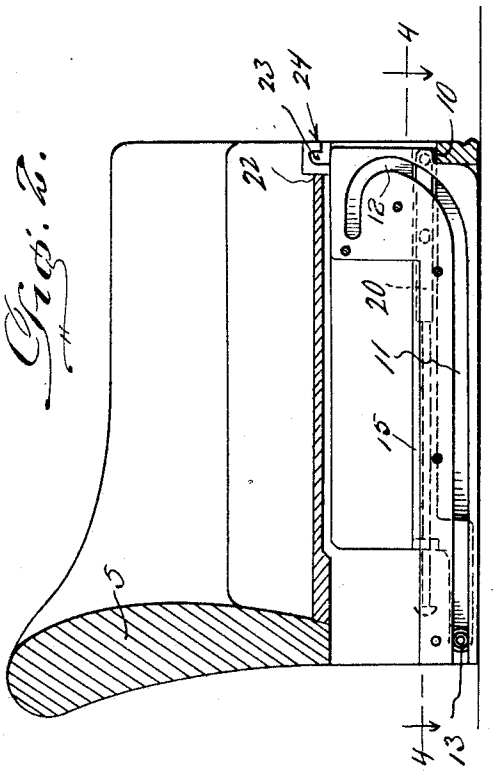


Fig. 2.

Inventor
Simon A. Hamilonoff

By Clarence A. O'Brien
Attorney

Aug. 6, 1929. S. A. HAMILONOFF 1,723,235

BED EXTENSION SUPPORT FOR DAVENPORTS

Filed Nov. 23, 1927 2 Sheets-Sheet 2

Fig. 3.

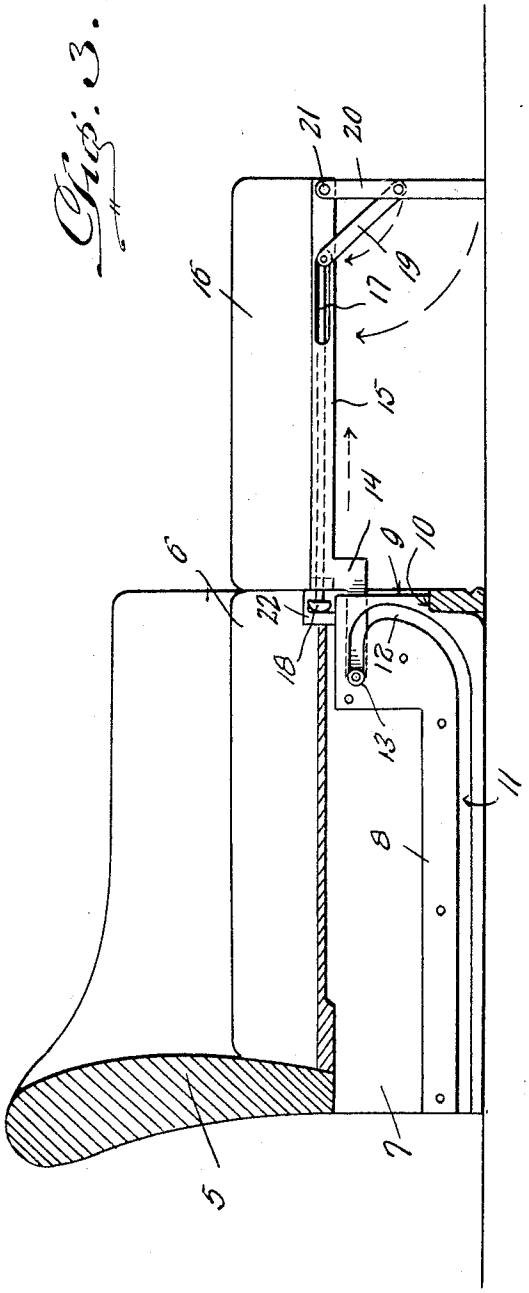
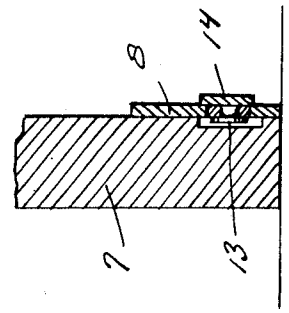


Fig. 6.



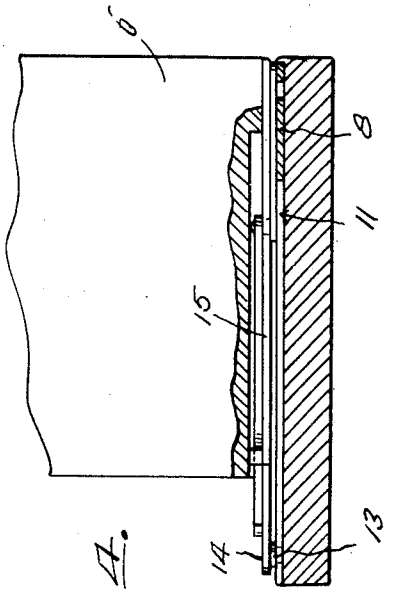


Fig. 4.

Inventor

Simon A. Hamilonoff

By Clarence A. O'Brien

Attorney

Patented Aug. 6, 1929. 1,723,235

UNITED STATES PATENT OFFICE.

SIMON ANDREEVICH HAMILONOFF, OF HARTFORD, CONNECTICUT, ASSIGNOR TO WILLIAM ZACHS AND JOSEPH SAFRAN, OF HARTFORD, CONNECTICUT.

BED-EXTENSION SUPPORT FOR DAVENPORTS.

Application filed November 23, 1927. Serial No. 235,233.

The present invention relates to davenports and has for an object to provide a bed extension for the same including supporting means for the extension when arranged in sleeping position and also including guide means for the extension permitting the same to be easily and quickly moved into position beneath the davenport for arranging the same in normal position.

A still further object is to provide a supporting means for the bed extension cooperating with the guide means designed for moving the extension into its normal and extended position, said supporting means being adapted for collapsing movement and when moved into its collapsed position operates also to initially move the bed extension along the guide in a direction for returning the extension to its normal position.

A still further object is to provide a device of this character of simple and practical construction, which is strong and durable, neat and attractive in appearance, relatively inexpensive to manufacture and install in operative position and otherwise well adapted to the purposes for which the same is intended.

Other objects and advantages reside in the special construction and combination of the various elements comprising the invention, reference being had to the accompanying drawings, forming a part hereof, wherein:

Figure 1 is a view in front elevation of a davenport embodying my invention,

Figure 2 is a transverse vertical sectional view taken substantially along a line 2—2 of Figure 1,

Figure 3 is a similar view showing the bed extension in outwardly disposed position,

Figure 4 is a fragmentary sectional view taken along a line 4—4 of Figure 2,

Figure 5 is a fragmentary detail of one of the supporting legs and

Figure 6 is a sectional view through the guide plate for the roller carried on the inner end of the extension.

Referring now to the drawings in detail, I have shown my invention adapted for use in connection with a davenport 5 of conventional construction having a cushion 6 of the usual type disposed thereon. The ends of the davenport beneath the cushion 6 are preferably of a solid construction as shown at 7 and upon the inner face of which is arranged a guide plate 8 extending rearwardly of the davenport. The front of the davenport beneath the cushion 6 is open as indicated at 9 in Figure 3 of the drawing, the forward edge of each of the side boards 7 having shoulders 10 formed thereon extending in a direction across the front of the davenport adjacent the opening 9 in the front thereof.

Each of the plates 8 are provided with slotted openings constituting guides 11, the rear portion of the guides being horizontally disposed terminating at their forward ends into an upwardly curved section 12, the upper portion of which extends rearwardly for a slight distance at a horizontal plane.

The guides 11 are adapted to receive a flanged roller 13 for movement therein, said roller being mounted upon a rearwardly extending arm 14 of a plate member 15 attached to the under side of a bed extension 16.

The plate member 15 constitutes a housing for a slidably mounted rod 17 having its rear end protruding from the rear of the bed section with a head 18 formed thereon. The forward end of the rod 17 is attached to one end of a link 19 having its opposite end connected intermediate the end of a support 20, one end of said support being pivotally attached as at 21 to the forward lower edge of the bed extension 16 with the opposite end thereof arranged to extend downwardly from the extension so as to support the same in a manner as illustrated in Figure 3 of the drawing.

At the forward lower edge of the cushion 6 adjacent each end thereof is arranged a plate 22 having a recess 23 formed therein with a downwardly depending shoulder 24 arranged across the upper edge of the recess and adapted to engage the inner edge of the head 18, after the same has been fitted therein, whereby to prevent the withdrawal of the head from the plate upon the horizontal movement of the rod 17. The recesses open toward the front of the davenport and permit the rods 17 to extend therefrom when the head 18 is disposed therein.

With the parts assembled in position as shown in Figure 3 of the drawing, it will be apparent that the said extension 16 will

be suitably supported in a horizontal position in extended relation with respect to the cushion 6 of the davenport, and may also be readily moved into position beneath the cushion 6 by moving the support 20 inwardly and upwardly in folded position against the under side of the extension 16 as indicated by the arrows in Figure 3, such movement of the support 20 operating to force the head 18 inwardly by reason of its connection through the rod 17 with the link 19, which thereby operates to force the extension 16 outwardly with respect to its association with the cushion 6 until the roller 13 reaches the curved section 12 of the guide whereupon the weight of the extension 16 will cause the roller 13 to move downwardly and inwardly along the guide 11 toward the rear of the davenport. At the same time it will be obvious that the head 18 will be released from the recess 23 in the plate 22 so as not to interfere with the inward movement of the said extension 16.

Upon the movement of the extension under the cushion 6 of the davenport in a position as shown in Figure 2 of the drawings, the forward edge of the extension 16 will rest upon the shoulder 10, thus enabling the extension to be supported above the floor when arranged in its inner position.

When desiring to move the extension outwardly into its outermost position, the front edge is pulled outwardly with the roller 13 supporting the rear edge in position for riding in the guide 11. The extension should be pulled outwardly with sufficient force to cause the roller to ride upwardly along the curved portion of the guide, and upon reaching the upper position in the guide the head 18 will enter the recess 23. Upon the continuation of the roller along the guide, in a slightly inward direction, the head will be held against movement and thus cause the rod 17 to swing the moving leg 20 downwardly into position for supporting the front end of the extension.

It is apparent that the shape of the guide 11 at its forward end may be altered in various ways and still obtain the desired results and I do not wish to limit the invention to any particular shape or construction in this respect. Also the plate member 15 may be constructed as an integral part of the bottom of the extension 16, if desired, any suitable means for slidably mounting the rod 17 being employed. The arm 14 may be constructed as a part of the plate or separate therefrom.

It is obvious that the invention is susceptible of various other changes and modifications, without departing from the spirit or scope of the invention or sacrificing any of its advantages, and I accordingly claim all such forms of the device to which I am entitled.

Having thus described my invention, what I claim as new is:

1. In a bed extension for davenports, a guide plate arranged at each end of the davenport and disposed beneath the davenport cushion, said plate having slotted guides formed therein with their forward ends curved upwardly and the upper end thereof extending rearwardly, a bed extension member having a support pivotally mounted at its forward edge, rollers carried at the rear edges thereof forming a support for maintaining the extension at a horizontal plane with respect to said cushion, said rollers being mounted for sliding movement in said guide and means connected with the forward support of the extension and operable upon the movement of the support to initially move the extension forwardly on the rollers and place the rollers in a position in the guide to render the rear end of the extension responsive to gravitation for continuing the movement of the rollers and the extension downwardly and rearwardly beneath the cushion.

2. In a bed extension for davenports, a pair of guide plates attached at opposite ends of the davenport beneath the cushion thereof and having slotted guides formed therein, said guides having a horizontally disposed rear portion and an upwardly curved forward portion terminating at its upper end in a horizontal rearwardly extended portion, a bed extension member having plates arranged at its under side at each end thereof, a pivotally mounted support at the forward edge of said plate, rollers extending from the rear end of said plate arranged for sliding movement in said guide and operating to support the rear edge of the extension in a horizontal plane with the davenport cushion, rods slidably mounted in said plate, links connecting the forward ends of the rods with said support, heads formed at the rear ends of the rod and retaining plates carried at the front edge of said cushion engaging said head whereby to prevent horizontal movement therebetween and adapted through the pivotal movement of said support to force said extension outwardly thus permitting the downward and rearward movement of the rollers operating to move such extension rearwardly beneath said cushion.

3. In a bed extension for davenports, a guide plate arranged at each end of the davenport having a regularly formed guide slot formed therein with its forward end extending upwardly and rearwardly, a bed extension member, a foldable support carried at the outer edge thereof and adapted for supporting the same in outwardly extending position with respect to said davenport, rollers attached to said bed extension member and arranged for sliding move-

ment in said guide whereby to permit the movement thereof outwardly of the davenport, and means carried by the extension and engageable with the davenport for moving said support into supporting position upon a movement of the extension outwardly, upwardly and inwardly, in accordance with the path defined by the movement of the rollers in said guides

4. In a bed extension for davenports, a guide plate arranged at each end of the davenport having a guide slot formed therein, a bed extension member adapted for disposal beneath the davenport and movable outwardly therefrom, a pair of foldable supports mounted at its outer edge, a pair of guide rollers carried at its inner edge and movable in said slot, said rollers cooperating with said support to maintain the extension in a horizontal outward position, said slots being adapted whereby to initially cause the horizontal movement of the extension followed by an inclined vertical movement thereof upon its movement into or out of extended position, and means operatively connected with said support adapted to initially move the extension toward its inner position upon the folding of said support.

In testimony whereof I have affixed my signature.

SIMON ANDREEVICH HAMILONOFF.