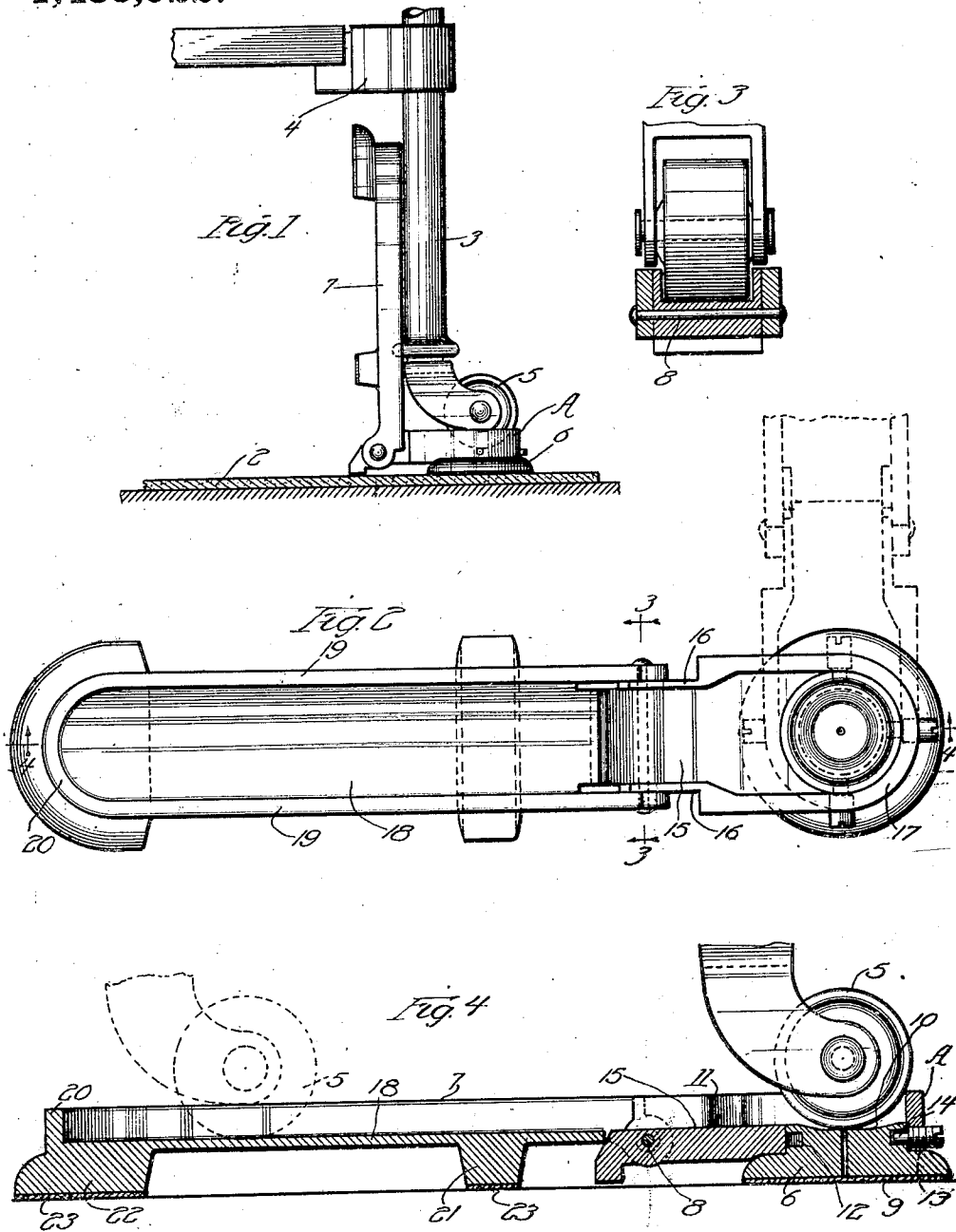


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 DEVICE FOR USE IN CONNECTION WITH MOVABLE FURNITURE.
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DEVICE FOR USE IN CONNECTION WITH MOVABLE FURNITURE.

Application filed May 15, 1919. Serial No. 297,269.

To all whom it may concern:

Be it known that I, PAUL F. WILLIAMS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Devices for Use in Connection with Movable Furniture, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to devices for use in connection with movable furniture.

One of the objects of the invention is to provide a simple, practical and effective device of the class specified.

Another object of the invention is to permit the movement of furniture such as beds, desks or like articles without injuring the carpets, rugs, or floors of the rooms over which they are moved.

Another object of the invention is to facilitate the movement of such articles of furniture, allowing them to be moved back and forth to various desired positions in a quick and easy manner.

Another object of the invention is to conceal the means whereby the furniture articles may be moved, or as nearly conceal the same as possible.

Other objects of the invention are to accomplish the foregoing and other desirable results in a simple and expeditious manner.

In the accompanying drawings Fig. 1 is an elevation of a corner portion of a bed, a portion of a floor with a carpet thereon, and means embodying my present invention for permitting the movement of the bed over said carpet;

Fig. 2 is a plan view on an enlarged scale of said means or device;

Fig. 3 is a cross section taken on line 3-3 in Fig. 2; and

Fig. 4 is a longitudinal section taken on line 4-4 in Fig. 2.

Referring to the drawings, I show in Fig. 1 a portion 1 of a floor of a room, building or the like, on which is mounted a carpet or rug 2. A leg 3 of a bed is shown, together with a portion 4 of the framework of said bed in which said leg is mounted. The leg 3 is provided with a castor 5. The bed is understood to be any usual or well known form of bed.

There is also shown a device A by means of

which the leg 3 may be moved back and forth over the carpet or rug 2 without injuring the same. This device in the form shown consists of a body or seat portion 6 and an extension or track portion 7, the latter being hinged to the former for vertical movement by means of a pivot pin 8, horizontal movement of the track portion on the seat being afforded in a manner which will be presently described.

The body portion 6 is preferably annular in form and provided with a bottom layer of felt or similar material 9 by which it may rest on the carpet or floor without injury to the same. The upper portion of the member 6 is provided with a surface 10 forming a seat for the bed roller or castor 5, the surface 10 being to such end slightly concave, as shown in Fig. 4. The member 6 is preferably engaged or mounted in a frame 11 in such way as to permit the frame 11 to be rotated about the member 6, as shown by full and dotted lines in Fig. 2. To such end the member 6 is provided with an annular groove 12 and the member 11 with screws 13 having reduced ends 14 adapted to fit loosely within the groove 12 so as to permit such rotative movement. The screws 13 are preferably made adjustable so as to secure the proper degree of looseness between members 6 and 11.

The frame 11 is provided with a surface 15 which forms a track for the roller 5, said member 11 being also provided with side uprights 16 forming side guides or walls for said track surface 15. The walls 16 extend in semi-circular form at 17 to enclose the roller seat 10.

The track member 7 which is pivoted to the member 11 by the pin 8 is provided with a track floor or surface 18 which may be of any desired length. Side walls 19 extend along the sides of the track floor or surface 18 and are made in semi-circular form at the end of the same, as shown at 20. The side walls 19 are preferably integral with the body of the member 7 forming the track surface 18. Projections 21 and 22 form legs or supports for the member 7. These projections 21 and 22 are also preferably provided on their under surfaces with felt 23, or other suitable material for preventing scratching of the floor or carpet. The hinged arrangement between the members 11 and 7 permits the member 7 to be swung

upwardly to a substantially vertical position, as shown in Fig. 1, and also to be swung downwardly to a substantially horizontal position on top of the floor or carpet, as shown in Fig. 4.

In the use of the device one of these devices is preferably put under each leg or castor of the bed or other article in connection with which the device is to be used. Assuming the drawings to show one leg of a bed having four legs, it will be understood that each of the other legs of the bed rests upon a similar device.

To move the bed, the hinged members 7 of the four devices are all swung downwardly and laid flat upon the carpet or floor, as shown in Fig. 4. They are also all extended in the direction in which the bed is to be moved. The bed is then pushed or pulled so that the rollers 5 move along the tracks 15 and 18 to any desired position in the device or until they reach the end of the track 18 and strike against the annular wall 20. In Fig. 4 a castor 5 is shown moved part way along the member 7. The bed is allowed to remain in the adjusted position on the tracks 18 as long as desired and then is moved to another position, as for example back to the members 6, so that the castors or rollers 5 will again rest upon the seats 10. When the bed is back with the rollers 5 on the seats 10, as shown in Figs. 1 and 4, the member 7 may be swung upwardly so as to rest against or in proximity to the legs 3, as shown in Fig. 1. This lifts a substantial part of the device from the floor or carpet and thereby partially conceals it. The members 7 will not only be swung up as shown in Fig. 1, but they may also be moved or rotated more or less as desired to any angular adjustment. This permits the bed to be moved in any desired direction.

The device may be used to great advantage in connection with beds in bed rooms, in which case each bed will be provided with four devices, one for each leg. When desired to make up the bed and to do so it is necessary to pull the bed a short distance to one side or the other, away from a wall or other bed, for example, the members 7 of the devices are all laid down on the carpet or floor and extended in the direction in which the bed is to be moved. The bed is then pushed or pulled so that the rollers travel along the tracks of the devices and reach the ends of the same. The bed is then made up or the clothes changed, or any desired operation done, and then the bed is pushed back to the original position. The members 7 may then be swung up so as to come into position alongside of or near the bed legs, or said members 7 may be swung in under the bed and left in a down position where they will be pretty well out of sight

or they may be not only swung in under the bed, but also swung up, so as to come in position back of the bed legs.

The use of these devices will prevent injury to rugs, carpets, and also to floors. The bed castors will travel back and forth in these devices and thus will not run at all upon the carpets or rugs or floors, as a result of which the latter will be free from all injury, damage, and wear and tear of moving beds over them. This is particularly advantageous where beds are on expensive rugs or carpets and where the continued movement of a bed back and forth each day to make it up would very soon cause a crease or mark in the carpet or rug. Furthermore, the bed will move much more easily by reason of these devices, traveling over a smooth track, instead of over a rough and matted surface such as a rug or carpet.

The angular movement of the member 7 with reference to member 6 does not injure the floor either, for the latter remains stationary while the former swings around it.

It will be understood that the devices may be used for articles other than beds.

It will also be understood that changes and modifications may be made without departing from the spirit of the invention.

What I claim is:

1. A device of the class specified comprising a seat for a castor and a track connected to the seat, said track comprising a frame and a track member hingedly connected so as to permit vertical swinging movement of the track member, said frame having a pivotal connection to the seat so as to permit a horizontal swinging movement of the track relative to the seat.

2. A device of the class specified comprising a castor seat and a track having a pivotal connection with said seat, said connection comprising a band extending around said seat and having a loose connection therewith adapted to permit a horizontal swinging movement of the track relatively to the seat.

3. A device of the class specified comprising a castor seat and a track pivotally connected to the seat so as to permit horizontal rotation of the track, said track being jointed so as to permit its outer end to be rotated vertically.

4. A device of the class specified comprising a seat, a track extending from the seat and means for pivotally connecting the track and seat, said track being rotatable entirely around said seat.

5. A device of the class specified comprising means for forming a seat for the castor of a movable article of furniture, means for providing a track extending from said seat, and means whereby said track can be swung upwardly relatively to said seat.

6. A device of the class specified comprising means for forming a seat for the castor of a movable article of furniture, a track extending horizontally from said seat, means permitting the track to be adjusted and rotated horizontally relative to the seat, said track being jointed near the seat so as to permit its outer end to be rotated vertically.

10 7. A device of the class specified comprising an annular member having its upper surface adapted to form a seat for the castor or roller of a movable article of furniture, a frame member in which said first mentioned member is rotatably mounted, said frame member having a track portion extending from said seat, and a third member pivotally mounted to said frame member and having a track portion forming an extension of the track portion of said frame member.

8. A device of the class specified comprising an annular member having its upper surface constructed to form a seat for the castor or roller of a movable article of furniture, a frame in which said annular member is rotatably mounted, said frame being provided with a track extending from said seat and being also provided with side flanges or rails extending along the edge of said track and around said seat, and a third member pivotally connected to said frame and provided with a track forming an extension of the track of said frame, said third member being also provided with rails or walls extending along the sides of its track and also across the end of said track.

9. In a support in combination, a relatively stationary seat and a track horizontally movable about said seat as an axis,

said track being composed of two parts hingedly connected so as to permit vertical rotation of the outer part.

10. A device of the class specified comprising an annular member having its upper surface constructed to form a seat for the castor or roller of a movable article of furniture, a frame in which said annular member is rotatably mounted, said frame being provided with a track extending from said seat and being also provided with side flanges or rails extending along the edge of said track and around said seat, and a third member pivotally connected to said frame and provided with a track forming an extension of the track of said frame, said third member being also provided with rails or walls extending along the sides of its track and also across the end of said track, said frame being provided with inwardly extending adjustable screws and said annular member being provided with an annular groove in which said screws may fit to permit the aforesaid rotatable movement between said annular member and said frame.

11. The combination with an article of furniture having a vertical supporting leg provided with a castor on the bottom thereof, of a support for said leg comprising a seat for receiving said castor, and a track having a pivotal connection with the seat permitting horizontal rotation of the track about said seat, said track being jointed near the seat so that the outer portion of the track may be raised into vertical alignment with the leg and be substantially hidden thereby.

In witness whereof, I hereunto subscribe my name this 13th day of May, A. D., 1919.

PAUL F. WILLIAMS.