Nov. 20, 1928.

1,692,679

L. L. McGOOGAN

DISPLAY AND STORAGE RACK

Filed Jan. 26, 1927

2 Sheets-Sheet 1

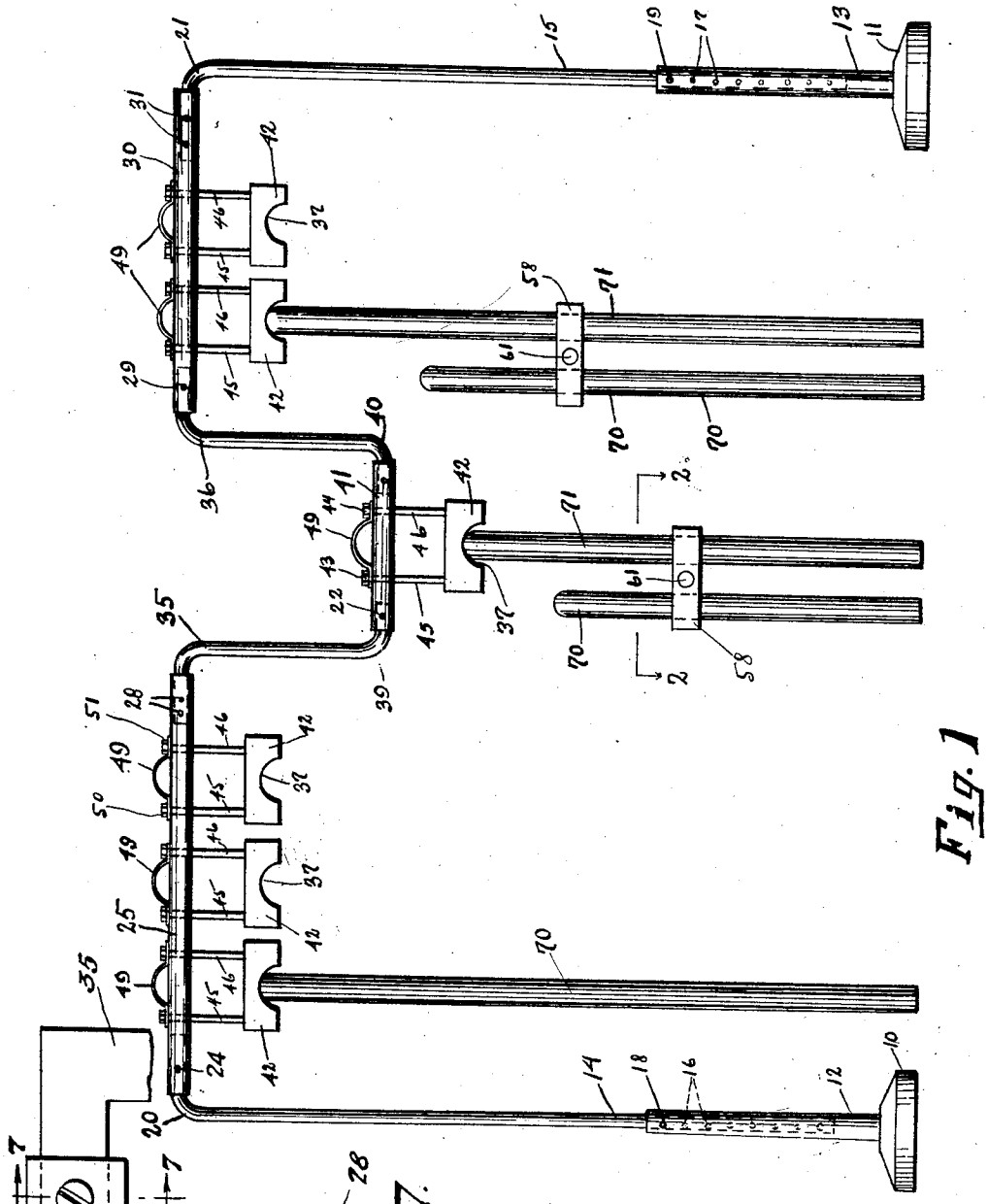


Fig. 1

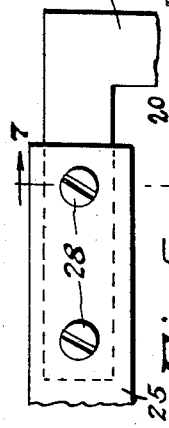


Fig. 6.

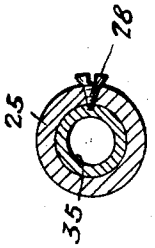


Fig. 7.

L. L. McGoogan, Inventor

By James B. Eaton

Attorney

Nov. 20, 1928.

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L. L. McGOOGAN

DISPLAY AND STORAGE RACK

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2 Sheets-Sheet 2

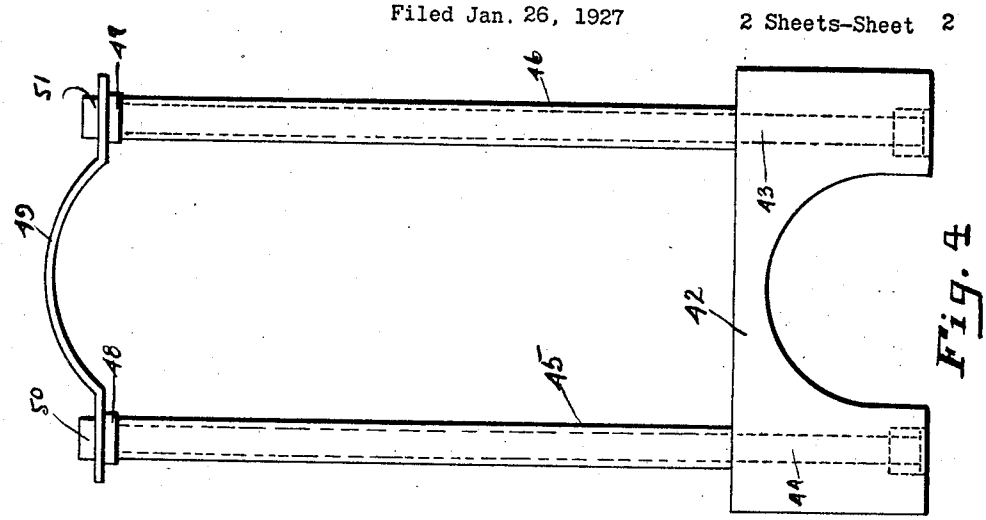


Fig. 4

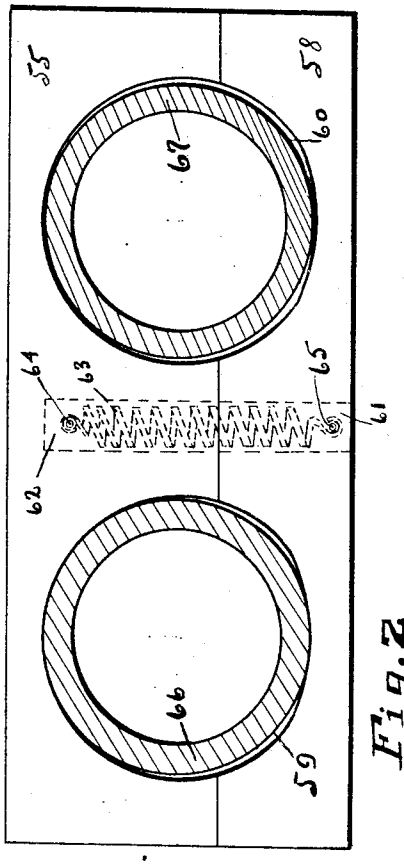


Fig. 2

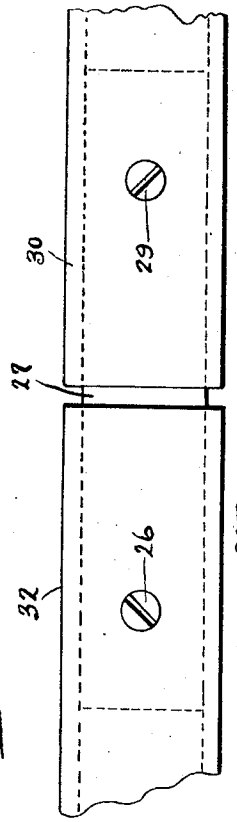


Fig. 3.

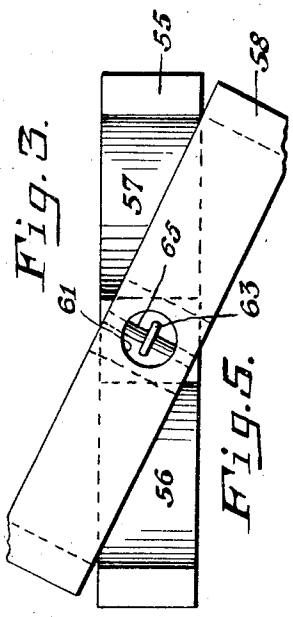


Fig. 5.

L. L. McGoogan
Inventor

By Paul Eaton
Attorney

Patented Nov. 20, 1928. 1,692,679

UNITED STATES PATENT OFFICE.

LEE L. McGOOGAN, OF ST. PAULS, NORTH CAROLINA.

DISPLAY AND STORAGE RACK.

Application filed January 26, 1927. Serial No 163,700.

My invention relates to providing a rack for holding the head and foot members of beds in an upright position, for purposes of display and storage. Heretofore, especially in furniture stores, it has been customary to stand the head and foot members of iron beds against the wall, with the result that many times these head and foot members will fall to the floor and become greatly damaged. My invention relates to means for remedying the above described situation.

An object of my invention is to provide a rack which is adapted to securely and releasably hold a plurality of head and foot members of beds in an upright position.

Another object of my invention is to provide a sectional rack for securely holding the head and foot members of beds in an upright position, said rack being made in a plurality of sections, so that it can be extended to receive any desired number of head or foot members of beds.

Another object of my invention is to provide a rack for storing head and foot members of iron beds or beds made of tubular material, together with means for securing a head and foot member to each other, so that when one of the members is engaged by my rack, both will be held securely in position.

Having stated some of the objects of my invention, other objects will appear as the description proceeds.

In the drawings, I have shown a preferred embodiment of my invention, in which—

Figure 1 is a side elevation of my device showing the head and foot members stored in the same;

Figure 2 is an enlarged detailed view, partly in cross-section, taken along the line 2—2 in Figure 1;

Figure 3 is an enlarged detailed view, showing the manner in which the sections are secured to each other;

Figure 4 is an enlarged detailed view of the means adapted to rest on the top portion of the head members for holding the same;

Figure 5 is an enlarged detailed edge view of the clamping means, shown in Figure 2;

Figure 6 is an enlarged detailed view of a portion of the rack showing the downwardly projecting portion thereof;

Figure 7 is an enlarged detailed cross-sectional view taken along the lines 7—7 in Figure 6.

A brief description of the different figures in the drawings having been given, a detailed description of the same will now follow, in which like reference characters indicate corresponding parts throughout the drawings.

The numerals 10 and 11 indicate bases which have upwardly projecting hollow portions 12 and 13, and adjustably secured in said bases, are the tubular members 14 and 15. These tubular members 14 and 15 have a plurality of holes 16 and 17 in their lower portions, and the base portions 12 and 13 have holes 18 and 19, which are adapted to register with the holes 16 and 17 in the tubular members 14 and 15. Pins may be inserted through the holes 18 and 19, and through any one of the holes 16 and 17 for the purpose of adjusting the height of the tubular members 14 and 15. The upper ends of the tubular members 14 and 15 have the elbow members 20 and 21. Adjustably secured to the elbow member 20 by means of a set screw or cotter pin 24, is the tubular member 25. Secured to the member 21 is the tubular member 30, which member is secured to the member 21 by means of the set screws 31. While I have described and shown only the members 25, and 30, connected together, I desire it to be understood that any number of such sections may be connected to each other, depending upon the length desired, by using the arrangement shown in Figure 3, by adding extension pipes 32 to the pipe 30 by means of the smaller pipe 27 and the set screws 26 and 29. The member 27 and the set screws 26 and 29 are best shown in Figure 3. Here it is readily seen that by loosening the screws 29 and 26, the members 30 and 32 may be disengaged from the member 27.

In the central portion of my rack, I have devised means whereby a portion of the rack may be elevated or lowered to accommodate different heights of beds. This is accomplished by having the elbow members 35 and 36, which project downwardly, as in Figure 1, and have the elbows 39 and 40, and to these last named elbows may be secured one or more tubular sections 41 in which a holding member 42 is adapted to slide up and down. By twisting the elbow members 35 and 36, and adjusting the set screws 28, 22, 23 and 29, the horizontal portion 41 may be adjusted to any desired height from the floor.

In the tubular members, such as 25, 30 and also in the tubular member 41 are vertical holes for the reception of the sliding members 42. These sliding members have bolts

43 and 44 projecting upwardly, therethrough, and are surrounded by tubular members 45 and 46, and threadably engaging the top portion of the screws 43 and 44 are the nuts 47 and 48. When these nuts are tightened, the heads on the lower ends of the bolts 43 and 44 are securely held in their place and the member 42 is securely held against the lower ends of the tubular members 45 and 46. Or, if desired, the nuts 47 and 48 may be dispensed with, as the nuts 50 and 51 will hold the parts firmly in position. An arc shaped member 49 is secured to the upper ends of the said bolts by means of nuts 50 and 51. By an upward pull on the arc shaped member 49, the whole device is raised upwardly through the vertical holes, in the tubular members 25, 30 and 41. Each of the members 42 have the arcuate notches 37 which are adapted to fit over the tops of the bed members.

In Figures 6 and 7, the set screws 28 and the elbow member 35 are shown. Here it is seen that by loosening the set screws 28 and exerting a forward pull to the lower portion to the elbow member 35, that the height of the member 41 (see Figure 1) may be adjusted relative to the floor, and when the set screws 28, 29, 22, and 23 are tightened, the parts will retain their adjusted position. As is shown in Figure 7, the set screws are pointed and when the parts are placed in adjusted position, the set screws are turned and the point is embedded in the inner pipe member. If set screws are not desired, cotter pins may be used in their stead by having a plurality of holes in the two pipe members.

It is well known that in many instances, that the head members and the foot members of beds are not of the same height. I have devised means whereby the foot members may be stored with the head members. These means are best shown in Figures 1, 2 and 5. These clamping means consist of a base member 55, which has recesses 56 and 57 therein. I provide another member 58 which has recesses 59 and 60. Holes 61 and 62, in the two members, provide places for securing the coil spring 63. One end of the coil spring is secured to the pin 64, in the base member 55, and the other end of the coil spring is secured to the pin 65 in the member 58. This provides for universal movement between the members 55 and 58, and allows the member 58 to be pulled away from the member 55 and swung on the spring 63 as a pivot, as is shown in Figure 5. This spring presses the member 58 against the tubular portions 66 and 67 of the head and foot members of the bed and securely holds these two members in position.

The method of operation of my device is as follows:

The head members 70 and foot members 71, being secured together by the above-described clamping means, can be placed in an upright position and the arc-shaped member 49 and associated parts raised, and when the head and foot members are in proper position, the notched member 42 will rest on the top of the head member and prevent the same from falling over sidewise.

When it is desired to remove the head members from the rack, they may be pulled forward from beneath the holding members 42.

Various heights of bed members may be stored in this rack. If the head members are higher than those shown in Figure 1, but not higher than the sections 25 and 30, they may be accommodated without raising the standards 14 and 15, as the tubes 45 and 46 will slide upwardly and allow the member 42 to rest on the top of the head member.

If the bed members 70 are higher than the members 14 and 15 in their highest adjusted position, they may be held by the members 35, 36, 41 and 42 by loosening the screws or cotter pins 28, 22, 23 and 29 and raising the elbow members 35 and 36 in an elevated position, above the members 25 and 30.

In the description, I have set forth a preferred embodiment of my invention, and although specific terms are employed, they are used in a generic and descriptive sense, and not for purposes of limitation, the scope of the invention being set forth in the appended claims.

I claim—

1. A rack for storing the head and foot members of beds comprising a pair of upright standards, members running from one standard to the other, and vertically slidable means on the members for releasably holding the head and foot members in approximately vertical position.

2. A device for displaying and holding the head and foot members of beds, comprising a plurality of horizontally disposed sections joined to each other and supported on upright standards, and vertically slidable means on the sections adapted to engage the head and foot members, and to hold the same in approximately vertical position.

3. A clamping member adapted to secure two members together, comprising a base member having a plurality of arcuate indentations on one of its faces, a second member, both of said members being resiliently secured to each other for universal movement with relation to each other.

4. In a display rack for head and foot members of beds, two vertically adjustable standards, elbows at the top of the standards leading towards each other, a plurality of tubular sections joined to the elbows and to each other to form a continuous support from one standard to the other, holes through the sections, vertically slidable members mounted in the holes, members having a notch in their lower edges being secured to

the vertically slidable members, said notches being adapted to engage the tops of head and foot members to hold the same in approximately vertical position.

5. In a display rack for head and foot members of beds, two spaced apart vertically disposed standards, a plurality of tubular sections joined to each other and spanning the distance between the standards, a portion of the tubular sections being capable of vertical adjustment with relation to the other portions, vertically slidable members having notches in their lower faces mounted in the tubular sections, means for adjusting the height of the tubular sections with relation to the base of the standards, and means for securing the head and foot members of beds to each other to cause them to be held by the vertically slidable members.

6. In a display rack for bedsteads, a pair of standards, bases for supporting the standards, means for adjusting the standards vertically in the bases, a plurality of tubular sections joined to each other and to the tops of the standards, holes vertically disposed in the tubular sections, members having arcuate lower faces slidably mounted in the holes, all of said means being adapted to cooperate to hold the head and foot members of beds in approximately vertical position.

In testimony whereof I affix my signature.

LEE L. McGOOGAN.