No. 710,191. Patented Sept. 30, 1902.

H. T. HALLOWELL.

HANGER.

(Application filed Apr. 8, 1901.)

(No Model.) 2 Sheets—Sheet 1.

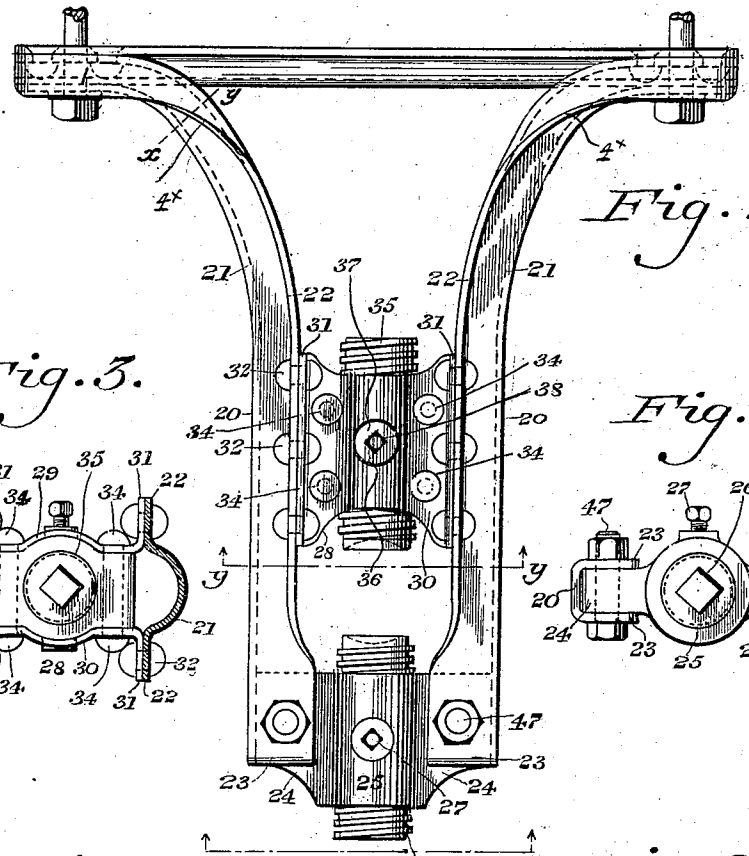


Fig. 1.

Fig. 3.

Fig. 2.

Fig. 4.

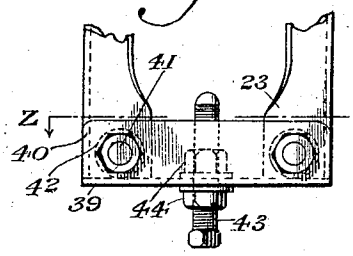


Fig. 5.

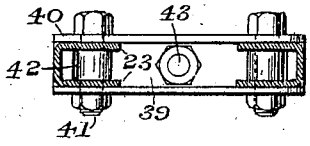


Fig. 9.

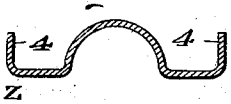
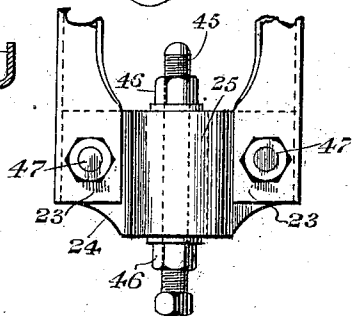


Fig. 6.



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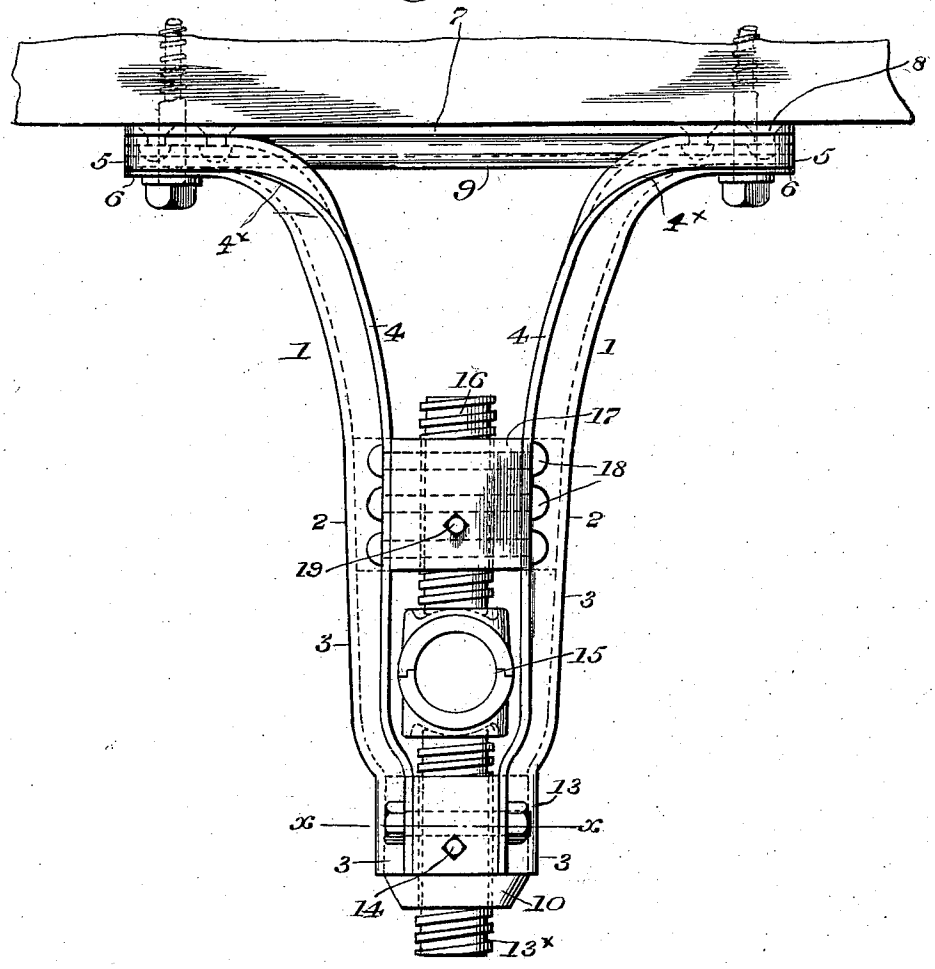
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No Model.) 2 Sheets—Sheet 2.

Fig. 7.



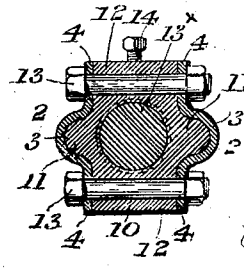


Fig. 8.

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HANGER.

SPECIFICATION forming part of Letters Patent No. 710,191, dated September 30, 1902.

Application filed April 8, 1901. Serial No. 54,836. (No model.)

To all whom it may concern:

Be it known that I, HOWARD T. HALLOWELL, a citizen of the United States, residing at Davisgrove, in the county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Hangers, of which the following is a specification.

My invention relates to an improved construction of hangers wherein the hanger-legs are strengthened by flanges of a novel construction, said legs being also reinforced at their lower and intermediate portions, whereby an improved hanger having great strength and rigidity is produced.

It further consists of novel features of construction, all as will be hereinafter fully set forth, and pointed out in the claims.

Figure 1 represents a side elevation of a hanger embodying my invention. Fig. 2 represents a bottom plan view of Fig. 1. Fig. 3 represents a section on line *y y*, Fig. 1, viewed in the direction of the arrows. Fig. 4 represents a side elevation of the lower portion of the hanger similar to that seen in Fig. 1, but showing a slightly-modified form of clamp. Fig. 5 represents a section on line *z z*, Fig. 4. Fig. 6 represents a side elevation of the lower portion of the hanger similar to that seen in Fig. 1, but showing a slightly-modified form of adjusting device. Fig. 7 represents a side elevation of a hanger, showing another embodiment of my invention. Fig. 8 represents a section on line *x x*, Fig. 7. Fig. 9 represents a section of the upper portion of the legs on line *x y*, Fig. 1.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 20 designates the legs of the hammer, the same having the longitudinally-extending hollow strengthening-ribs 21 and the end flanges 22, the general contour of said ribs and flanges being as seen in cross-section in Fig. 3. At the lower extremities of the legs 20 the latter are shaped in cross-section so as to appear substantially as seen in Fig. 2, wherefrom it will be seen that said legs are of substantially U shape and provided with the side walls 23, against which are held the lugs or projections 24 of the lower clamp or bushing 25, the latter having rotatably mounted therein the threaded adjusting device 26, which latter may be held in the desired position by the set-screw 27. The brace 28, which joins the intermediate portions of the hanger-legs 20, is preferably constructed of the members 29 and 30, each of the latter having the flanges 31, which are held in the desired position relative to the flanges 22 by means of the rivets or other suitable fastening devices 32.

33 designates a block or bushing held between the members 29 and 30 by means of the bolts, rivets, or other suitable fastening devices 34, said bushing having adjustably mounted therein a threaded adjusting device 35.

36 designates an opening in the member 30, through which passes the boss 37 of the bushing 33, in which boss is located the set-screw or other similar device 38, whereby the proper position of the upper adjusting device 35 is assured.

The upper portions of the legs 20 are preferably constructed substantially as seen in the upper portion of Fig. 1, the flanges 22 being deflected so as to form members that are secured to a plate in substantially the same manner as described in Figs. 7 and 8.

In Figs. 4 and 5 I have shown a slightly-modified form of clamp for securing the lower ends of the hanger-legs in position, said clamp having a base 39 and the upwardly-extending walls 40, between which the lower ends 23 of the hanger-leg are supported and secured by means of the bolts 41 or other suitable fastening devices, a sleeve or spacing device 42 being located between the walls 23, as will be evident from Fig. 5.

43 designates an adjusting-bolt which may be employed in place of the lower adjusting device 26, (seen in Fig. 1,) said bolt passing through the base 39 of the clamps and being provided with jam-nuts 44, the function of which is evident. In Fig. 6 I have shown a detailed construction substantially like the lower portion of Fig. 1, except that in Fig. 6 I employ an adjusting-screw 45 instead of the plunger 26, (seen in Fig. 1,) said adjusting-screw being provided with jam-nuts 46 for the purpose of locking the same in the desired position. In the lower portion of Fig. 1 and in Figs. 2 and 6 I have shown the clamp or block 25 as held in position by means of bolts 47; but it will be apparent that other

fastening devices may be employed by those skilled in the art which will come within the scope of my invention, and I do not therefore desire to be limited in every instance to the exact construction herein shown and described.

In the construction shown in Figs. 7 and 8 I have shown another embodiment of the principle of my invention, wherein 1 designates a hanger, the same consisting of the legs 2, which are provided with the longitudinally-extending hollow strengthening-ribs 3, which terminate in the flanges 4, the lower portions of the legs 2 being constructed, as seen in sectional view, Fig. 8.

The upper portions of the legs 2 are preferably constructed substantially as seen in the upper portion of Fig. 7, the flanges 4 being deflected to any desired extent, so as to form the members 5 of the feet 6, which latter are secured to the plate 7 by means of the rivets or other fastening devices 8, it being noted that said plate 7 is preferably provided with the longitudinally-extending rib 9 and that the extremities of said rib are seated in the similarly-shaped portions of the feet 6.

The flanges on their outer edges are deflected outwardly and downwardly, as seen at $4^{\times}$ in Figs. 1 and 7.

10 designates the lower clamp, which is inserted between the extremities of the legs 2, said clamp having a suitable body portion provided with the projections 11, which are adapted to fit into the rib 3, while the outer portions 12 of said clamp are adapted to be retained between the flanges 4 by means of the bolts 13 or other suitable fastening devices, it being apparent that said clamp 10 serves as a spacing-block for the lower extremities of the hanger-legs and also as a bushing for the threaded adjusting device $13^{\times}$, which latter is held in the desired position by means of a set-screw 14 or similar fastening devices. The upper extremity of the adjusting device $13^{\times}$ supports the lower portion of the journal-box 15, the top of the latter being contiguous to the lower extremity of the upper adjusting device 16, which is rotatably mounted in the brace or bushing 17, which is secured in position by means of bolts, rivets, or other suitable fastening devices 18, the latter preferably passing through the flanges 4 of the legs 2, and said upper adjusting device being held in the desired position by means of a set-screw 19.

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

1. A hanger comprising a plate, having a longitudinally-extending rib, a plurality of legs provided with feet attached to said plate, said legs having longitudinally-extending ribs which terminate laterally in flanges, said flanges being deflected downwardly and outwardly in proximity to said feet, a brace located at the intermediate portions of said legs and secured to said flanges by suitable fastening devices, a clamp located at the lower portion of said legs and secured to the flanges thereof, and upper and lower adjusting devices located in said brace and lower clamp respectively.

2. A hanger, comprising a plate, a plurality of legs having hollow longitudinally-extending strengthening-ribs provided with feet attached to said plate, said legs having flanges on their outer portions, said outer portions of said legs being deflected outwardly and downwardly thereby forming stiffening-flanges which extend longitudinally on the outer edges of said legs and feet, said legs terminating in a plurality of U-shaped contours at their lower extremities, a brace located at the intermediate portions of said legs and secured to said legs by suitable fastening devices, a clamp located at the lower portion of said legs and secured thereto by suitable fastening devices, and upper and lower adjusting devices located in said brace and lower clamp respectively.

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