April 5, 1949. A. SLAGLE 2,466,494

DETACHABLE BED LEG

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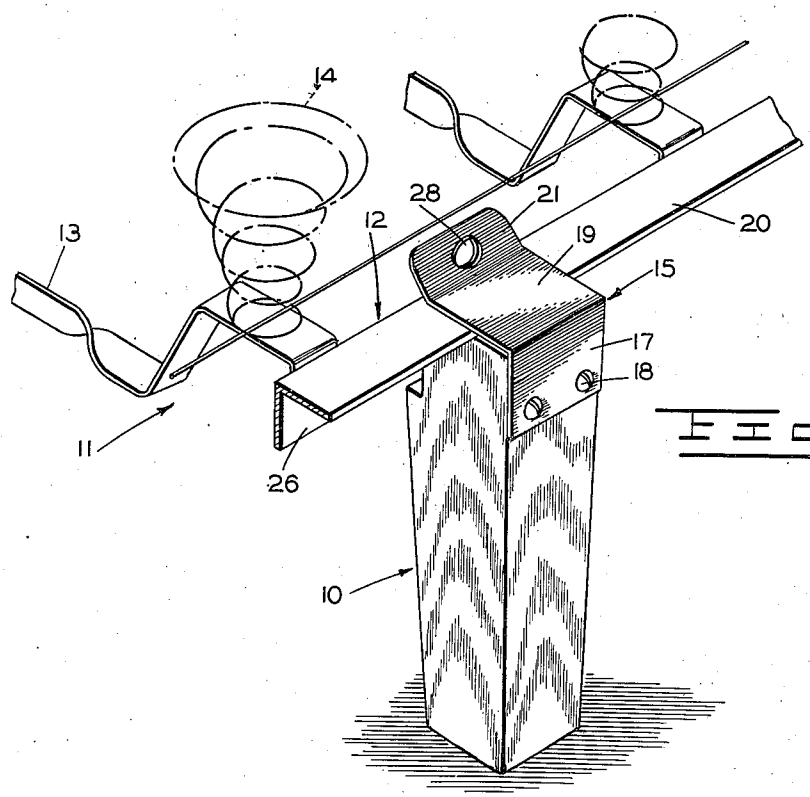


Fig 1.

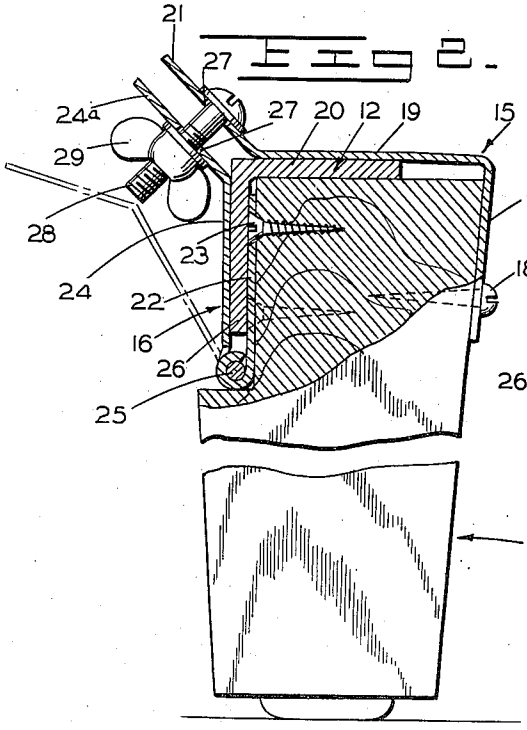


Fig 2.

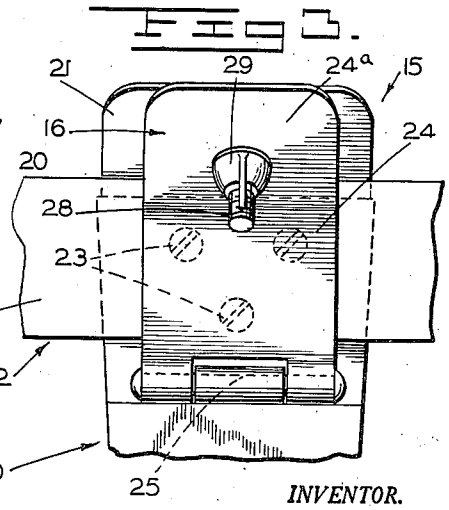


Fig 3.

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DETACHABLE BED LEG

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6 Claims. (Cl. 5—310)

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This invention relates to legs which, although suitable for various purposes, are particularly adapted for use in connection with bed springs, serving, when so employed, to cooperate directly with the frame member of the bed springs to provide beds of the so-called "Hollywood" type. More particularly the invention is concerned with a novel form of attaching means for use in connection with legs of the character described.

One object of the invention is to provide attaching means for legs which may be applied to standard forms of legs and which as so applied, will enable the legs to be attached securely, with facility, and without the aid of tools, to standard frames of bed springs and the like.

A further object is to provide attaching means which may be permanently attached to a leg in such a manner that the leg and attaching means become, in effect, a single unit and may be handled and sold as such.

A still further object is to provide attaching means of the kind described which may be formed by simple stamping operations and which, as a consequence, may be produced and assembled economically.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a perspective view of a leg embodying the features of the invention, the leg being shown attached to a frame member of a bed spring.

Figure 2 is an enlarged side elevational view of the leg, the latter being shown partially in section; and

Figure 3 is a rear view of the upper end of the leg.

A leg embodying the features of the invention is illustrated at 10 in connection with a conventional bed spring 11, the latter being sufficiently illustrated for the purpose in view by a showing of a fragmentary portion of one of the longitudinal side frame members 12, fragmentary portion of cross members 13 and coil springs 14.

In accordance with the invention, attachment of the leg to the bed spring is accomplished by cooperating clamping members 15 and 16 which are permanently attached to, and which, therefore, in effect, become parts of, the leg. As illustrated, the clamping member 15 has a vertical

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portion 17 which is secured by screws 18, or otherwise, to the outer side of the leg at the upper end thereof, the vertical portion 17 of the member 15 being secured to the leg 10 in such a manner that a horizontal portion 19 is spaced above the upper end of the leg a distance substantially equal to the thickness of the horizontal flange 20 of the frame member 12. The outer end of the horizontal portion 19 extends angularly upwardly as indicated at 21. The horizontal flange 20 of the frame member 12 is accommodated between the upper end of the leg 10 and the horizontal portion 19 of the clamping member 15, as best shown in Figure 2.

The clamping member 16 is in the form of a hinge, having a short leaf 22 which is secured by screws 23, or otherwise, to the rear side of the leg 10 at the upper end thereof. Preferably the clamping member 16 is located in a cut-out portion of the leg, as shown, so that the upper end of the short leg does not extend above the top of the leg. The clamping member 16 has a long leaf 24 which is connected to the short leaf by a pintle 25 in such a manner that when both leaves of the clamping member are parallel, as shown in Figure 2, they are spaced apart a distance substantially equal to the thickness of the vertical flange 26 of the frame member 12; and, hence, when the leaf 24 occupies such relation with respect to the leaf 22, the vertical flange of the frame member 12 may be accommodated between the two leaf members. The outer end of the long leaf member 24 extends angularly outwardly as indicated at 24^a and in the closed position of the leaf is located adjacent, and parallel to, the angular extension 21 of the clamping member 15.

The angular extensions 21 and 24^a are formed with aligned holes 27 for accommodating a bolt 28, a wing nut 29 on the latter being available to draw the two extensions together and in so doing draw the horizontal portion 19 of the clamping member 15 down tightly on the horizontal flange 20 of the frame member 12 to force the horizontal flange tightly against the upper end of the leg and at the same time clamping the vertical flange 26 of the said frame member between the two leaves of the clamping member 16 as the leaf 24 of the latter is acted upon to force the vertical flange of the frame member in the direction of the rear side of the leg.

In attaching a leg, it is only necessary that the wing nut 29 be removed and the leaf 24 of the clamping member 16 swung to an open position. With the leaf 24 occupying such position, the leg may be moved toward the frame member 12 to cause the horizontal flange 20 to enter the space between the horizontal portion 19 of the clamping member 15. As this occurs, the vertical flange of the frame member moves against the fixed leaf 22 of the clamping member 16. Thereafter, the hinged leaf of the latter may be swung against the vertical flange of the frame member, the bolt 28 inserted through the holes 27 and the wing nut 29 screwed onto the bolt and tightened. In these operations no tools are required and the wing nut 29 may be readily tightened with the fingers to a degree adequate to firmly secure the leg in place. No tools are required for this purpose.

The attaching means described has the advantage that the leg is rigidly secured to the structure which it is to support, it being unnecessary to modify such structure in any way to accommodate the leg. Further advantages obtained are that the clamping members may be formed by simple stamping operations and may be attached with facility to standard legs.

Although the invention is illustrated and described in connection with legs for bed springs, it is to be understood that this is intended by way of example only and that the features of the invention may be employed in connection with legs for various other structures.

I claim as my invention:

1. Means for attaching a leg to a frame member including cooperating clamping members, one of said clamping members being adapted to be secured to said leg adjacent an end thereof and having a free end adapted to overlie a portion of said frame member, the other of said clamping members being in the form of a hinge and having leaves, one of which is adapted to be secured to said leg and the other of said leaves having a free end which, in a closed position, terminates in the vicinity of the free end of said first mentioned clamping member, and means engageable with the free ends of said first mentioned clamping member and said second mentioned leaf which is adjustable to secure said leg firmly to said frame member.

2. Means for attaching a leg to a frame member having angularly extending flanges, said attaching means including cooperating clamping members, one of said clamping members being adapted to be secured to said leg adjacent an end thereof and having a free end adapted to overlie one of said flanges, the other of said clamping members being in the form a hinge and having leaves between which the other of said flanges is accommodated, one of said leaves being adapted to be secured to said leg and the other of said leaves having a free end which, in a closed position, terminates in the vicinity of the free end of said first mentioned clamping member, and means engageable with the free ends of said first mentioned clamping member and said second mentioned leaf which is adjustable to secure said leg firmly to said frame member.

3. Means for attaching a leg to a frame member having angularly extending flanges, said attaching means including cooperating clamping members, one of said members being adapted to be secured to said leg adjacent an end thereof and having a free end overlying the end of said leg in spaced relation with respect thereto so that

one of said flanges may be positioned between the end of said leg and the free end of said member, the other of said members being in the form of a hinge and having leaves between which the other of said flanges is accommodated, one of said leaves being adapted to be secured to said leg and the other of said leaves having a free end which, in a closed position, terminates in the vicinity of the free end of said first mentioned clamping member, and means engageable with the free ends of said first mentioned clamping member and said second mentioned leaf which is adjustable to clamp said leg firmly to said frame member.

4. Means for attaching a leg to a frame member having angularly extending flanges, said attaching means including cooperating clamping members, one of said clamping members being adapted to be secured to said leg adjacent an end thereof and having a free end adapted to overlie one of said flanges, the free end of said clamping member terminating in an angular extension, the other of said clamping members being in the form of a hinge and having leaves between which the other of said flanges is accommodated, one of said leaves being shorter than the other and being adapted to be secured to said leg and the other of said leaves having a free end which terminates in an angular extension, the angular extension of said second mentioned leaf terminating, in its closed position, in the vicinity of the angular extension of said first mentioned clamping member, and means engageable with the angular extensions of said first mentioned clamping member and said second mentioned leaf which is adjustable to clamp said leg firmly to said frame member.

5. Means for attaching a leg to a frame member having angularly extending flanges, said attaching means including cooperating clamping members, one of said clamping members being adapted to be secured to said leg adjacent an end thereof and having a free end overlying the end of said leg in spaced relation with respect thereto so that one of said flanges may be positioned between the end of said leg and the free end of said clamping member, the free end of said clamping member being formed with a hole, the other of said clamping members being in the form of a hinge and having leaves between which the other of said flanges is accommodated, one of said leaves being adapted to be secured to said leg and the other of said leaves having a free end which, in a closed position, terminates in the vicinity of the free end of said first mentioned clamping member, said last mentioned leaf being formed with a hole which, in the closed position of said leaf, is in alignment with the hole in the end of said first mentioned clamping member, a headed element having a threaded body which may be inserted through said aligned holes, and a wing nut which screws onto said threaded body and which is adjustable thereon to clamp said leg firmly to said frame member.

6. Means for attaching a leg to a frame member having angularly extending flanges, said attaching means including cooperating clamping members, one of said clamping members having a vertical portion which is adapted to be secured to a side of said leg adjacent the upper end thereof and having a horizontal portion overlying the end of said leg in spaced relation with respect thereto so that one of said flanges may be positioned between the end of said leg and said horizontal portion, the end of said horizontal portion being inclined angularly upwardly, the other of said

clamping members being in the form of a hinge and having leaves between which the other of said flanges is accommodated, one of said leaves being short and being adapted to be secured to a side of said leg adjacent the upper end thereof and the other of said leaves being longer and having an outwardly bent end which, in the closed position of said longer leaf, is located in the vicinity of, and substantially in parallel relation with respect to, the angularly bent end of said first mentioned clamping member, and means connecting the angularly bent ends of said first mentioned clamping member and said longer leaf

which is adjustable to clamp said leg firmly to said frame member.

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