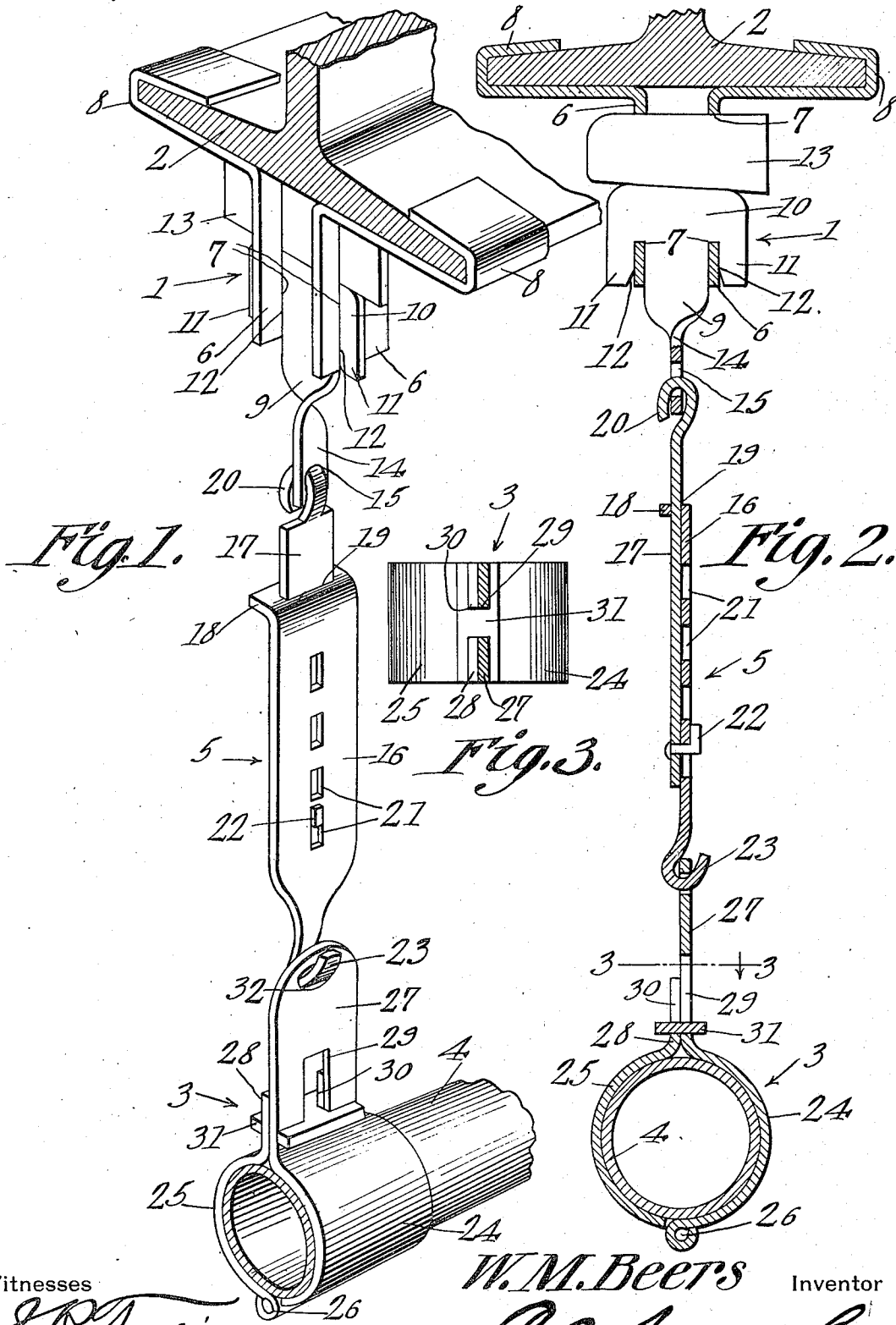


W. M. BEERS.
PIPE HANGER.

APPLICATION FILED MAY 25, 1914.

1,132,999.

Patented Mar. 23, 1915.



Witnesses

J. R. Somers
S. Willard

W. M. Beers

Inventor

by

C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

WILBUR M. BEERS, OF JOHNSONBURG, PENNSYLVANIA.

PIPE-HANGER.

Specification of Letters Patent.

Patented Mar. 23, 1915.

1,132,999.

Application filed May 25, 1914. Serial No. 840,890.

To all whom it may concern:

Be it known that I, WILBUR M. BEERS, a citizen of the United States, residing at Johnsonburg, in the county of Elk and State of Pennsylvania, have invented a new and useful Pipe-Hanger, of which the following is a specification.

The present invention appertains to a hanger for suspending pipes, such as water and gas pipes, from I-beams, girders and the like, and aims to provide a novel and improved device of that character.

The present invention contemplates the provision of a pipe hanger which will be adjustable to suspend a pipe at various distances below the I-beam and which may accommodate various pipes, I-beams, and the like.

Another object of the present invention is to provide a unique clasp or stirrup for the pipe.

It is also within the scope of the present invention, to provide a device of the nature indicated, which will be comparatively simple, and inexpensive in construction, as well as being convenient, practical, serviceable and efficient in its use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention has been illustrated in its preferred embodiment in the accompanying drawing, wherein:—

Figure 1 is a perspective view of the hanger as in use. Fig. 2 is a longitudinal section thereof. Fig. 3 is a cross section through the clasp or stirrup, taken on the line 3—3 of Fig. 2.

In carrying out the present invention, there are provided a clamp or carrier 1 applicable to an I-beam 2 or the like, a clasp or stirrup 3 for embracing or receiving the pipe 4, and an extensible or adjustable hanger element 5 connecting the clamp or carrier 1 and the clasp or stirrup 3.

The clamp or carrier 1 embodies a pair of parallel upright strips or members 6 having vertical slots 7, and having upper angular

hooks 8 which are engageable over the base flanges of the I-beam 2. The hooks 8 diverge away from each other, whereby when they are applied to the I-beam 2, the portions 6 will depend from the bottom of the I-beam. A member 9 is disposed between the lower ends of the members or portions 6 and is provided at its upper end with a T-head 10 engaging through the slots 7 of the members 6. The ends or arms of the T-head 10 are provided with depending fingers 11 providing slots 12 which are engageable with the lower ends of the members 6 below the slot 7. A key or wedge 13 is insertible through the upper end portions of the slots 7 to engage the upper end of the member 9 or the upper edge of the T-head 10, to lock the member 9 in engagement with the members 6. The lower end or extremity of the member 9 is preferably twisted, as at 14, and provided with an aperture or opening 15.

In assembling the clamp or carrier 1 with the I-beam 2, supposing the several parts to be detached, the hooks 8 are first started over the edges of the lower flanges of the beams 2, and the member 9 is then placed between the members 6 so that when the hooks 8 are slid home, the ends or arms of the T-head will engage through the slots 7 of the members 6. Then, by drawing the member 9 downwardly, the fingers 11 will engage downwardly over the lower end portions of the members 6, the lower end portions of the said members 6 being received by the slots 12 formed between the body portion of the member 9 and the fingers 11, whereby the members 6 will be locked against separation. In this manner, the hooks 8 are held firmly in engagement with the I-beam 2. The member 9 is locked in engagement with the members 6, by the wedge or key 13 which is driven through the slots 7 above the T-head 10.

Coming to the hanger element 5, the same embodies a relatively wide bar or strip 16, and a relatively narrow bar or strip 17 resting flatly thereagainst, the upper end of the bar 16 being provided with an angular portion 18 having a slot 19 through which the bar 17 is slidable. The upper end of the bar 17 is provided with a hook 20 engageable through the aperture 15 in the lower end 14 of the member 9, to attach the upper end of the hanger element 5 with the clamp or carrier 1. The bar 16 is provided

with a longitudinal or vertical series of slots 21, and a hook 22 is secured to the lower end portion of the bar 17 and is engageable through the respective slots 21. The bill of the hook 22 is turned upwardly to engage over the upper ends of the slots 21, as seen in Fig. 2, and the lower extremity of the bar 16 is provided with a hook 23 with which the clasp or stirrup 3 is engageable, as will hereinafter appear.

To adjust the hanger element 5, the bars 16 and 17 are pushed together in order that the hook 22 may be withdrawn from the particular slot 21 to which it is engaged, and which will enable the bars 16 and 17 to be adjusted properly to either extend or contract the hanger element. Then, the hook 22 may be engaged through the adjacent slot 21, to lock the bars 16 and 17 against separation.

The clasp or stirrup 3 embodies a pair of arcuate or semi-circular sections 24 and 25, which have their lower ends hinged together, as at 26. The upper end of the section 24 is provided with a relatively long angular portion 27, while the upper end of the section 25 is provided with a relatively short angular portion 28 adapted to rest against the butt end of the portion 27. The angular portion 27 is provided with a relatively long longitudinal slot 29, and the angular portion 28 is provided with a relatively short open-ended slot or notch 30. An H-shaped locking element or latch 31 is slidably mounted within the slot 29 of the portion 27, the side members of the latch 31 being disposed at the opposite sides of the portion 27 and the connecting or cross portion of the latch 31 passing through the slot 29.

When the latch 31 is raised, to the upper end of the slot 29, the same releases the section or clamping member 25, whereby the section 25 may be swung open to apply the pipe 4 to the clasp or stirrup 3, or to remove the pipe. When the pipe 4 is applied between the sections 24 and 25, and when the section 25 is swung to closed position to bring the angular portion 28 thereof against the angular portion 27, the latch 31 having been raised, the sections 24 and 25 may be held in closed position by dropping or pushing the latch 31 downwardly so as to enter the slot 30 of the portion 28, the corresponding side portion of the latch 31 engaging over the portion 28 to hold the portions 27 and 28 together. The portion 27 has an upper aperture 32 to engage the hook 23.

From the foregoing, it will be obvious

that the present hanger may be readily applied to the I-beam 2 and pipe 4, for supporting the pipe 4 to various distances below the I-beam, the clamp or carrier 1 being applicable to the beam 2 in a peculiar manner, the clasp or stirrup 3 being applicable to the pipe 4 in a peculiar manner, and the hanger element 5 being adjustable and connecting the devices 1 and 3. The various uses and capabilities of the present invention will be obvious to those versed in the art, without itemizing the same.

The present device may be constructed in various sizes, so as to be applicable to various sizes or proportions of I-beams, pipes and the like, and if desired, the upper end of the bar 17 may be constructed integral with the lower end 14 of the member 9, and the lower end of the bar 16 may be constructed integral with the portion 27, as will be readily apparent without a detailed description or illustration thereof. This would eliminate the hooks 21 and 23, and the apertures 15 and 32. Attention is also directed to the fact that the several parts of the device may be readily stamped or fashioned from sheet metal, bars, and similar stock in an inexpensive manner.

Having thus described the invention, what is claimed as new is:—

1. In a device of the character described, a stirrup comprising hinged sections having relatively long and short angular portions at their free ends adapted to swing together, the relatively long angular portion having a slot, and the relatively short angular portion having an open slot, and a latch slidably mounted within the slot of the relatively long angular portion and engageable with the said open ended slot to hold the sections closed.

2. In a device of the character described, a stirrup comprising hinged sections having relatively long and short angular portions at their free ends adapted to swing together, the relatively long angular portion having a slot, and the relatively short angular portion having an open slot, and an H-shaped latch mounted within the slot of the relatively long angular portion and engageable with the open ended slot of the relatively short angular portion.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILBUR M. BEERS.

Witnesses:

E. B. HARKER,

F. S. O'DANIEL.