(No Model.)

A. FARLAND.

ADJUSTABLE STAGING OR SCAFFOLDING.

No. 499,826. Patented June 20, 1893.

Fig. 3.

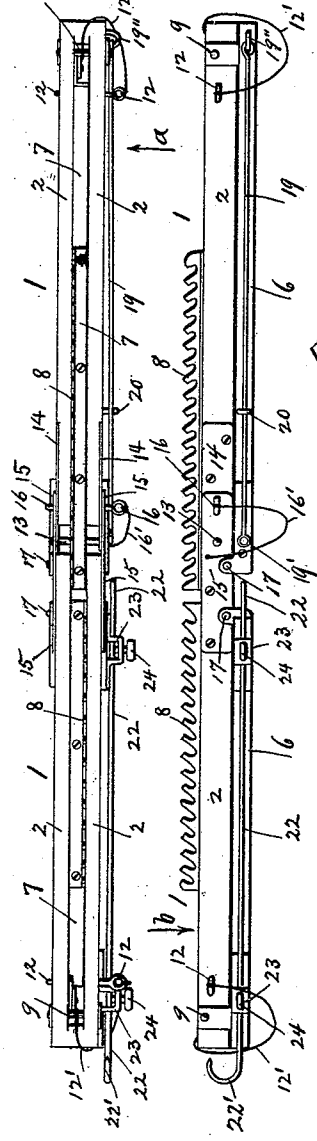
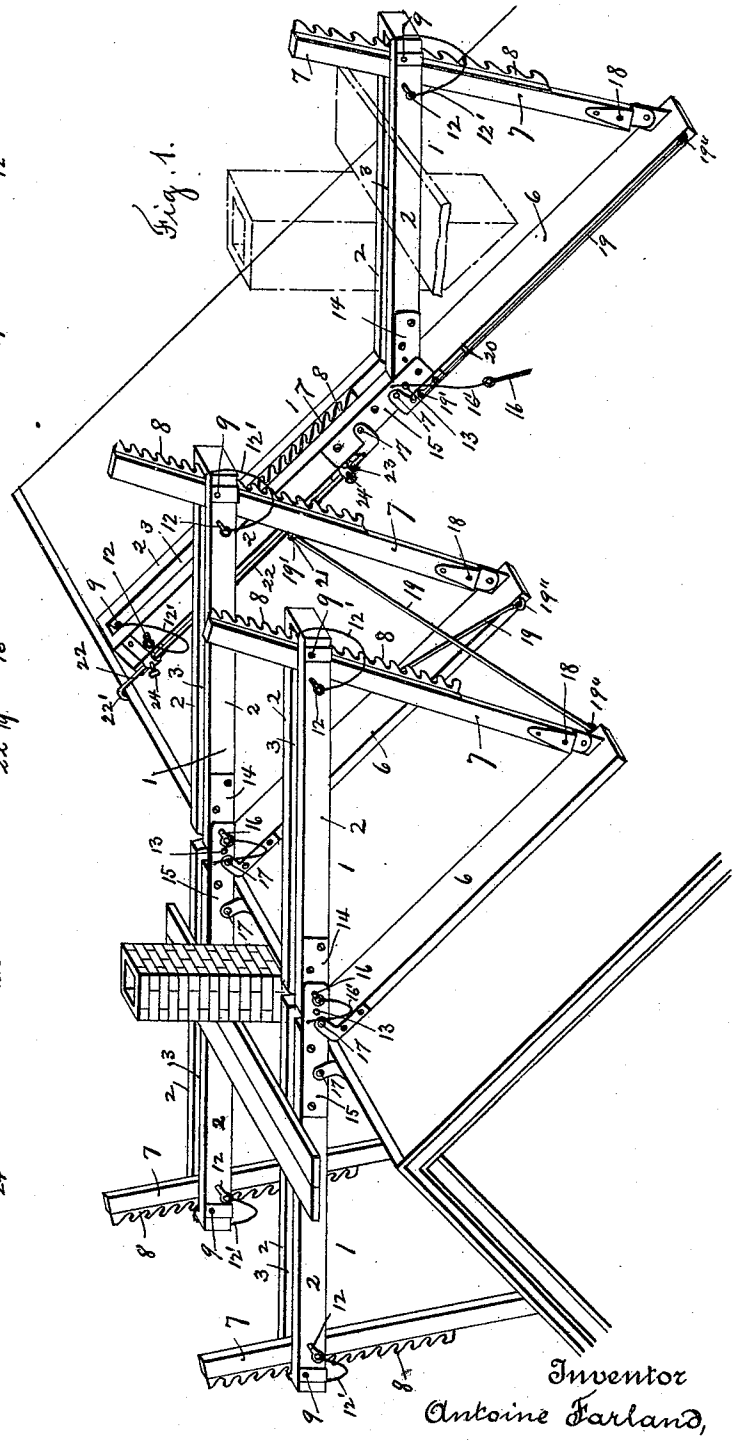


Fig. 2.

Fig. 1.



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ADJUSTABLE STAGING OR SCAFFOLDING.

SPECIFICATION forming part of Letters Patent No. 499,826, dated June 20, 1893.

Application filed February 20, 1893. Serial No. 462,959. (No model.)

To all whom it may concern:

Be it known that I, ANTOINE FARLAND, a citizen of the United States, residing at Southbridge, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Staging or Scaffolding; and I do hereby declare that the following is a full, clear, and exact description thereof, which, in connection with the drawings making a part of this specification, will enable others skilled in the art to which my invention belongs to make and use the same.

My invention relates to the adjustable staging or scaffolding shown and described in my Patent No. 472,867, of April 12, 1892, and the object of my present invention is to improve upon the construction of the adjustable staging or scaffolding shown and described in said patent, and more particularly to so construct said staging or scaffolding that the same may be readily attached to the ridge of a gable roof, and extend upon one side only of the roof, to be used in repairing chimneys near the lower edge of the roof, &c. In my said patent the adjustable staging or scaffolding is so made that it is only adapted to be supported on the ridge of the roof, with half of the scaffolding extending upon one side, and half upon the other side of the ridge, and in said patent the horizontal supports, consisting of two bars which extend upon opposite sides of the ridge, are made rigid, or in one piece. In my present invention, the horizontal supports, consisting of two bars, are made in two parts, and hinged at their inner ends, so that one horizontal support may be moved on its hinge joint, relatively to the other horizontal support, to extend at an angle thereto. I also provide means for securing the staging or scaffolding to the ridge of the roof, to support the scaffolding on one side of the roof only; said means consisting preferably of a hooked rod adjustably secured to the edge of one of the outwardly extending arms which rest on the roof. I also provide means for bracing and steadying the horizontal supports, said means consisting preferably of two rods extending between the two parts of the staging or scaffolding. The hooked rod for securing the scaffolding to the ridge, and the brace rods are so combined with the scaffolding, that they extend along upon one side thereof when not in use, and occupy but little space.

My invention consists in certain novel features of construction and operation of the adjustable staging or scaffolding above referred to, as will be hereinafter fully described, and the nature thereof indicated by the claims.

Referring to the drawings:—Figure 1 is a perspective view of my improved adjustable staging or scaffolding, showing the same applied to the ridge of the roof, and also applied to one side of the roof. Fig. 2 is, on an enlarged scale, a side view of the scaffolding device folded, looking in the direction of arrow *a*, Fig. 3, and, Fig. 3 is a plan view of the scaffolding device shown in Fig. 2, looking in the direction of arrow *b*, same figure.

I have used herein the same reference figures for corresponding parts as are used in my said patent.

In the accompanying drawings, 1, 1, are the horizontal supports, consisting of two sets of bars 2, 2, connected at their outer ends, with a space 3 between them, and hinged together at their inner ends by a pin 13, which extends through plates 14 and 15 secured to the outer side of the bars 2, 2, at their inner ends. The ends of said plates 14 and 15 extend beyond the ends of said bars, to form, in connection with the pin 13, a hinge joint between said bars, as shown in the drawings. The plates 15 on one set of bars 2, extend on the outside of and beyond the ends of the plates 14 on the other set of bars 2, and a removable pin 16, attached by a cord 16′ to one of the plates 15, extends through holes in said plates 14 and 15, and through holes in the last mentioned set of bars 2, to rigidly secure said bars 2 to the plates 15 as shown in Figs. 2 and 3, and prevent any movement of said bars on their hinge joint, thus making the horizontal supports rigid, and adapted to be supported on the ridge of the roof, in the same manner as the rigid horizontal supports in my said patent.

To the horizontal supports 1, provided with the plates 15, are pivoted, by pins 17 extending through the plates 15 and through the inner ends of the set of bars 2 to which said plates are secured, the outwardly extending arms 6, which are adapted to lie upon the

sides of the roof, as shown in Fig. 1, when the scaffolding is in use, and to be folded up against the lower edge of the horizontal supports 1, as shown in Figs. 2 and 3, when the scaffolding is not in use.

Near the outer end of each arm 6 is pivoted the lower end of an arm 7, provided at its outer edge with rack teeth 8 which are adapted to engage with a pin 9 secured near the ends of the horizontal supports 1 between the bars 2; the rack teeth 8 are held in engagement with the pin 9, after the arm 7 has been properly adjusted, by the removable pin 12, secured by a cord 12′ to the pin 9, or other part of the horizontal supports 1; said pin extends through holes in the bars 2 back of the arms 7, as shown in Fig. 1. The pivoted arm 7 extends in the space 3 between the bars 2, forming the horizontal supports 1, and when the arm 6 is moved up against the horizontal supports 1, the pivoted arm 7 will be moved inwardly on its hinge joint, and extend in the space 3 between the bars 2 of the horizontal supports 1, as shown in Figs. 2 and 3, and in the same manner as shown and described in my said patent. The removable pin 12 serves to secure the outer end of the arm 6 to the outer end of the horizontal support 1, by extending through a hole 18 in the lower pivoted end of the arm 7, and through holes in the outer ends of the bars 2, as shown in Fig. 3.

The brace rods 19, one for each half of the complete scaffolding, are attached at one end, preferably by a screw eye 19″, to the outer end of one edge of the arm 6, and are adapted to extend along said edge and be supported thereon and secured thereto, when not in use, by a hook 20. The other end of each brace rod 19 is provided with an eye 19′, which is adapted to be secured to the inner edge of the pivoted arm 7, by a thumb screw 21, as shown in Fig. 1. By means of the brace rods 19, extending between the arms 6 and the pivoted arms 7, the horizontal supports 1 and the pivoted arms 7 are braced and firmly held when the scaffolding is in use. When the scaffolding is not in use, the brace rods 19 extend along, and are secured to one edge of the arms 6, and occupy but little space.

In order to attach the staging or scaffolding to the ridge of the roof, so that the same may extend only upon one side of the roof, as shown at the right in Fig. 1, I provide a rod 22, provided with a hook 22′ at one end thereof, which is adapted to hook over the ridge of the roof, as shown in Fig. 1; the rod 22 extends along one edge of one of the arms 6 which rests on the roof, and is supported in metal straps 23 secured to one edge of said arm, and said rod 22 is adjustably secured in said straps 23 by thumb screws 24, as clearly shown in Fig. 3. By means of said thumb screws 24 the hooked rod 22 may be adjusted longitudinally in its supports, to lengthen or shorten and change the position of the scaffolding on the roof, according to the width of the roof, or the portion of the roof desired to be reached from the scaffolding. The hooked rod 22 may also be turned around in its supports, as shown in Figs. 2 and 3, so that the hooked end 22′ may extend against the side of the horizontal support 1.

From the above description, in connection with the drawings, the operation of my improved adjustable staging or scaffolding will be readily understood by those skilled in the art.

When it is desired to use the scaffolding upon both sides of the roof at the same time, the scaffolding is supported on the ridge of the roof, as shown at the left in Fig. 1. This use of the scaffolding corresponds with the use of the scaffolding shown in my said patent.

When it is desired to use the scaffolding only on one side of the roof, as shown at the right in Fig. 1, the arms 6 extend upon one side of the roof only, and the hooked end 22′ of the rod 22 is hooked over the ridge of the roof to hold the scaffolding in place, and the removable pin 16 is drawn out, and the lower set of bars 2, 2, of the horizontal supports 1, is raised so as to extend in a horizontal plane, and at an angle to the other set of bars 2, 2, of the horizontal supports 1, and is retained in position by the arm 7, and the rack teeth 8 thereon. Planks may then be placed upon the horizontal bars 2, 2, as shown by dotted lines at the right in Fig. 1.

The advantages of my improvements in the adjustable staging or scaffolding shown in the drawings and above described, will be readily appreciated by those skilled in the art.

I provide an adjustable staging or scaffolding which may extend only upon one side of the roof, and which is provided with means for securing the scaffolding to the ridge of the roof, which means occupy but little space and can be folded up with the other parts of the scaffolding when not in use.

By making the bars 2, forming the horizontal supports 1, in two parts, or divided at their middle portion, the same can be taken apart when it is desired to pack the scaffolding in a small space for transportation, thus requiring only one-half the length of space required by the scaffolding shown in my said patent.

The removable holding pins 12 and 16 are preferably attached by cords or small chains to the horizontal support portion of the scaffolding, so that the same will not be lost.

It will be understood that the details of construction of some of the parts of my adjustable staging or scaffolding may be varied somewhat if desired.

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

1. In an adjustable staging or scaffolding, the combination with the horizontal supports, consisting of two sets of bars having a space between them, and provided with two sets of plates at their inner ends, one set of plates extending on the outside of and beyond the

ends of the other set of plates, and said plates hinged together by a pin to form a hinge joint between the horizontal supports at their inner ends, and a removable pin for rigidly securing the two sets of bars together at their hinge joint, of two outwardly extending arms adapted to rest on the roof, and pivoted at their inner ends to one set of bars, and two arms provided with rack teeth, and pivoted at one end to the outwardly extending arms, and adapted to extend in the space between the sets of bars, substantially as set forth.

2. In an adjustable staging or scaffolding, the combination with the horizontal supports, consisting of two sets of bars hinged together at their inner ends, with a space between said bars, and two outwardly extending arms pivoted at their inner ends to one set of bars, and two arms provided with rack teeth, and pivoted at one end to the outwardly extending arms, and adapted to extend in the space between the sets of bars, of means for attaching the staging to the ridge of the roof, consisting of a hooked rod adjustably secured to one edge of one of the outwardly extending arms which rest on the roof, substantially as shown and described.

3. In an adjustable staging or scaffolding, the combination with the horizontal supports, consisting of two sets of bars hinged together at their inner ends, with a space between said bars, and two outwardly extending arms pivoted at their inner ends to one set of bars, and two arms provided with rack teeth, and pivoted at one end to the outwardly extending arms, and adapted to extend in the space between the sets of bars, of means for attaching the staging or scaffolding to the ridge of the roof, consisting of a rod with a hooked end, adjustably secured to one edge of one of the outwardly extending arms, and means for bracing the horizontal supports, consisting of two movable brace rods, attached at one end to one edge of the outwardly extending arms, and attached at their other end to the arms provided with rack teeth, substantially as shown and described.

4. In an adjustable staging or scaffolding, the combination with the horizontal supports, consisting of two sets of bars hinged together at their inner ends, with a space between said bars, and two outwardly extending arms pivoted at their inner ends to one set of bars, and two arms provided with rack teeth, and pivoted at one end to the outwardly extending arms, and adapted to extend in the space between the sets of bars, of means for bracing the horizontal supports, consisting of two movable brace rods adapted to extend between the two arms provided with rack teeth, and attached at one end to one edge of the outwardly extending arms, and at the other end to the arms provided with rack teeth, substantially as shown and described.

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