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LIGHTNING-ROD SUPPORT.

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rods, and more particularly to improved ping, the brace strap 6 and the attachment means for securing the point portion of the strap 3 jointly acting as a conductor from rod upon the ridge of the roof and for connecting said point portion with the conducting cable.

According to the present invention the point portion of the rod may be securely attached to the ridge without perforating the

10 roof for the insertion of securing devices, and may be rapidly and conveniently applied.

The invention consists in the novel construction and combinations of parts as set 15 forth in the appended claims.

In the accompanying drawings illustrating the invention, Fig. 1 is a side view of the invention as applied to a horizontal ridge tile. Fig. 2 is a section on the line 2-2 of

20 Figure 1. Fig. 3 is a similar view illustrating the several parts and the several steps in the application of the device. Fig. 4 is a side view of the device as applied to a tile

laid on an inclined ridge. Fig. 5 is a view
25 similar to Figure 1, showing the application to a slate roof. Fig. 6 is a detail fragmentary perspective view.

In these drawings, numeral 1 designates the point portion of the rod, which may be

- of any desired form, terminating at its base 30in a flattened portion 2, provided with perforations for receiving suitable bolts 7, where by the point portion is secured between the upper ends of attachment straps 3. The
- straps 3, preferably of copper, are of flat plia-35 ble nature, and are designed to extend divergently across the ridge member 2' of the roof and back upwardly thereunder at 3' a suffi-

cient distance to secure the point portion 40 rigidly upon the roof. Below the portions engaged by the part 2 of the point portion the straps 3 are perforated for the reception of a clamping bolt 4 the utility of which will be explained in connection with the method of attachment of the device.

4, and having a slotted lower end at 6' adapt-50ed to engage the bolt 8 by which the cable said point portion and the ridge member, a clip 9 is attached to strap 3. The brace strap conducting cable secured to one of said at-6 will serve also as an additional conductor between the point portion and the cable, in-55 asmuch as the upper end of the brace strap 6 cal connection between said point portion and the lower end of the base 2 of the point and said cable.

The invention has relation to lightning portion of the rod are approximated, or lapbase 2 to the cable 5.

In applying the device the attachment straps 3 are inserted below the tile or other ridge member of the roof, one upon each side of the ridge, and are bent upwardly around the edges of the tile so as to meet above the 65 ridge. The point portion 1 is now bolted between the ends of the straps 3 and the bolt 4 is inserted in its perforations and tightened to draw the straps 3 together and tighten the connection with the ridge tile. This tighten- 70 ing action is made more effective by the location of the bolt 4 between the ridge member and the point portion 1, where space is provided for proper tensioning of the attachment straps 3, the arrangement also permit- 75 ting of automatic correction of unevenness of length between the two bent straps, since if the point is held vertical, the tension of the two straps will be equalized as the bolt is tightened. The brace strap 6 may now ⁸⁰ be put in place and the cable clamped to the device by means of the cable clip 9 and the bolt 8.

It will be noted that by the use of this invention the point portion is secured to the ⁸⁵ roof by means of inconspicuous members, and that the device may be rapidly applied to the roof by an unskilled person.

I claim:

1. In a lightning rod, a point portion, op- 90 posite flat pliable attachment straps adapted for insertion at their lower ends between the roofing plates and the ridge member of a roof and at their upper ends having bolt connection with said point portion, a clamp bolt 95 connecting said attachment straps between said point portion and the ridge member, and a conducting cable secured to one of said attachment straps.

2. In a lightning rod, a point portion, op- 100 posite flat pliable attachment straps adapted for insertion at their lower ends between the To the attachment strap 3 which is to for insertion at their lower ends between the carry the conducting cable 5 is secured the roofing plates and the ridge member of a short copper brace strap 6, preferably at- roof and at their upper ends having bolt contached at its upper end by means of the bolt nection with said point portion, a clamp bolt 105 connecting said attachment straps between tachment straps, and a short brace and conductor strap forming an additional electri- 110

3. In a lightning rod, a point portion having a flattened base, opposite flat pliable attachment straps adapted for insertion at their lower ends between the roofing plates 5 and ridge member of a roof and at their upper ends having bolt connection with said base, said base terminating at its lower end a short distance above said ridge member, a clamp bolt connecting said attachment straps 10 and drawing the same together in the interval beween said base and said ridge member to tighten the engagement of said attach-ment straps with said ridge member, and a brace and conductor strap and to one of the conducting cable carried by one of said at-15 tachment straps.

4. In a lightning rod, a point portion having a flattened base, opposite flat pliable attachment straps adapted for insertion at their lower ends between the roofing plates

and the ridge member of a roof and at their 29 upper ends having bolt connection with said base, said base terminating at its lower end a short distance above said ridge member, a clamp bolt connecting said attachment straps and drawing the same together in the inter- 25 val between said base and said ridge member to tighten the enggement of said attachment straps with said ridge member, a short brace and conductor strap having its upper end portion secured by said clamp bolt, and a 30 cable clip bolted to the lower end of said attachment straps, and a conducting cable carried by said clip.

In testimony whereof I aflix my signa- 35 ture.

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