June 24, 1930. J. H. PRESCOTT 1,768,268

CLIP FOR SECURING WOOD SLEEPERS TO CONCRETE FLOORS

Filed Sept. 22, 1927

FIG. 1.

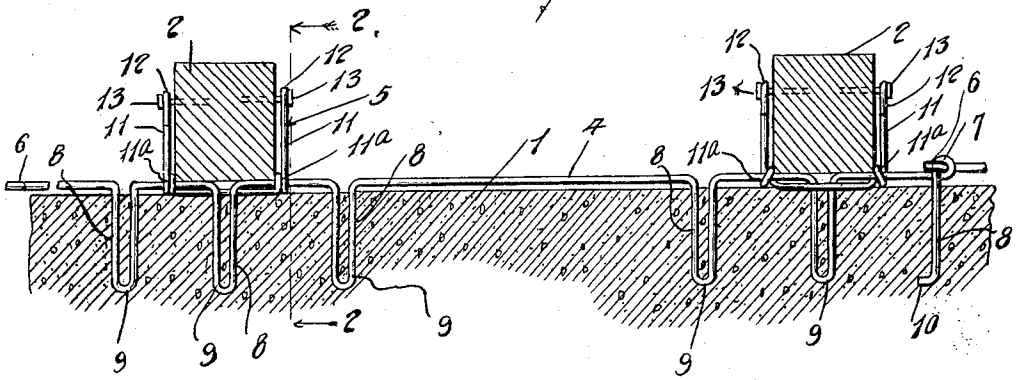


FIG. 2.

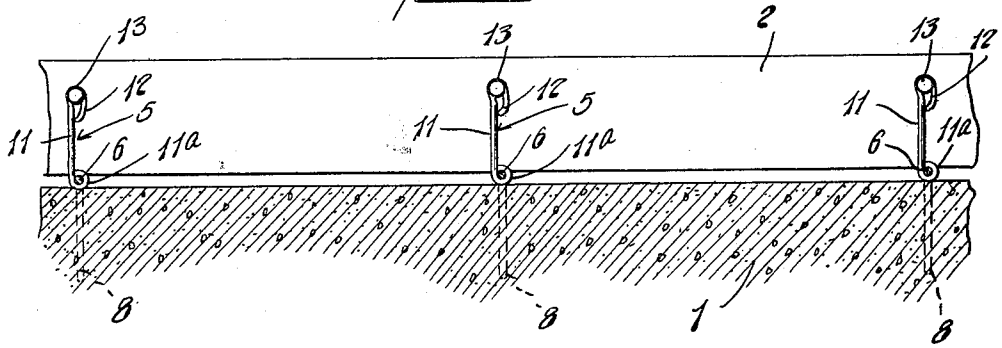
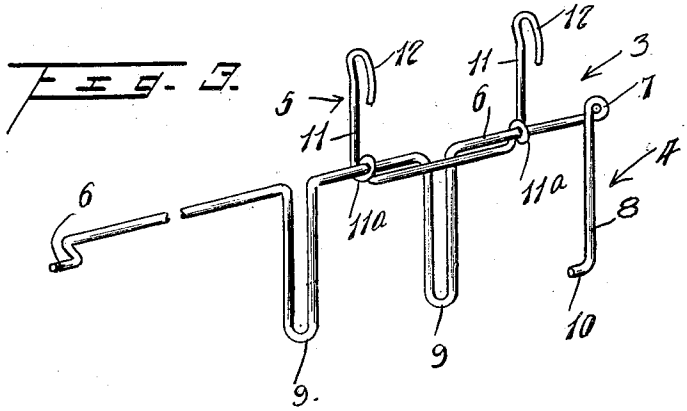


FIG. 3.



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UNITED STATES PATENT OFFICE

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CLIP FOR SECURING WOOD SLEEPERS TO CONCRETE FLOORS

Application filed September 22, 1927. Serial No. 221,359.

This invention relates to improvements in clips of that type employed to secure wood sleepers to concrete floors. Clips of this kind are arranged in rows with their bottom or anchoring members embedded in the floor, and this is done while the floors are in a green state. After the floors have set or hardened, the sleepers are positioned in and nailed to the top or retaining members of the clips.

These clips are objectionable for the reason that they are not so constructed as to permit the use of any clip or clips of a row that may become laterally displaced and for the reason that they are not so constructed as to permit the use of bent or crooked sleepers.

The present invention has for one of its objects to overcome the stated objection to these clips, and to attain this end comprehends the provision of clips in which the retaining members are adjustable laterally with respect to the row in which they are arranged.

With the foregoing and other objects in view, the nature of which will appear as the description proceeds, the invention consists of the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:

Figure 1 is a sectional view illustrating the application of clips constructed in accordance with my invention,

Figure 2 is a sectional view taken on the vertical plane indicated by the line 2—2 of Figure 1, and

Figure 3 is a perspective view of a slightly modified form of the clips.

Referring in detail to the drawing, 1 designates a concrete floor, 2 wood sleepers to which the floor boards are nailed, and 3 clips through the medium of which the sleepers are secured to the floor. The clips are arranged in rows, and they comprise rods or spacing bars 4 which are anchored to the floor 1 while it is in a green state and retaining members 5 in which the sleepers 2 are secured after the floor has set or hardened.

The rods may be made of any length desired. They may be long enough to underlie more than two of the sleepers 2, as shown in Figures 1 and 2, and when made of this length they are each equipped with retaining members 5 equal in number to the number of sleepers which they underlie. As shown in Figure 3, the rods 4 may be made long enough to merely underlie one of the sleepers 2, and when made of this length they are each equipped with a single retaining member 5.

The rods 4 are each provided at one end with a hook 6 and at the other with an eye 7, and they are also provided with a terminal anchor 8 and intermediate anchors 9 which are embedded in the floor 1. The anchor 8 is provided at its lower ends with an inwardly directed hook 10, and the anchors 9 are of U-form. Each bar 4 and its anchors 8 and 9 are preferably formed from a single length of wire. The retaining members 5 which are each preferably formed from a single length of wire, are of U-form, and the side bars 11 thereof are provided with loops 11^a through the medium of which they are pivotally and slidably connected to the bars 4. The free ends of the bars 11 are provided with eyes 12 for the reception of the nails 13 through the medium of which the sleepers 2 are secured to and within the retaining members 5.

As the retaining members 5 are pivotally connected to the bars 4, they will occupy a folded position on the floor 1 until the sleepers 2 are to be installed or put down, and in view thereof the floor may be freely used for wheeling or shoveling. When the sleepers 2 are to be installed or put down, the retaining members 5 are raised into a vertical position, and thereafter the sleepers are placed in such members and secured thereto by the nails 13. As the retaining members 5 are slidably connected to the bars 4, they may be adjusted longitudinally with respect thereto and transversely with respect to the rows in which the clips are arranged, whereby to permit the retaining members to be arranged for the reception of bent or crooked sleepers and to permit them to be

alined for the reception of straight sleepers in the event that one or more of the clips of a row should become out of alinement. The retaining members 5 have a wide range of adjustment on the bars 4, and due thereto, it is not necessary to arrange the clips with the retaining members in accurate alinement, with the result that a material saving of time and labor is effected. As many clips as may be practicable may be connected together through the medium of their hooks 6 and eyes 7, whereby to permit the clips to be easily and quickly positioned for anchoring to the floor 1 and whereby to properly space the rows of clips. The movement of the retaining members 5 on the bars 4 is limited by the eyes 11[a] and certain of the anchors 8.

It should be understood that the drawing is merely illustrative and does not pretend to give exact proportions. Furthermore, the said drawing is illustrative of a preferred construction, it being my expectation that various changes and modifications may be made without departing from the spirit and scope of my invention.

What is claimed is:—

1. A clip of the character set forth comprising a bar, said bar having depending anchoring members thereon adapted to be secured with the bar proper elevated, and a sleeper-retaining member having loops surrounding and slidably mounted on said bar.

2. A clip of the character set forth comprising a bar, said bar having depending anchoring members thereon adapted to be secured with the bar proper elevated, a sleeper-retaining member having loops surrounding and slidably mounted on said bar, and hooks at the opposite ends of said bar.

3. A clip of the character set forth comprising a bar, said bar having depending anchoring members thereon adapted to be secured with the bar proper elevated, a sleeper-retaining member having loops surrounding and slidably mounted on said bar, said anchors being integral with the bar and of U-shape, hooks at opposite ends of the bar, and a dependent anchor member at one end of the bar carrying one of the hooks and forming an eyelet at its junction with the bar.

In testimony whereof I affix my signature.

JOHN H. PRESCOTT.