

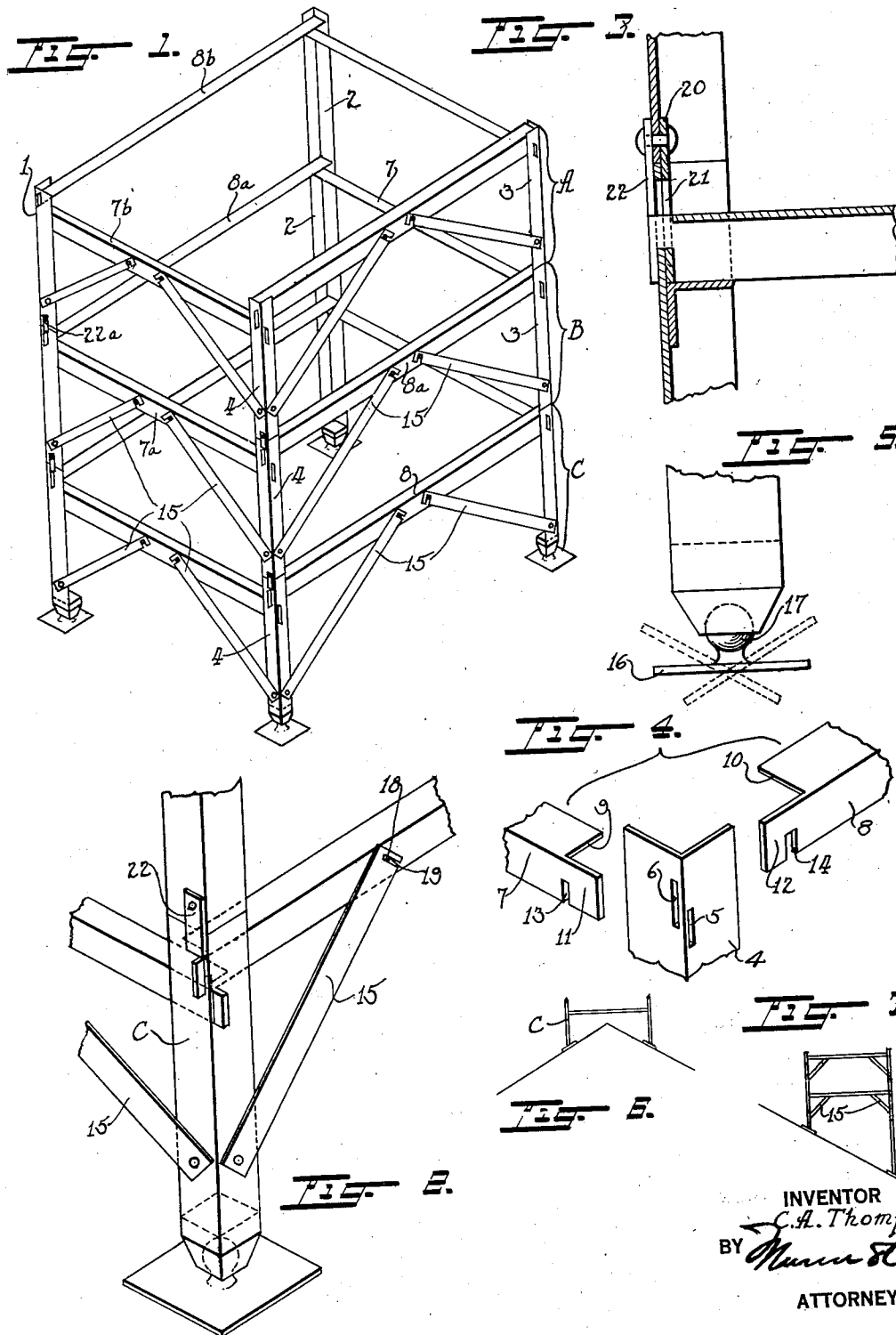
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SCAFFOLD

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# UNITED STATES PATENT OFFICE

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## SCAFFOLD

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My invention relates to improvements in scaffolds, and it consists in the combinations, constructions, and arrangements herein described and claimed.

5 An object of my invention is to provide a scaffold which may be placed upon a roof and held in a vertical position independent of the location upon the roof.

A further object of my invention is to provide a device of the type described which is simple in construction, durable and efficient for the purpose intended, and which may be readily assembled.

15 A further object of my invention is to provide a device of the type described which has novel means for locking and interlocking the various members together so as to provide a rigid construction.

A further object of my invention is to provide a device of the type described which may be used efficiently upon the ground, within or upon a building, and which has novel means whereby the supporting members may rest firmly independent of the unevenness of the ground or the roof or the other portion of the building supporting the device.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming part of this application, in which

35 Figure 1 is a perspective view of my device,

Figure 2 is an enlarged perspective view of a portion of my device,

40 Figure 3 is a detail sectional view of the securing means,

Figure 4 is a detail group of the interlocking members,

Figure 5 is a detail view of the swivel support, and

45 Figures 6 and 7 are diagrammatic illustrations of the device when disposed upon a roof.

In carrying out my invention, I provide a plurality of sections A and B and supporting legs C. The sections A and B are identical in construction, and as many sections may

be employed as desired. The sections are provided with vertical supports 1, 2, 3, and 4. These supports are formed of angle members and are provided with a plurality of lower openings 5 and a plurality of upper 55 openings 6. Horizontal sets of members 7 and 8 are provided with cutaway portions 9 and 10, respectively, for a purpose hereinafter described. These cutaway portions provide projections 11 and 12 which have slots 60 13 and 14, respectively, disposed therein. Brace rods 15 are pivotally carried by the vertical supports 1 to 4, inclusive, and the supporting legs C. The supporting legs C are provided with supporting plates 16 which 65 are connected thereto by means of swivels 17.

In assembling the device, the supporting legs C are first connected in sets by means of the horizontal bars 7. The projections 11 of the bars 7 extend through the openings 5 70 until the slot 13 is in alignment therewith, and then by moving the bars 7 downwardly, they may be locked in place. Two of the bars 8 may then be inserted in place, allowing their projections 12 to extend through the 75 openings 6 until the slots 14 are in alignment therewith. Then by moving the bars 8 downwardly, they may be firmly secured in place. Pins 18 are provided on the bars 7 and 8 and are arranged to be received in slots 19 in the 80 ends of the brace rods 15, whereby the brace rods may be secured to the horizontal bars 7 and 8.

In placing section B upon the base portion or the supporting legs, the vertical supports 85 1 to 4, inclusive, of section B are first disposed upon the ends of the supporting legs C before the bars 8 are secured in place. The vertical supports are provided with projections 20 which have slots 21 therein arranged to align 90 with the slots 6. When the horizontal bars 8 are secured in place, these horizontal bars secure the vertical supports to the supporting legs. Locking latches 22 are pivotally carried by the vertical supports 1 to 4, inclusive, and 95 are arranged to swing into engagement with the horizontal bars 8 for locking them in place. The bars 8 will also lock the bars 7 in place. The horizontal bars 7a for the section B may then be secured in place. The vertical 100

supports 1 to 4, inclusive, of section A may then be secured in place by the horizontal bars 8a and locked in place by the locking latches 22a. The horizontal bars 7b and 8b may then be inserted in place. The horizontal bars may be held against displacement by means of the brace rods 15 which are secured in place due to their connections with the pins 18.

Numerous other sections may be secured in place in a similar manner, if so desired. The swivel supporting plates 16 enable the device to rest firmly upon the ground or roof or in any other location. In Figures 6 and 7 the device is shown resting upon a roof. In Figure 7 the innermost supporting legs are eliminated thus allowing the device to rest firmly upon the roof and extend vertically therefrom.

I claim:

1. A scaffold construction comprising a plurality of sections arranged in superimposed relation, said sections comprising corner posts and detachable members for connecting the same, the upper ends of said posts being provided with a plurality of openings for receiving the end portions of said detachable members, the lower ends of said posts being provided with securing members having openings arranged to be aligned with certain of the openings in the upper ends of the posts when the lower ends are disposed contiguous to the upper ends, certain of said detachable members having recesses for receiving certain portions of said corner posts when the ends of the detachable members are disposed within certain of the openings in said corner posts, the other of said detachable members being provided with recesses arranged for receiving portions of the corner posts and said securing members when the ends of the detachable members are disposed within the other of the openings in said corner posts, and a base section adapted for supporting said sections and connected therewith.

2. A scaffold construction comprising a plurality of sections arranged in superimposed relation, said sections comprising corner posts and detachable members for connecting the same, the upper ends of said posts being provided with a plurality of openings for receiving the end portions of said detachable members, the lower ends of said posts being provided with securing members having openings arranged to be aligned with certain of the openings in the upper ends of the posts when the lower ends are disposed contiguous to the upper ends, certain of said detachable members having recesses for receiving certain portions of said corner posts when the ends of the detachable members are disposed within certain of the openings in said corner posts, the other of said detachable members being provided with re-

cesses arranged for receiving portions of the corner posts and said securing members when the ends of the detachable members are disposed within the other of the openings in said corner posts, means for locking certain of the detachable members within their respective openings, said locked detachable members being thereby held rigidly in contact with the other of said detachable members, and a base section adapted for supporting said sections and connected therewith.

3. A scaffold construction comprising a plurality of sections arranged in superimposed relation, said sections comprising corner posts and detachable members for connecting the same, the upper ends of said posts being provided with a plurality of openings for receiving the end portions of said detachable members, the lower ends of said posts being provided with securing members having openings arranged to be aligned with certain of the openings in the upper ends of the posts when the lower ends are disposed contiguous to the upper ends, certain of said detachable members having recesses for receiving certain portions of said corner posts when the ends of the detachable members are disposed within certain of the openings in said corner posts, the other of said detachable members being provided with recesses arranged for receiving portions of the corner posts and said securing members when the ends of the detachable members are disposed within the other of the openings in said corner posts, and a base section comprising corner posts and detachable members, the detachable members and the top end portions of said post being analogous to those comprising said first named plurality of sections whereby said plurality of sections may be mounted upon and secured to said base section.

Signed at Harvard in the county of McHenry and State of Illinois this 19th day of December, A. D. 1928.

CARL A. THOMPSON.