United States Patent

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[54] **PORTABLE SCAFFOLD**
2 Claims, 5 Drawing Figs.

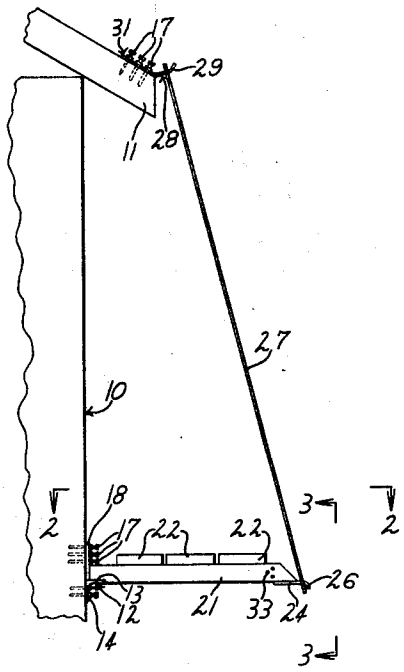
[52] **U.S. Cl.** **182/82,** 182/150
[51] **Int. Cl.** **E04g 3/08**
[50] **Field of Search** 182/82, 229, 150; 248/235

[56] **References Cited**
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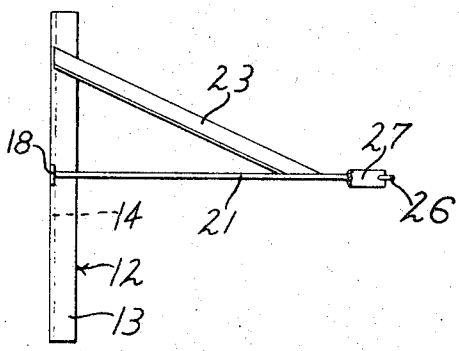
ABSTRACT: A portable scaffold having horizontal support detachably connected to side of building. Lateral support is carried by horizontal support and projects therefrom to support load carrying members. Outer end of lateral support is detachably connected to one end of upstanding support with other end of upstanding support connected to stationary member.



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FIG 2



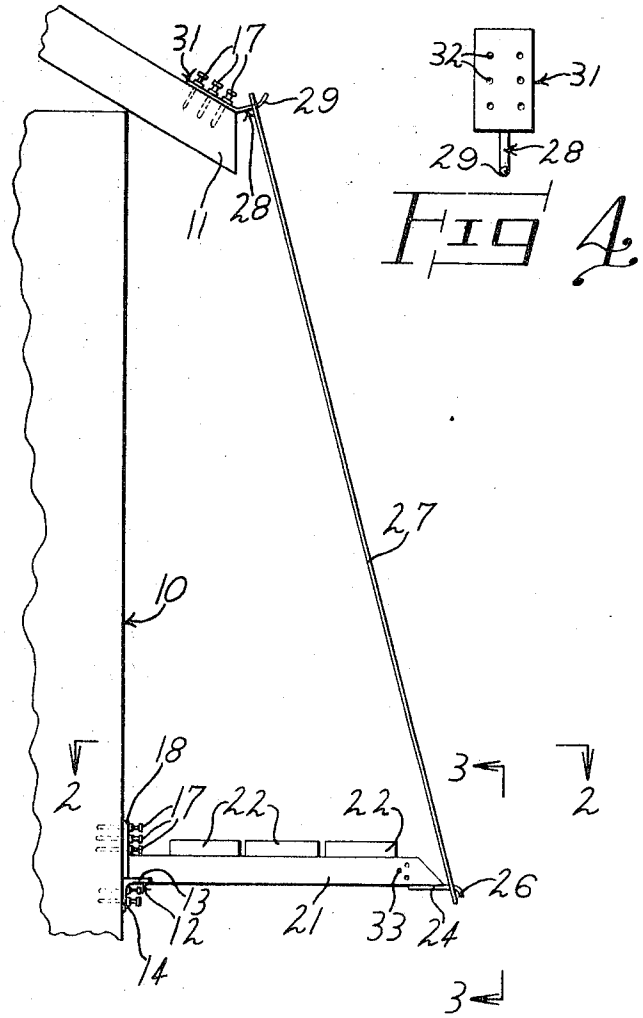


FIG 1

FIG 4

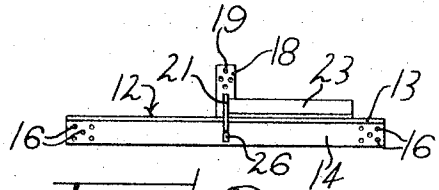


FIG 3

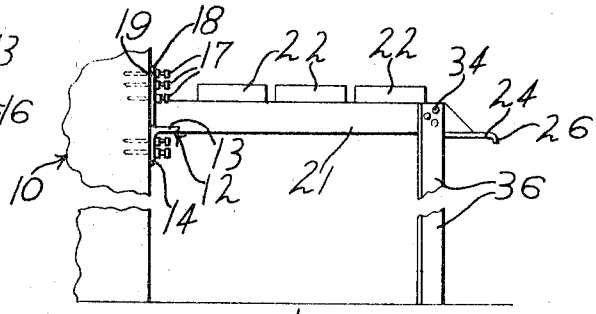


FIG 5

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PORTABLE SCAFFOLD

BACKGROUND OF THE INVENTION

This invention relates to a portable scaffold and more particularly to a scaffold which may be detachably connected to the side of a building for erecting or repairing cornices and the like.

As is well known in the art to which my invention relates, difficulties have been encountered in providing scaffolds for erecting cornices and the like due to the fact that such scaffolds have been supported from the ground or other supporting surface, thus requiring the scaffold to be of a substantial height and at the same time requiring the erection of a substantial number of structural members. While movable scaffold units have been supported from the roof of buildings, such scaffold units are not adapted for use on partly constructed buildings or buildings which do not have the required structural supports for movable scaffolds.

BRIEF SUMMARY OF INVENTION

In accordance with my invention, I provide a portable scaffold having an elongated, horizontal support detachably connected to the side of a building with a lateral support projecting from the horizontal support in position to support horizontal load supporting members. The outer end of the lateral support is detachably connected to one end of an upstanding member while the other end of the upstanding member is supported from a stationary support.

A portable scaffold embodying features of my invention is illustrated in the accompanying drawing, forming a part of this application, in which:

FIG. 1 is a side elevational view, partly broken away, showing my improved scaffold supported in position to serve as a cornice scaffold;

FIG. 2 is a view taken generally along the line 2–2 of FIG. 1;

FIG. 3 is a view taken generally along the line 3–3 of FIG. 1, the upstanding member being omitted for the sake of clarity;

FIG. 4 is an enlarged view showing the upper support bracket removed from the upper end of the upstanding support member; and,

FIG. 5 is a side elevational view, partly broken away, showing a modified form of my invention.

Referring now to the drawing for a better understanding of my invention, I show my scaffold unit mounted at the side of a building 10 beneath the cornice portion of the building indicated generally at 11. The scaffold comprises an elongated horizontal support member 12 which preferably is in the form of an angle iron member having a horizontal flange 13 and a vertical flange 14. As shown in FIG. 3, a plurality of openings 16 are provided in the vertical flange 14 of the elongated support member 12 for receiving securing elements, such as nails 17 having spaced apart heads whereby the nails may be easily removed when it is desired to remove the scaffold to another location. In view of the fact that such nails having axially spaced heads are conventional type nails well known in the art, no further description thereof is deemed necessary. Preferably, an upstanding bracket 18 is secured rigidly to the central portion of the angle iron 12 in position to engage the side of the building 10. Suitable openings 19 are provided through the bracket 18 for receiving the securing nails 17, as shown in FIGS. 1 and 3.

Secured to the upper flange 13 of the horizontal support 12 is a lateral support member 21 which projects outwardly therefrom in position to support horizontal, load carrying members, such as planklike members 22. The lateral support member 21 is rigidly secured to the horizontal support member 12 by suitable means, such as by welding. As shown in FIGS. 2 and 3, a diagonal brace, in the form of an angle iron 23 extends between and is secured rigidly to the members 12 and 21, such as by welding.

Secured rigidly to the outer end of the lateral support 21, such as by welding, is an outwardly projecting connector member 24 having a downturned end 26 adjacent the free end

thereof. Preferably, the connector member 24 is a rodlike member which is of a size to extend through a suitable opening provided adjacent the lower end of an upstanding member 27. Preferably, the upstanding member 27 is in the form of an elongated straplike member having an opening adjacent each end thereof.

The uppermost opening in the upstanding member 27 is adapted to receive an outwardly projecting connector element 28 having an upturned outer end 29 which extends through the opening in the upstanding member 27. As shown in FIGS. 1 and 4, the connector member 28 is in the form of a rodlike member which is secured rigidly to a platelike bracket 31. Suitable openings 32 are provided in the platelike member 31 for receiving securing elements, such as the removable nails 17 described hereinabove. As shown in FIG. 1, the platelike bracket 31 is secured to the roof portion of the building 10 whereby the outer end of the lateral support 21 is supported therefrom through the upstanding member 27. By providing a support bracket 31 in the form of a platelike member, the bracket may be inserted beneath roof shingles and secured in place to thus support the upper end of the upstanding member 27.

From the foregoing description, the operation of ma my improved scaffold shown in FIGS. 1 through 4 will be readily understood. The horizontal support member 12 is positioned alongside the building 10 at the proper elevation and is secured to the building by the removable nails 17. The upper support bracket 31 is secured to the roof portion of the building 10 by the securing elements 17, as shown in FIG. 1, above the lateral support member 21. The upstanding member 27 is then detachably connected to the connector members 24 and 28 by passing the outer ends 26 and 29 through the openings in the ends of the upstanding strap member 27 whereby the outer end of the lateral support member 21 is supported from the support bracket 31. After a complete pair of the above described units have been installed alongside the building 10 in spaced relation to each other, the load carrying members, such as platelike members 22, are positioned across an adjacent pair of lateral support members 21.

Referring now to FIG. 5 of the drawing, I show a portable scaffold having a horizontal support member 12, as described hereinabove. That is, the horizontal support member 12 is provided with a horizontal flange 13 and a vertical flange 14. The horizontal member 12 is also provided with an upstanding, centrally disposed bracket 18. Suitable openings are provided in the flange 14 and upstanding bracket 18 for receiving removable nails, as described above. A lateral support member 21 is secured rigidly to the horizontal flange 13 and an outwardly extending connector member 24 is carried by the free end of the lateral support 21. A plurality of openings 33 are provided adjacent the outer end of the lateral support members 21 for receiving removable securing elements 34 which pass through the upper end of an upstanding support member 36. By providing the openings 33 in all of the lateral support members 21, the support members 21 are adapted for use with either the upstanding straplike member 27 or the depending member 36. The depending member 36 is in the form of a rigid structural member. The operation and use of the scaffold unit shown in FIG. 5 is the same as the erection and use of the scaffold shown in FIGS. 1 through 4 with the exception that the outer end of the lateral supports 21 are supported by depending upstanding members whereas with the lateral support 21 shown in FIGS. 1 through 4, the outer end thereof is connected to the lower end of a straplike member 27 with the upper end of the straplike member being connected to an overhead bracket 31, as described hereinabove.

From the foregoing, it will be seen that I have devised an improved portable scaffold which may be easily and quickly erected alongside a building and which may be quickly disassembled for movement to another location. By providing elongated, horizontal support members which engage the side of the building, the horizontal supports are readily secured to the building by the removable nails whereby there is a firm con-

tact between the sidewall of the building **10** and the vertical flange of the horizontal support. Also, by supporting the outer end of the lateral supports **21** by an upstanding support, the load is distributed between the supporting means adjacent opposite ends of the lateral supports **21**, thus providing a sturdy scaffold which requires a minimum of parts. Furthermore, by constructing the scaffold from a minimum of structural members and at least partially supporting the scaffold from the sidewall of the building, my improved scaffold may be readily installed and removed and transferred to different locations with a minimum of effort.

While I have shown my invention in but two forms, it will be obvious to those skilled in the art that it is not so limited, but is susceptible to various other changes and modifications without departing from the spirit thereof.

I claim:

1. In a portable scaffold adapted for attachment to a building:

a. an elongated, horizontal support member;

b. means detachable connecting said horizontal support member to the side of a building;

c. a lateral support member secured rigidly at one end to said horizontal support member and projecting outwardly therefrom in position to support horizontal load carrying members;

d. a platelike member disposed to engage the top surface of a building;

e. an outwardly projecting connector carried by the outer end of said platelike member; and

f. an upstanding member detachably connected at its upper end to said outwardly projecting connector and detachably connected adjacent its lower end to the outer end of said lateral support member.

2. A pr portable scaffold as defined in claim **1** in which said upstanding member is an elongated member having openings adjacent each end thereof and the outer end of said lateral support member carries an outwardly projecting connector member of a size to engage the lowermost opening in said upstanding member with said outwardly projecting connector carried by said platelike member engaging the uppermost opening in said upstanding member.