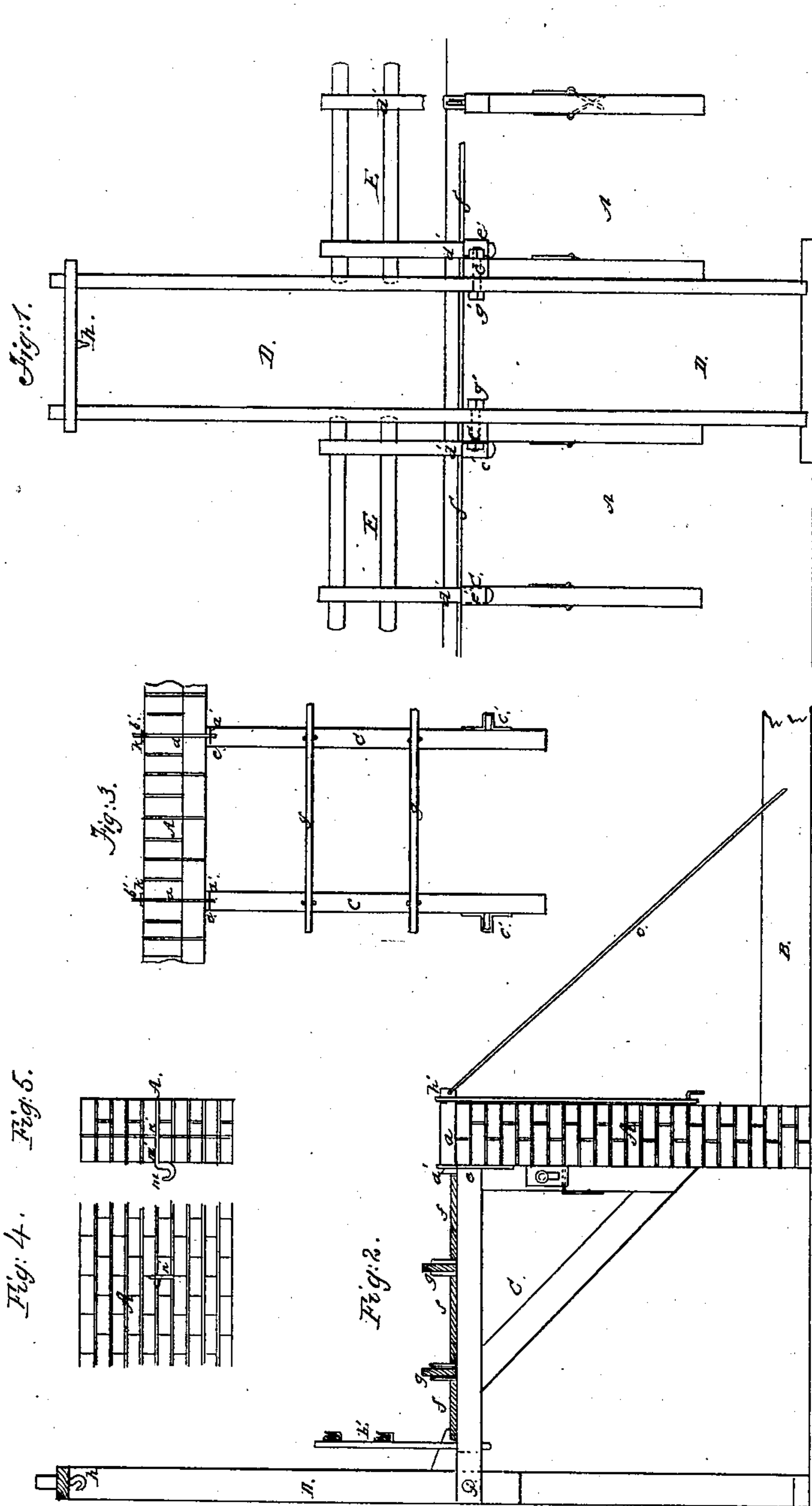


No. 75,176.

PATENTED MAR. 3, 1868.

J. H. MARTIN.
SCAFFOLDING FOR BUILDINGS.



Witnesses;
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JAMES H. MARTIN, OF COLUMBUS, OHIO.

Letters Patent No. 75,176, dated March 3, 1868; antedated February 22, 1868

IMPROVEMENT IN SCAFFOLDING FOR BUILDINGS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES H. MARTIN, of Columbus, in the county of Franklin, and State of Ohio, have invented certain new and useful Improvements in Scaffoldings for Buildings; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure 1 is a front view of a scaffolding constructed according to my invention.

Figure 2 is a central vertical transverse section of the same.

Figure 3 is a plan view of the same.

Figures 4 and 5 are detached views, showing a modification of one portion of the invention.

Similar letters of reference indicate corresponding parts in all the figures.

The object of this invention is to provide a scaffolding for the use of builders, carpenters, &c., which may be readily applied to the walls of either new or old buildings, and which will not only serve all the purposes of an ordinary scaffolding, but also greatly facilitate the hoisting of brick, mortar, and other materials, as required in building-operations.

The invention consists in the construction of the detachable supporting-brackets of the scaffolding with slotted suspension-plates, whereby the said brackets may be readily suspended from suitable hooks fixed in the wall to which the scaffolding is to be applied.

The invention further consists in the combination, with such brackets of bars placed in the joints of the wall, and properly braced, whereby a very firm support for the aforesaid brackets, or, in other words, for the scaffolding, is secured.

The invention further consists in a novel arrangement of a hoisting-frame, with reference to the brackets, whereby the ease and convenience with which building-materials may be raised to the scaffolding are very materially increased.

To enable others to understand the nature and construction of my invention, I will proceed to describe it with reference to the drawings.

A represents the wall of an unfinished building, and B the sleepers of the floor thereof. Inserted in the joints or spaces between the bricks at the top of the wall, at suitable distances apart, are bars *a*, made preferably of wrought iron, and with their ends projecting out beyond the sides of the walls, as shown in figs. 2 and 3, each of the said ends being notched at its upper side, so as to form a kind of hook, as indicated at *a'* *b'* in fig. 2. The end, *b'*, of each of these bars *a* is passed through a suitable slot in the upper end of a vertical rod, *b*, the lower end of which is spiked fast to the side of the wall. *c* represents an inclined rod, the upper end of which is hooked into a hole in the end last mentioned of the aforesaid bars *a*, and the lower extremity of which is fixed to the sleepers B of the floor. These rods *b c* constitute braces, the tension of which holds the bars *a* in their places against the strain exerted thereon by the brackets C. The said brackets, which may be made of suitable timber, and of the form represented more fully in fig. 2, are provided at their upper inner corners with plates *e*, formed with vertical slots or holes, into which are hooked the ends *a'* of the bars *a*, as shown more clearly in the figure just mentioned, the brackets being by this means suspended upon the wall, their lower ends being prevented from swinging laterally out of their places by being spiked to the wall, or by any other suitable means. Boards *f*, placed horizontally upon the brackets, constitute the flooring of the scaffolding, which, when desired, may be divided into compartments for the reception of brick, mortar, or other material, by boards *g*, placed on edge. The outer ends of the aforesaid brackets may be provided with sockets *c'*, which receive the lower ends of the posts *d'* of detachable panels E, which serve as guards to prevent persons or material from falling off from the scaffolding. Situated between the outer ends of the brackets is a vertical hoisting-frame, D, provided at its upper end with a hook or staple, *h*, to which is attached a suitable hoisting-tackle, for raising the building-materials to the scaffolding. When the weight of the materials to be raised is very considerable, the hoisting-frame should extend downward, so that its lower end may rest upon the ground, as shown in fig. 1, and also in red outline in fig. 2; but when the weight to be elevated is comparatively moderate, the hoisting-frame may have its lower end attached directly to the brackets, with-

out any other support than that afforded by the said brackets, the said frame, in either case, being secured to the brackets by detachable bolts *g'*.

When it is desired to attach the scaffolding to old walls in cases where the use of the bars *a* would be inadmissible, the slotted plates *e* of the brackets are attached to hooks *m*. The shank *m'* of each of the said hooks has its inner end *n'* turned at right angles thereto, and is inserted into a hole formed in the wall by any suitable means, in such manner that while the main length of the said shank is situated in one of the horizontal joints between the bricks of the wall, the inner end *n'* thereof will be brought or hooked into the adjacent vertical joint, and thus sustain the hook against the strain exerted upon it by the bracket attached thereto.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with the brackets *C*, of the bars *a*, fitted into the joints of the wall, and braced by suitable tension-braces, *c*, against the strain exerted thereon by the aforesaid brackets, substantially as and for the purpose specified.

2. The arrangement of a removable hoisting-frame, *D*, with reference to the scaffold constructed with detachable supporting-brackets *c'*, substantially as and for the purpose specified.

JAMES H. MARTIN.

Witnesses:

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