C. M. FRENCH & J. J. McFADDEN.

Scaffolds.

No. 155,018. Patented Sept. 15, 1874.

Fig. 1.

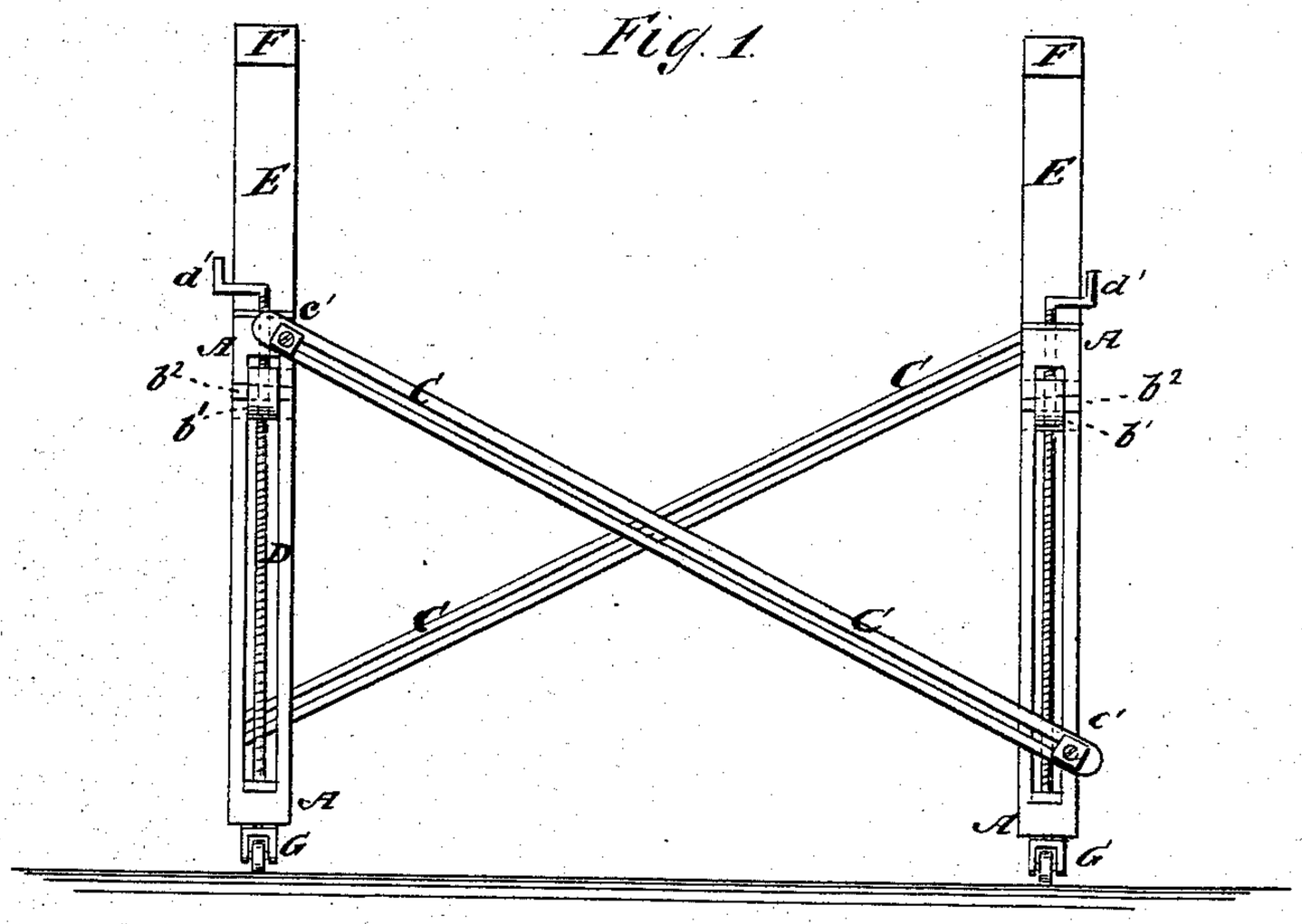
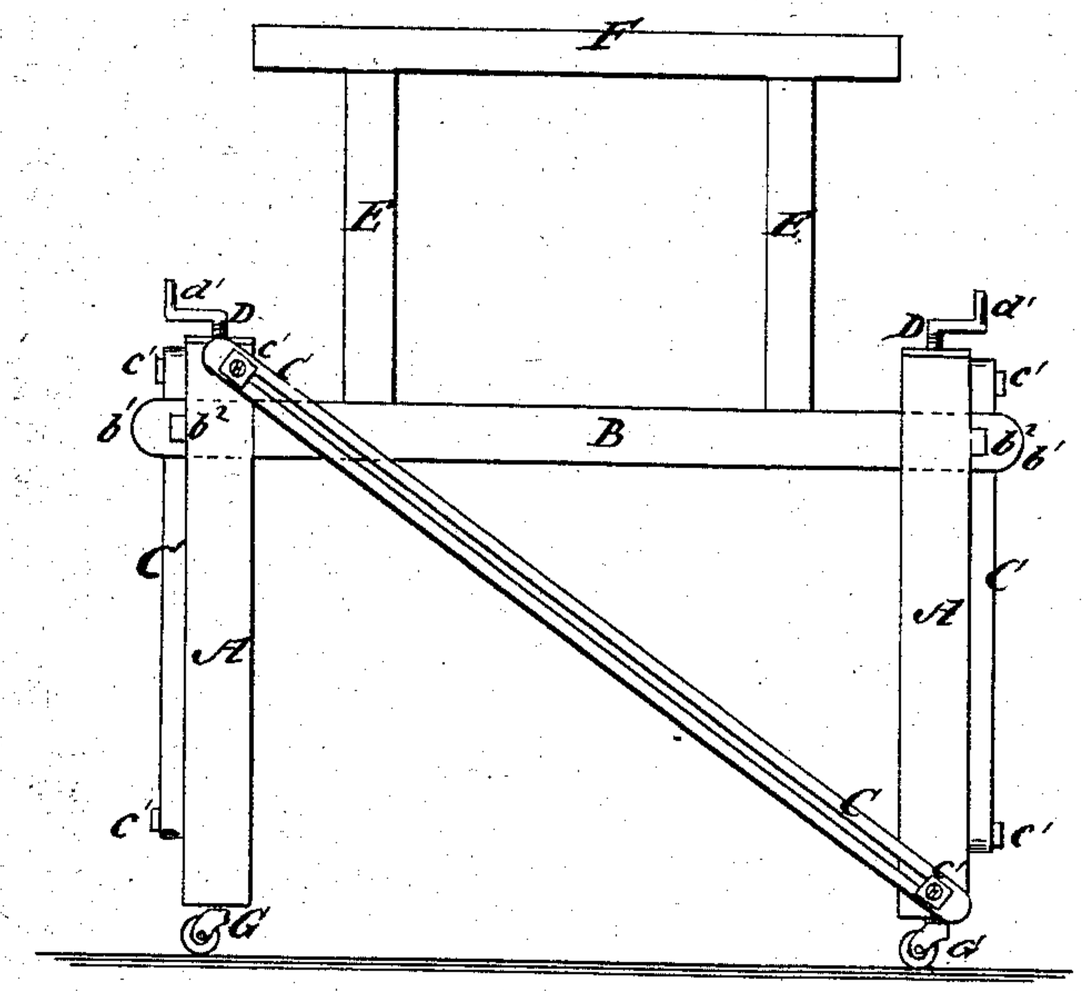


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES M. FRENCH AND JOHN J. McFADDEN, OF AKRON, OHIO.

IMPROVEMENT IN SCAFFOLDS.

Specification forming part of Letters Patent No. **155,018**, dated September 15, 1874; application filed May 23, 1874.

To all whom it may concern:

Be it known that we, CHARLES M. FRENCH and JOHN J. MCFADDEN, of Akron, in the county of Summit and State of Ohio, have invented a new and useful Improvement in Scaffolds, of which the following is a specification:

Figure 1 is a side view of our improved scaffold. Fig. 2 is an end view of the same.

Similar letters of reference indicate corresponding parts.

This invention has reference to that class of scaffolds, for carpenters, masons, and others, which are capable of vertical and longitudinal extensions and contraction; and it has for its object to simplify the construction of parts, and to enable the vertical and horizontal adjustment of the scaffold to be effected with greater ease and facility than in others heretofore constructed. The invention consists in a scaffold which comprises four slotted corner-posts, connected in pairs by horizontal platform-beams, which are capable of being adjusted in a vertical direction through the medium of long screw-shafts passing directly through the top ends of the vertical slotted parts, through the tenoned ends of the vertically-adjustable platform-beams, and bearing at their lower ends against metallic plates at the bottom of the slots in the posts; the devices above referred to constituting the means for adjusting the scaffold-beams in a vertical direction, while the longitudinal expansion or contraction of the entire scaffold is effected by means of slotted braces or connecting-bars, which extend either in a diagonal or horizontal direction, and are attached in an adjustable manner to the corner-posts.

A are four posts, of any convenient height, and of such a size as will give the necessary strength. The posts A are slotted longitudinally to receive the tenons b^1, formed upon the ends of the two cross-beams B. The ends of the tenons b^1 project upon the outer sides of the posts A to receive the keys b^2, to keep them in place while the braces C are being adjusted. The braces C are slotted longitudinally to receive the bolts or screws c', by which they are secured in place. The bolts or screws c' should be made with wide heads, or should be provided with washers, so that they may hold the braces, C, firmly. The scaffold should have one or more braces, C, at each side and end, and said braces may be horizontal or inclined at any desired inclination. D are long screws, which pass through the upper ends of the posts A, and through nuts secured in the tenons b^1, and their forward ends rest upon metallic plates secured in the bottoms of the slots in the posts A, so that, by turning the said screws D in one or the other direction, the beams B may be raised and lowered, as may be desired. The screws D have cranks d', or hand-wheels, formed upon or attached to their upper ends. E are short posts, the lower ends of which have tenons formed upon them to enter mortises in the beams B. To the upper ends of each pair of posts E is attached a cross-beam, F, thus forming an extension-frame, which may be attached and detached, as required. The extension-frames E F may be strengthened by braces C, if desired. To the lower ends of the posts A are attached casters G, so that the scaffold may be readily moved from place to place, as required.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The vertically and horizontally adjustable scaffold herein described, consisting of the slotted corner posts or standards A, connected in pairs by the horizontal vertically-adjustable platform-beams B, in combination with the adjusting-screws D, disposed within the posts, and the slotted braces or connecting-bars C C, all the parts being constructed and relatively arranged as herein set forth.

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Witnesses:
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