(No Model.)

C. WHITTINGHAM.

SCAFFOLD CLAMP.

No. 351,143. Patented Oct. 19, 1886.

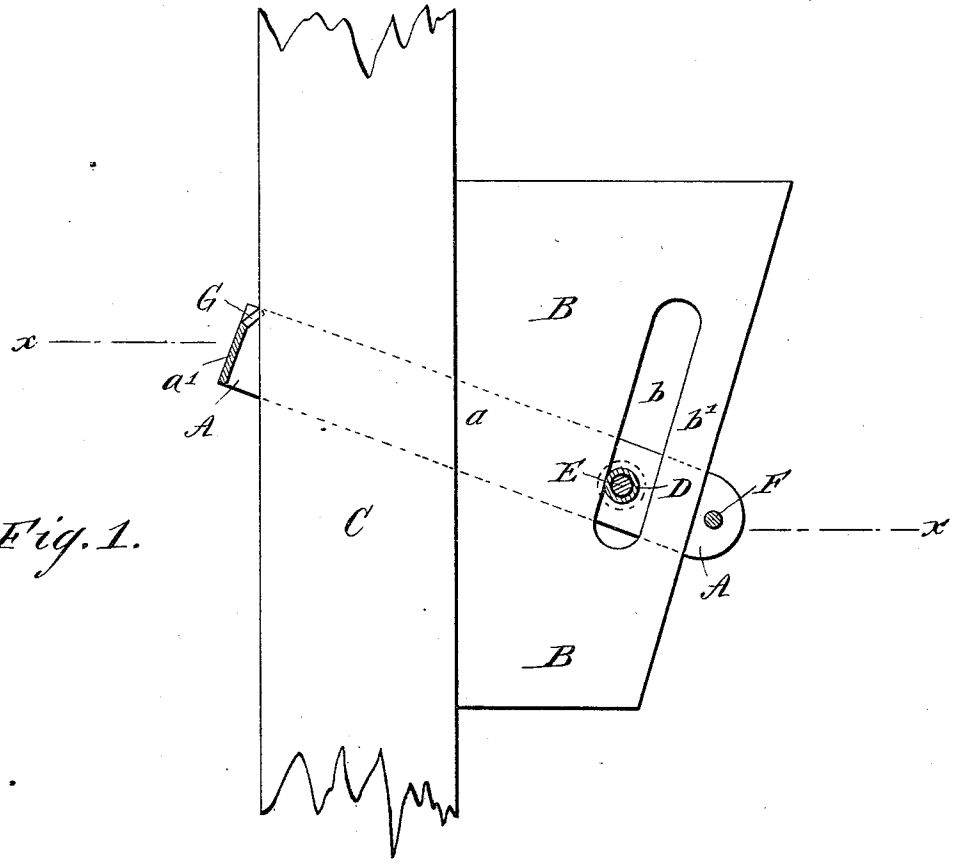
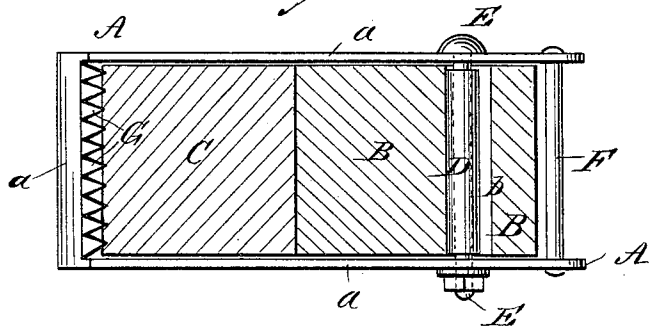


Fig. 1.

Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES WHITTINGHAM, OF TOLEDO, OHIO.

SCAFFOLD-CLAMP.

SPECIFICATION forming part of Letters Patent No. 351,143, dated October 19, 1886.

Application filed August 5, 1886. Serial No. 210,112. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WHITTINGHAM, of Toledo, in the county of Lucas and State of Ohio, have invented a new and Improved Scaffold-Clamp, of which the following is a full, clear, and exact description.

My invention relates to clamps for supporting the lateral bearers for scaffold-floors on the scaffold-posts, and has for its object to provide an effective device of this character, whereby splitting of the clamp-blocks will be prevented and the safe use of the scaffolds be promoted.

The invention consists in certain novel features of construction and combinations of parts of the scaffold-clamp, all as hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is an elevation of part of a scaffold-post with a bearer clamp-block held thereto, in accordance with my invention; and Fig. 2 is a plan view with the post and clamp-block in horizontal section on the line *x x*, Fig. 1.

The metal yoke A of the clamp embraces the clamp-block B and the scaffold-post C. A roller, D, on a pin, E, fixed to the opposite side bars, *a a*, of the yoke A passes through an inclined slot, *b*, in the clamp-block, and the outer ends of the side bars of the yoke are connected or stayed by a cross-pin, F, which serves to hold the yoke in position on the clamp-block.

The cross-bar *a'* of the yoke A is provided with a series of teeth or spurs, G, which prevent downslip of the block by entering the scaffold-post C at its side or face opposite that against which the clamp-block B is tightened by the downward pressure of a scaffold-bearer (not shown) on top of the clamp-block.

It will be noticed that the cross-pin and roller E D of the clamp are together somewhat less in diameter than the width of the clamp-block slot *b*. Consequently the weight of the scaffold-bearer on the block B will wedge the block tightly to the post A, as the spurs G enter the post, and the pressure of the roller D will come altogether on the inner wall or face of the slot *b*, and no outward pressure will be exerted by the roller on the narrow or thin part *b'* of the block outside of the slot *b*. Consequently there will be no liability of breaking out this part *b'* of the block and endangering the workman using the scaffold, as there is when the cross-pin or roller bears outwardly on the thin part of the block outside of the slot.

The clamp may be used without the roller D, or with the pin E only in the slot *b* of the clamp-block; but the construction with the roller is preferred, as it brings less wear on the block and clamp, and holds securely. The use of the cross-pin or stay F is also optional, as will readily be understood.

It is obvious that with the roller and cross-pin arranged in the slot of the clamp-block, the roller and pin are not so liable to be damaged by rough handling of the clamp as they are when arranged outside of a concaved face or edge of a clamp-block, as has heretofore been done.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a scaffold-clamp, and with a post, C, of a yoke, A, provided with a cross-pin and roller, as at E D, and a block, B, having an inclined slot, *b*, through which the pin and roller pass, and said slot made wider than the diameter of the pin and roller, substantially as shown and described, whereby the pressure of the pin and roller on the clamp-block will come only at the inner wall of the slot *b*, as set forth.

2. The combination, in a scaffold-clamp, and with a post, C, of a yoke, A, having spurs G on its cross-bar, and provided with a cross-pin and roller, as at E D, and a block, B, having an inclined slot, *b*, through which the pin and roller E D pass, and said slot made wider than the diameter of the pin and roller, substantially as described, for the purposes set forth.

3. The combination, in a scaffold-clamp, and with a post, C, of a yoke, A, having spurs G on its cross-bar, and tied or braced at its outer ends by a pin, F, and provided with a cross-pin and roller, as at E D, and a block, B, having an inclined slot, *b*, through which the pin and roller E D pass, and said slot made wider than the diameter of the pin and roller, substantially as shown and described.

CHARLES WHITTINGHAM.

Witnesses:
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