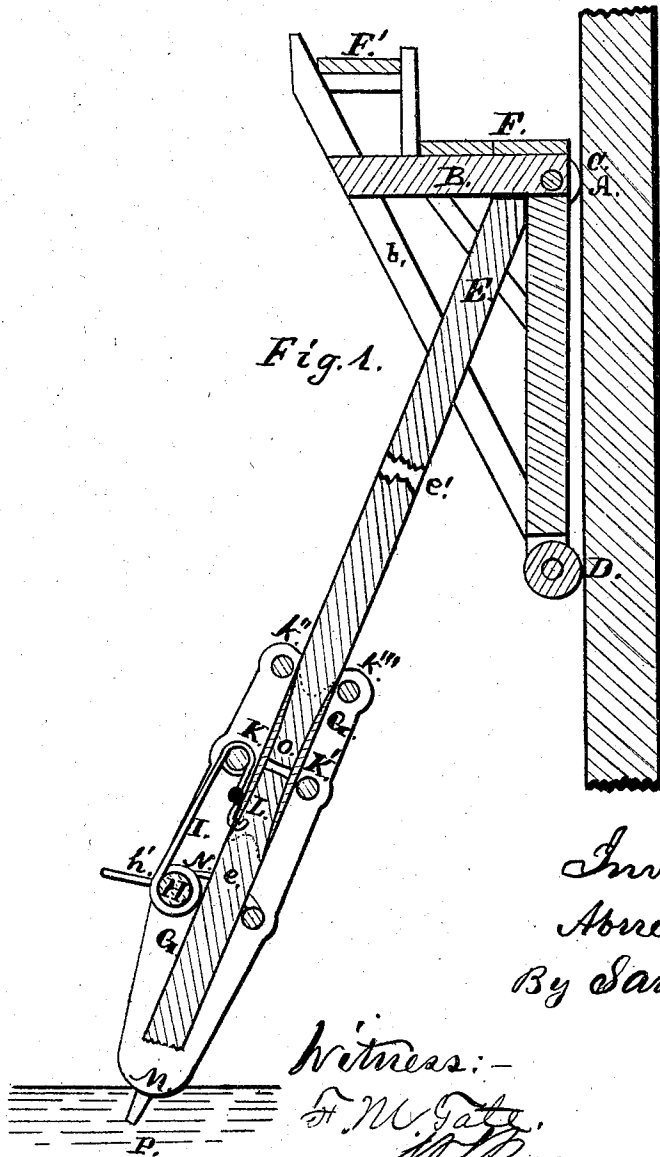


A. GATES.
Scaffolds.

No. 135,902.

Patented Feb. 18, 1873.



Inventor: -
Abner Bates.
By Saml. J. Wallace
Attorney.

Witness:—

H. M. Galt.

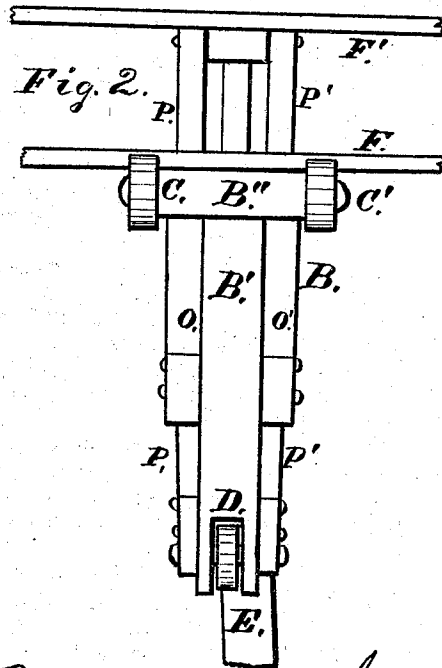
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jos. Yonkin,

Inventor.
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Attorney.

UNITED STATES PATENT OFFICE.

ABNER GATES, OF BURNSIDE, ILLINOIS.

IMPROVEMENT IN SCAFFOLDS.

Specification forming part of Letters Patent No. 135,902, dated February 18, 1873.

To all whom it may concern:

Be it known that I, ABNER GATES, of Burnside, Illinois, have invented a new and useful Improvement in Builders' Scaffolds, of which the following is a specification:

The object of this invention is to make a substantial builder's scaffold that can be quickly put up and taken down and adjusted to any height. It is made as herein set forth, referring to the drawing accompanying, in which—

Figure 1 is a vertical section of one supporting part of the apparatus as in use, with related parts. Fig. 2, Sheet 2, is a view of the car B as from the wall.

Against the wall A of a building is shown a part, B, which rests against it by rollers C D at the top and bottom. This bears the platform of boards F F' at the top. These boards reach from the part shown to one or more like parts at a distance along the wall, giving support to the other ends of the boards. This part B is arranged so as to be supported by the wheels C D on the wall and a part, E, from the other side and below, that bears the weight. At the point C there are two wheels, some distance apart horizontally, to give lateral support. The wheels allow the part B to be freely moved up and down the wall without being attached to it. The part G bears a windlass, H, which has a crank-arm, *h*, for turning. This has a rope, I, reaching from it up over a pulley, K, and down to the end of part E, where a knot or hook, L, is inserted therein, by which the turning of the crank *h* will force up the part E and cause the part B and scaffold to be elevated. The part E is held in place by bearings at K K' *k''* *k'''* and by the two sides of part G. The part G has two side parts, which have sharp-pointed feet at M to rest securely on the ground, to keep them from slipping. There can also be provision for a broad bearing, besides the sharp point, to bear the weight. The crank-windlass H has a pawl-and-ratchet arrangement, N, to pre-

vent its turning backward to let the scaffold down when not required. When it is wished to lower it the pawl is raised while the crank is turned backward by hand. The part E is made in separate sections, E *e*, by which when one length is run up another can be added at the bottom and the hook L transferred thereto. The lower ends of these sections are made to fit the top of the next by having a recess upward therein to receive a projection on the top of the next section; the bottom portions being made of iron, so as to adapt them therefor and give strength, as at O. The scaffold has a platform, F, for the workmen, and a part, F', raised therefrom as a table for the materials, &c.

The whole is raised and lowered, as the work progresses and occasion requires, without interfering with the workmen or the scaffold otherwise.

The car B is made with a vertical part, B', having a wheel, D, at the lower end, and with a cross-part, B'', at the top having wheels C C' at its two ends some distance each side of the center, so as to rest firmly against the side of the wall and be well braced sidewise by these two wheels when held up by shaft E.

I claim—

1. A builder's scaffold formed with the several parts of the platform, as shown, having parts F and F' on different levels, the car with wheels resting against the side of the house, and the elevating-beam E, all combined as set forth.

2. A builder's elevating scaffold-car formed of an upright central part and a top cross-part extending to a considerable distance on each side, and having wheels on each end of the cross-part resting against the wall, substantially as set forth.

ABNER GATES.

Witnesses:

SAML. J. WALLACE,
FREEDOM D. GATES.