(No Model.) 2 Sheets—Sheet 1.

D. S. FISHER.

SCAFFOLDING.

No. 380,254. Patented Mar. 27, 1888.

Fig. 1.

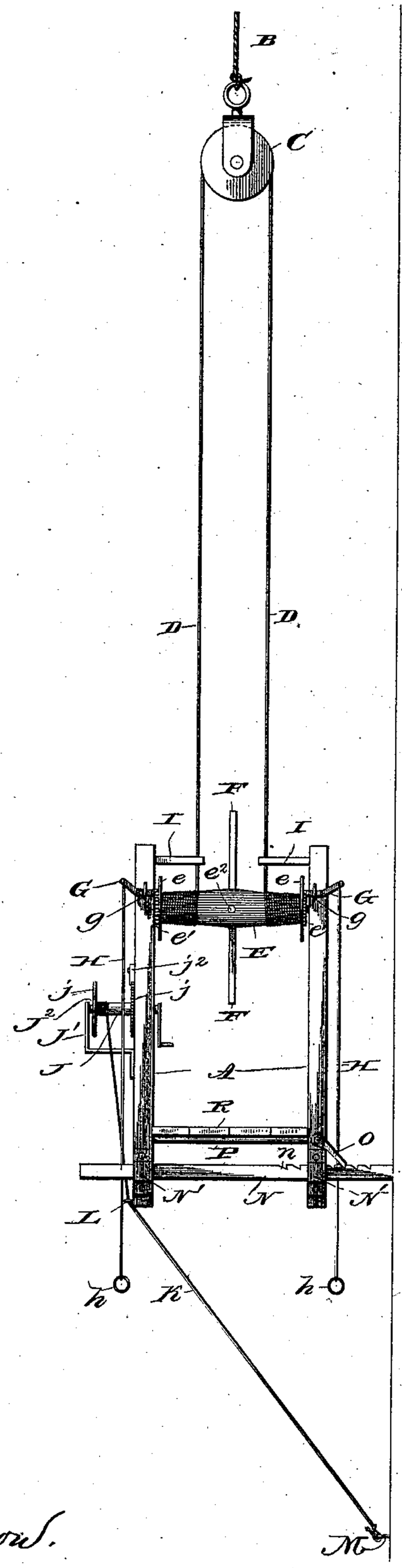
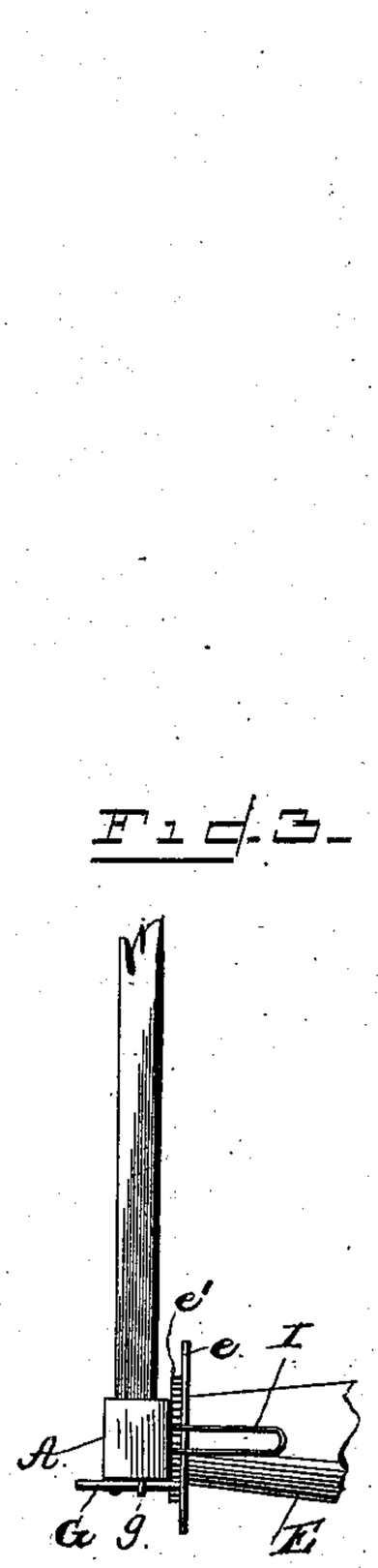


Fig. 3.



WITNESSES.

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E. W. Johnson.

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INVENTOR.

Attorney.

(No Model.)

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2 Sheets—Sheet 2.

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Fig. 2.

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UNITED STATES PATENT OFFICE.

DANIEL S. FISHER, OF EUREKA, ILLINOIS.

SCAFFOLDING.

SPECIFICATION forming part of Letters Patent No. 380,254, dated March 27, 1888.

Application filed November 3, 1887. Serial No. 254,179. (No model.)

To all whom it may concern:

Be it known that I, DANIEL S. FISHER, a citizen of the United States of America, residing at Eureka, in the county of Woodford and State of Illinois, have invented certain new and useful Improvements in Scaffolding; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in scaffolds; and it consists in the construction and arrangement of the parts thereof, which will be more fully hereinafter described, and pointed out in the claims.

The object of my invention is to provide a scaffold for the use of painters and other artisans, which is adjustable to and from a building, or vertically adjustable to the height of a building or edifice, the adjustability thereof being controlled from the scaffold by the workmen thereon.

In the accompanying drawings, which illustrate my preferred form of construction, and wherein like letters of reference indicate similar parts in the several views, Figure 1 is an end elevation of my improvement. Fig. 2 is a front elevation thereof. Fig. 3 is a detail plan view showing the relation of the windlass to the rope-guides, the ratchet wheels, and their pawls.

A indicates the end standards, which have transverse connecting and supporting rods P, upon which the scaffold-flooring R is mounted. At the lower outer ends of each of the standards A metallic guide-plates N′ are secured, through which a brace-rod, N, passes and has adjustable movement. The inner and upper surfaces of the said brace-rod N are formed with rack-teeth *n*, which are engaged by a pawl, O, secured to the side of one of the standards A adjacent thereto.

Between the upper portions of the standards A a windlass, E, is mounted upon a suitable shaft and having end guard-plates, *e*, and ratchet-wheels *e′*, which are engaged by latch-pawls G, pivoted to the side of the standards A and moving in guide-staples *g*, also secured to the said standards, and to the outer ends of which operating depending cords H H are attached, having lower end rings, *h*. The windlass E is formed with a series of central holes, e^2, which are adapted to be engaged by hand-bars F for revolving the same. To the upper inner opposing sides of the standards slotted guide-loops I are secured, through which the two ends of the suspending rope D is passed and wound around the windlass. The said rope D is passed through a pulley or sheave, C, which is supported by a rope, B, secured over the building.

On the outer side of the outer standard a smaller windlass, J, is supported in a shaft carried in a bracket, J′. This windlass has a guard-plate, *j*, at its outer end and a ratchet-wheel, *j′*, on its inner end, which is engaged by a pawl, j^2, secured to the standard adjacent thereto. The shaft J^2, carrying the windlass J, projects through the standard, and has a handle, j^3, secured to its inner end and accessible from the flooring of the scaffold. The one end of a rope, K, is wound on the windlass J, and, passing through a lower guide-staple, L, on the standard A, is secured to a suitable staple, M, secured to the building.

To raise and lower the scaffolding, the windlass E is operated to wind or unwind the rope or chain D. To adjust the scaffolding toward or away from the building, the rack-bar N is operated, as will be understood. When the proper horizontal adjustment has been obtained, the rope K is tightened by the windlass J to prevent the scaffold from swaying. The said rope is held in its adjustment by the ratchet-wheel *j′* in engagement with the pawl j^2.

It will be understood that the mechanism as just described will be employed at each end of the flooring or scaffold.

The utility and adaptability of my improvement being obviously apparent, it is unnecessary to further enlarge upon the same herein.

Having thus described my invention, what I claim as new is—

1. The combination of the standards, the cross-bar at the lower portion thereof for supporting the flooring, the adjustable ratchet-

bar for adjusting the scaffold to and from the building, the upper windlass, E, the latch-pawls G, the guide-loops I, the rope D, and the sheave C, substantially as described.

2. The combination, with the vertical supporting-standards having the lower cross-bar supporting the flooring, of the lower guide-plates, N′, the rack-bar N, moving therein, and the pawl O, engaging with said rack-bar, substantially as described.

3. The combination, with the standards A, supporting the scaffold-flooring R, of the bracket J′, supporting the windlass J, having a ratchet-wheel, j', at the inner end thereof engaged by a pawl, j^2, the rope K, and the staple L, substantially as described.

4. The combination of the standards supporting the flooring at their lower portion, the adjustable rack-bar engaged by a pawl at the lower portion of said standards, the upper windlass having ratchet-wheels and operating hand-bars, the latch-pawls operated by depending cords, the top guide-loops, the suspending rope, the sheave or pulley through which the suspending rope passes, the windlass J and the rope K, and the staple or loop L, substantially as described.

5. In a scaffold, the combination, with the standards, of the upper windlass controlling the vertical adjustment, the lower adjustable rack-bar, and the outer windlass having a rope secured thereto and to the building and in engagement with the lower portion of the scaffold, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL S. FISHER.

Witnesses:

JOHN SCHERTZ,

GEORGE I. SOMMER.