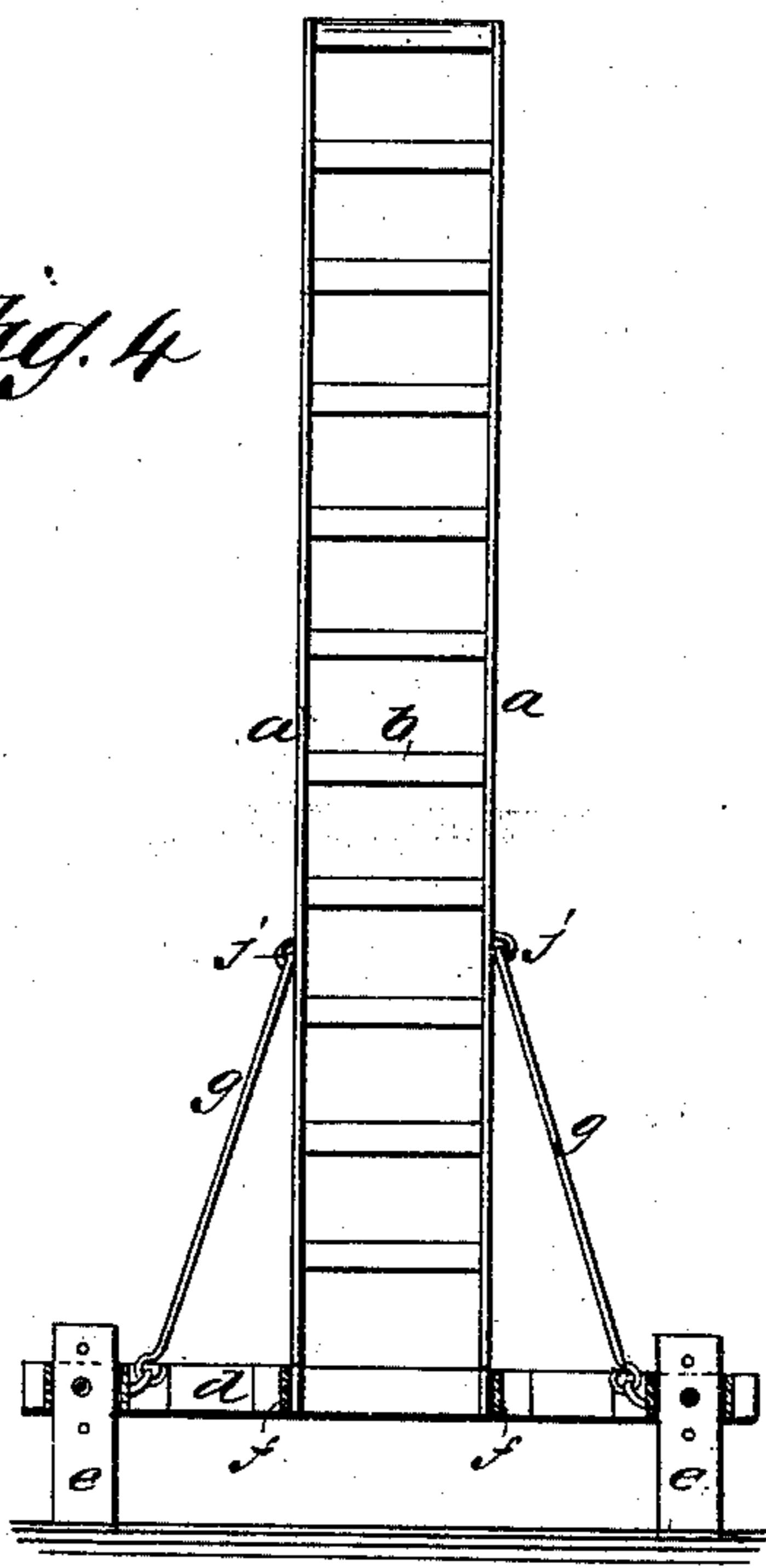
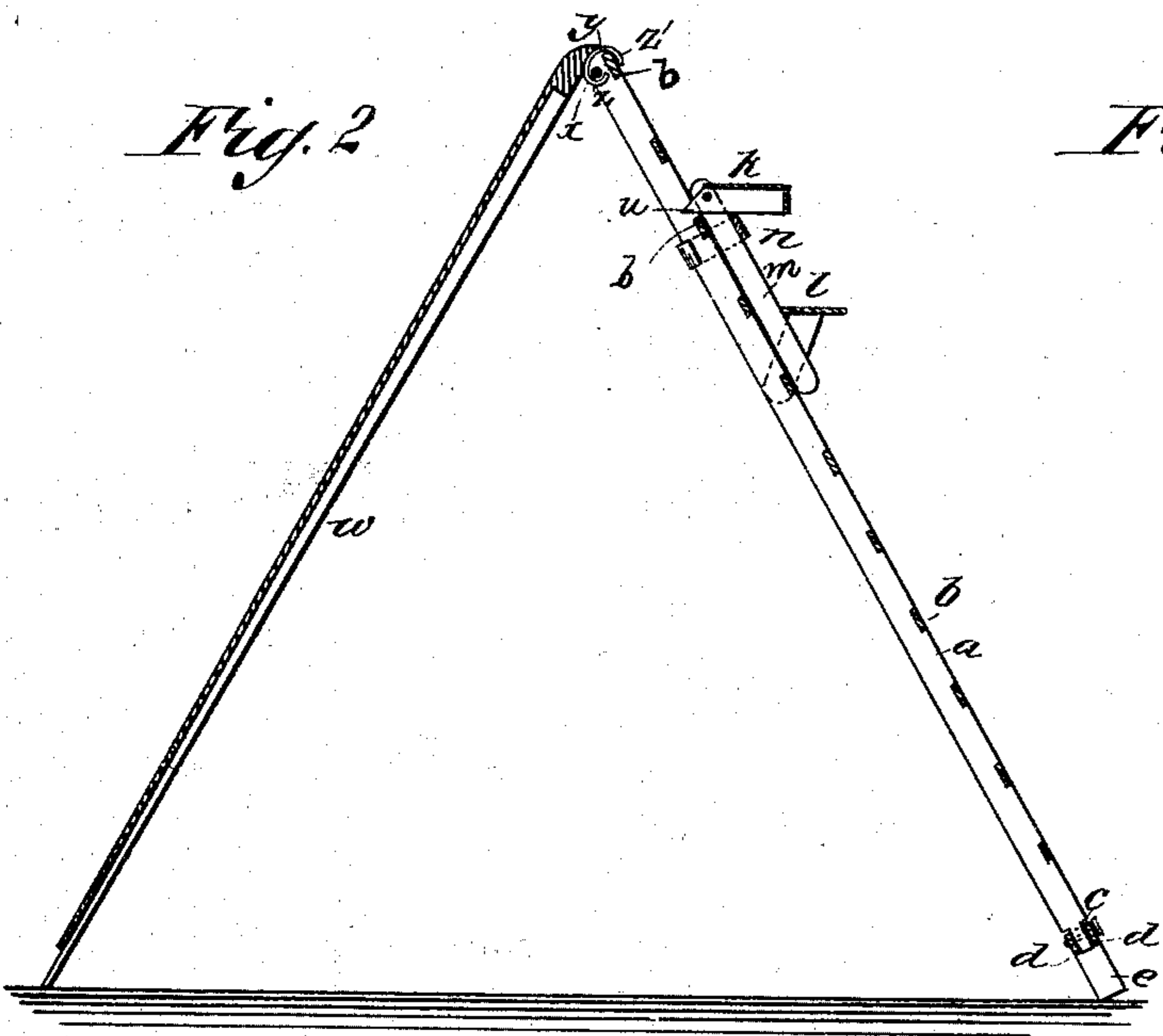
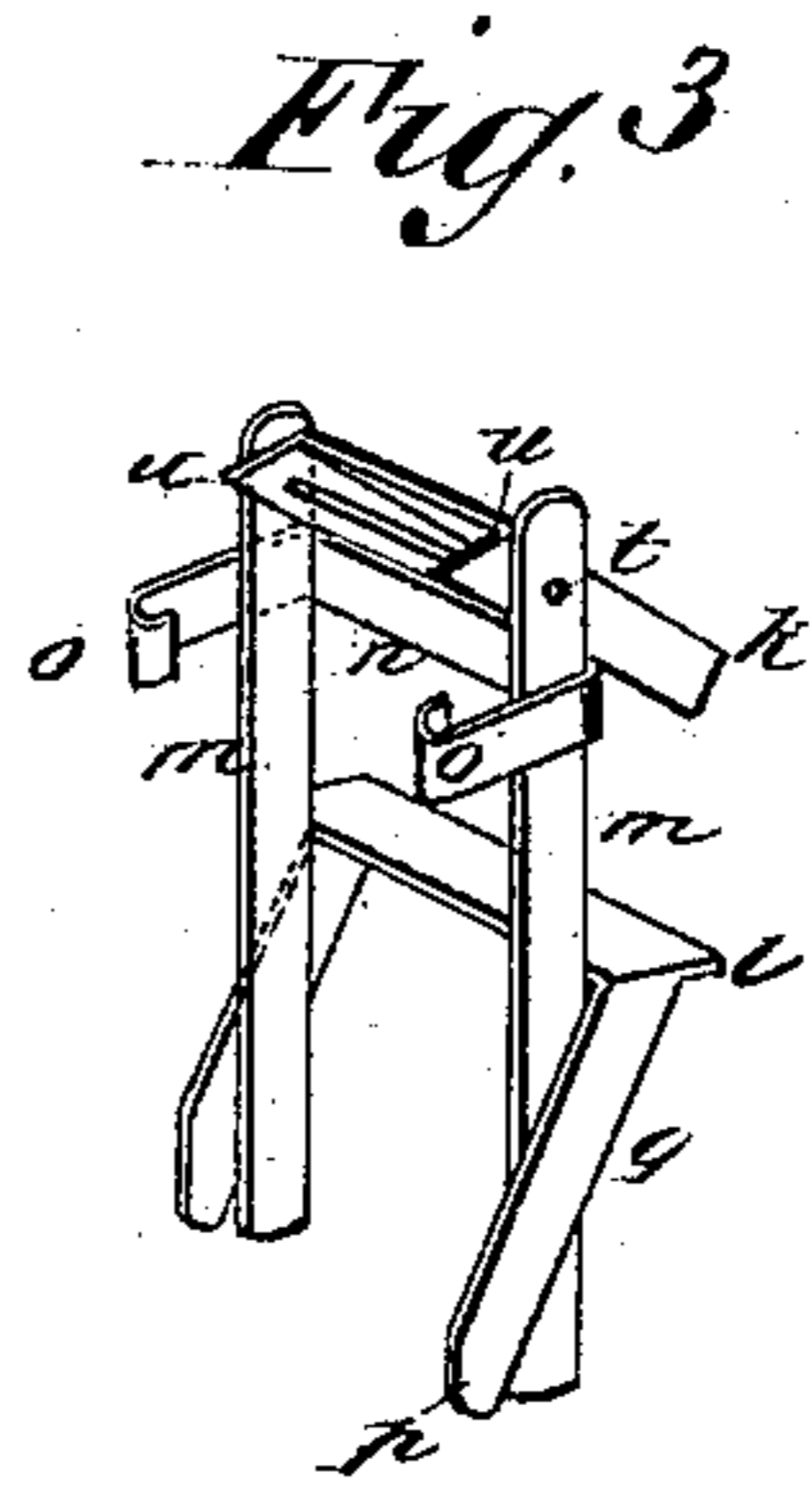
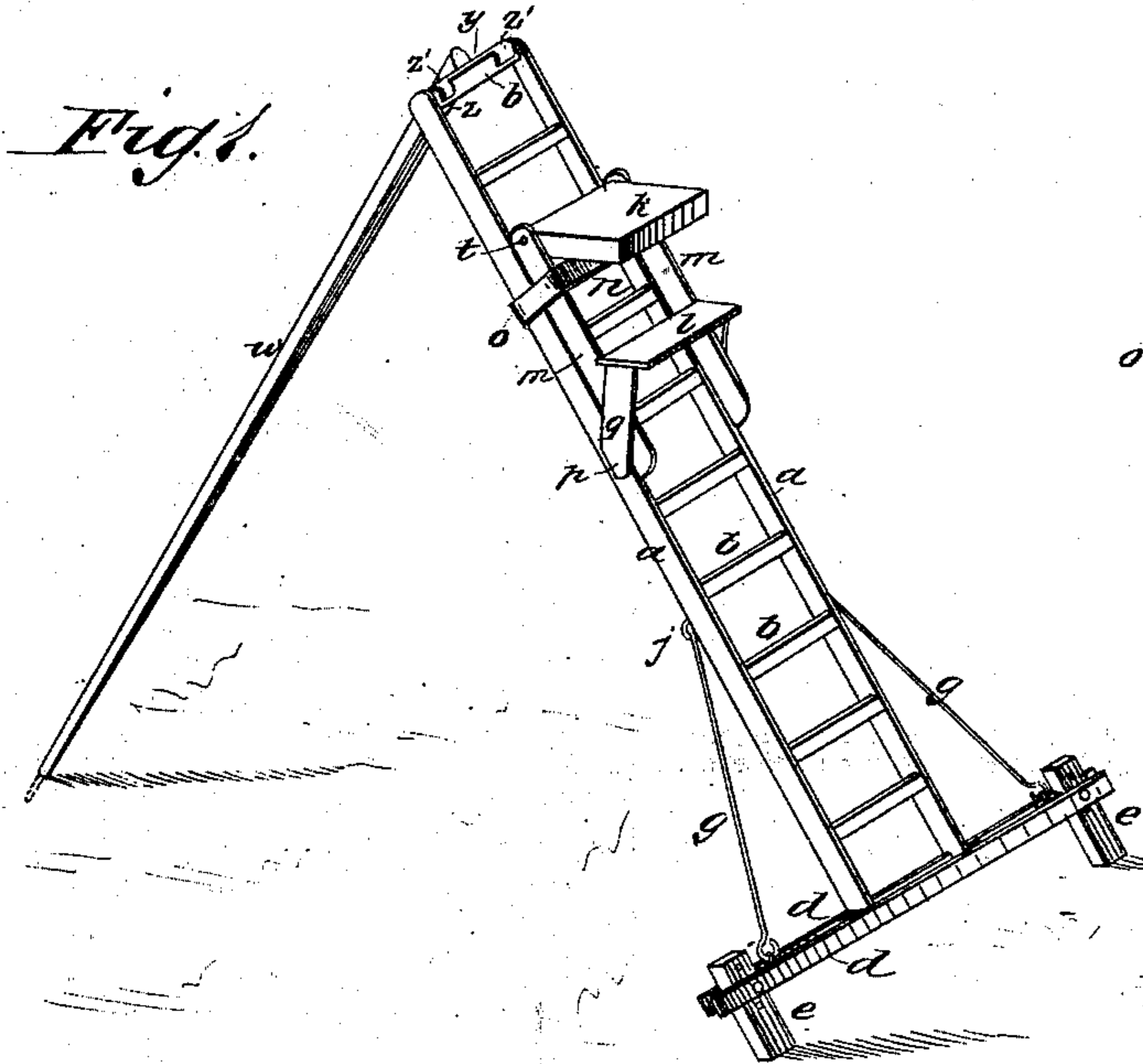


(No Model.)

C. BRIDGES.  
LADDER.

No. 270,008.

Patented Jan. 2, 1883.



WITNESSES:

*Francis McArthur.*  
*C. Sedgwick.*

INVENTOR:

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BY

*Munn & Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHARLES BRIDGES, OF SAN FERNANDO, CALIFORNIA.

## LADDER.

SPECIFICATION forming part of Letters Patent No. 270,008, dated January 2, 1883.

Application filed June 21, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES BRIDGES, of San Fernando, Los Angeles county, California, have invented a new and Improved Ladder, of which the following is a full, clear, and exact description.

My invention relates to improvements in ladders; and it consists in the peculiar construction and arrangement of parts, as herein-  
after fully described, and pointed out in the claims.

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

Figure 1 is a perspective view of my improved ladder. Fig. 2 is a sectional elevation of Fig. 1. Fig. 3 is a perspective view of the seat and foot-rest to be employed for fruit-picking, and Fig. 4 is a front elevation of the ladder and sectional elevation of the adjustable foot attachment employed for a level support of the ladder on uneven ground.

The sides *a* and the steps *b* may be constructed in any suitable form; but I prefer to employ flat bars and to notch the edges of the sides for reception of the steps, as shown. The lower ends of the side bars, *a*, are tenoned and shouldered, as shown at *c*, suitably to enter between and rest on the parallel bars *d* of the leveling foot attachment for the ladder, having vertically-adjustable legs *e* for adjusting it on uneven ground. The said tenoned lower ends of the side bars, *a*, are entered between the blocks *f*, which confine the side bars laterally, and the foot-bars *d* are extended laterally for stability in that direction, and connected by brace-rods *g* with sides *a* sufficiently above the foot for staying the ladder properly, the said  
braces being arranged to hook into eyes *j* of the ladder detachably, so that the foot attachment can be taken off readily at any time when the same is not required for use.

The seat *k* and the foot-rest *l*, for use when picking fruit, are attached to parallel bars *m*, connected together by them and by the clip-bar *n*, suitably for resting on the sides *a* of the ladder, while the clips *o* hook around bars *a*, and the lower extensions, *p*, of foot-rest standards *q*, below the bars *m*, secure the attachment on the side bars in a manner to allow it

to shift along said side bars, the clips *o* being slipped on from the ends of said bars *a*. The seat *k* is pivoted between the bars *m* at *t*, and it has points *u*, which project backward over a step *b* when the seat rests on the clip-bar *n* at the front of the bars *m*, and thereby the seat and foot-rest are supported whenever they are placed on the ladder.

The seat-frame and seat *k*, either with or without the connected foot-rest, may be adjusted to greater height on the ladder by simply pushing the frame upward, the points *u* passing the successive rounds until said points pass the round desired, when the seat will settle down and be firmly locked to the ladder, as shown in Fig. 2. To lower the seat it is swung on its pivots toward the ladder to disconnect the points *u* from the rounds, when the seat-frame may slide down freely to any desired point.

For attaching the leg *w* so as to be readily connected and disconnected, a rod, *x*, Fig. 2, is located behind the upper step *b*, and the leg has a cross-bar, *y*, equal in length to the distance between side bars, *a*, so as to enter snugly between them, to which bar-hooks *z* are attached, so that they engage rod *x* under it, as shown in Fig. 2, and other hooks, *z'*, are attached, so that when leg *w* is swung outward from the ladder, after hooking onto rod *x*, said hooks *z'* will hook over the upper edge of a step *b* and secure the leg, as shown in Fig. 1.

The leveling attachment, seat, and foot-rest attachment, and the leg *w* may all be readily detached when only a simple ladder is wanted, and thus the ladder is useful for various purposes.

I am aware that a metallic strip has been attached below the upper round of a ladder to permit of another ladder provided with recessed plates to be passed between it and the round of the ladder, so that the recessed plates will engage with the said strip and lock the ladders together, and I therefore do not claim such invention.

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

1. The combination, with the side bars, *a*, having shouldered lower ends, *c*, of the detachable leveling attachment, consisting of the parallel bars *d*, having blocks *f* between them, the

legs *e*, adjustably secured between the said bars, and the braces *g*, substantially as and for the purpose set forth.

2. The combination, with a ladder having  
5 the rod *x* located behind the upper step *b*, of the leg *w*, having the cross-bar *y*, of a length equal to the distance between the side bars of the ladder, and provided with hooks *z z'*, substantially as and for the purpose set forth.

3. The side bars, *m*, clip-bar *n*, pivoted seat

*k*, and foot-rest *l*, in combination with a ladder, and being secured adjustably thereon by hooks *o* of bar *n*, projections *u* of the seat, and extensions *p* of the foot-rest, substantially as described.

CHARLES BRIDGES.

Witnesses:

JOHN T. CARPENTER,  
VALENTINE LOPEZ.