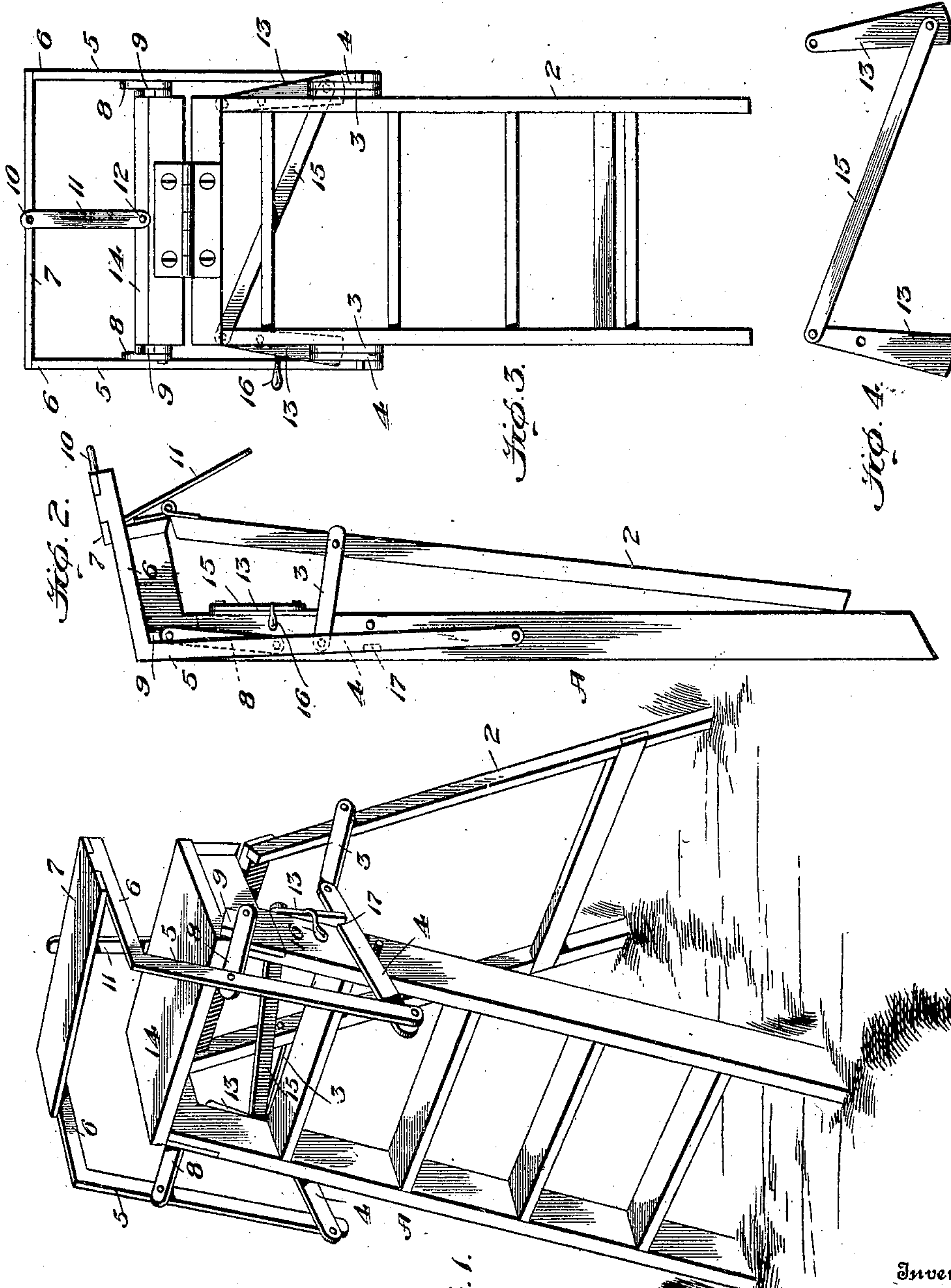


E. C. MEAD.
STEP LADDER.
APPLICATION FILED DEC. 31, 1907.

922,306.

Patented May 18, 1909.



Witnesses

M. H. Freeman

Fig. 1.

Inventor

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UNITED STATES PATENT OFFICE.

EDWARD C. MEAD, OF ELKHART, INDIANA.

STEP-LADDER.

No. 922,306.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed December 31, 1907. Serial No. 408,736.

To all whom it may concern:

Be it known that I, EDWARD C. MEAD, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Step-Ladders, of which the following is a specification.

My invention relates to an improvement in attachments for step ladders, the object being to provide attachments for supporting receptacles, packages, or the like, above the top of the ladder.

The invention relates to certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claims.

In the accompanying drawings Figure 1 is a perspective view showing the attachment in raised position; Fig. 2 is a view showing it in lowered position when the ladder is collapsed or folded; Fig. 3 is a rear view, and Fig. 4 is a detail.

A represents the step ladder having the usual pivoted prop section 2, and pivotally connected to the prop section 2 are arms 3, 3, and connected to the free ends of these arms are lever arms 4, 4. Supports or railings 5, 5 are pivotally connected to the free ends of the lever arms 4, extending upwardly and having arms 6, 6 extending horizontally therefrom and supporting a shelf 7 thereon, which extends over the top of the ladder. A pin or lug 18 projects from the stiles or body A of the ladder and acts as a fulcrum for the lever arms 4 whereby the railings are held in an upright position.

Connected to the supports or railings 5 are pivotal arms 8, 8, which are pivotally connected to the top of the step ladder, and over these arms are stops 9, 9, which are secured to the sides of the ladder to limit the upward movement of the pivotal arms.

The shelf 7 has a pin or other suitable means 10 thereon for the engagement of the supporting brace 11, which is pivotally connected to the top of the ladder, as at 12.

Dogs 13, 13 are pivotally connected to the front side of the ladder and just below the top step 14. These dogs are connected by means of a lever 15 and are actuated by means of a handle 16 formed on one of the dogs. These dogs are adapted when forced outward to enter notches or recesses 17 formed in the lever arms 4 whereby the shelf is held in an upright position and also prevents the prop

section 2 from closing up against the body of the ladder and holds it in an extended position. When the dogs are forced inward the prop section 2 can be closed against the body of the step ladder after the supporting brace 11 is released from the top of the step ladder, thereby permitting the shelf to rest upon the top step 14 of the ladder and the supports or railings to extend along the sides of the ladder.

It will be seen from the foregoing that I have provided a very simple attachment whereby a shelf can be connected to the step ladder and which can be used for various purposes, and when brought into closed position can be placed in a very compact compass. The railings or supports 5 also afford a means whereby the person standing on the ladder can grasp the same for support or as an aid in climbing the ladder.

It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth, but:—

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

1. A step ladder, comprising a body portion, a prop section connected thereto, railings, a shelf on the railings, arms connecting the railings and prop section, a brace connected to the shelf, and dogs adapted to engage the arms for supporting the shelf.

2. A step ladder, comprising a body, a prop section connected thereto, railings, a shelf thereon, arms pivotally connected to the body and railings, pivotally connected arms connected to the railings and prop standard, and means engaging said last named arms for holding the shelf in position.

3. A step ladder, comprising a body portion, a prop section connected thereto, railings, a shelf on the railings, arms pivotally connected to the railings and prop section, dogs adapted to engage the last named arms for supporting the shelf in position, and a lever connecting the dogs.

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

EDWARD C. MEAD.

Witnesses:

PERRY L. TURNER,
MERLE DOTY.