

(No Model.)

F. N. McKEAN.

WAGON JACK AND STEP LADDER COMBINED.

No. 328,701.

Patented Oct. 20, 1885.

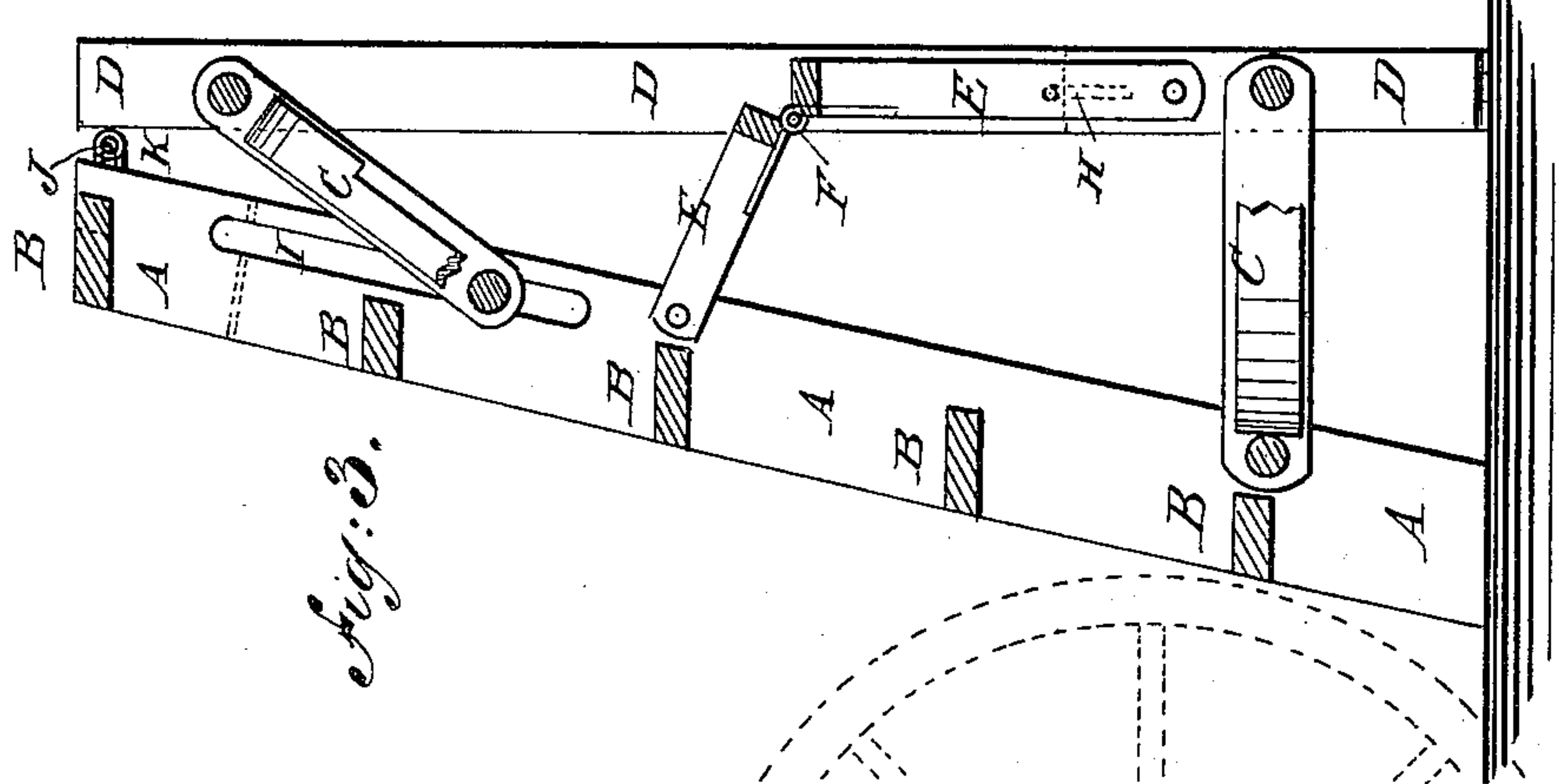


Fig. 3.

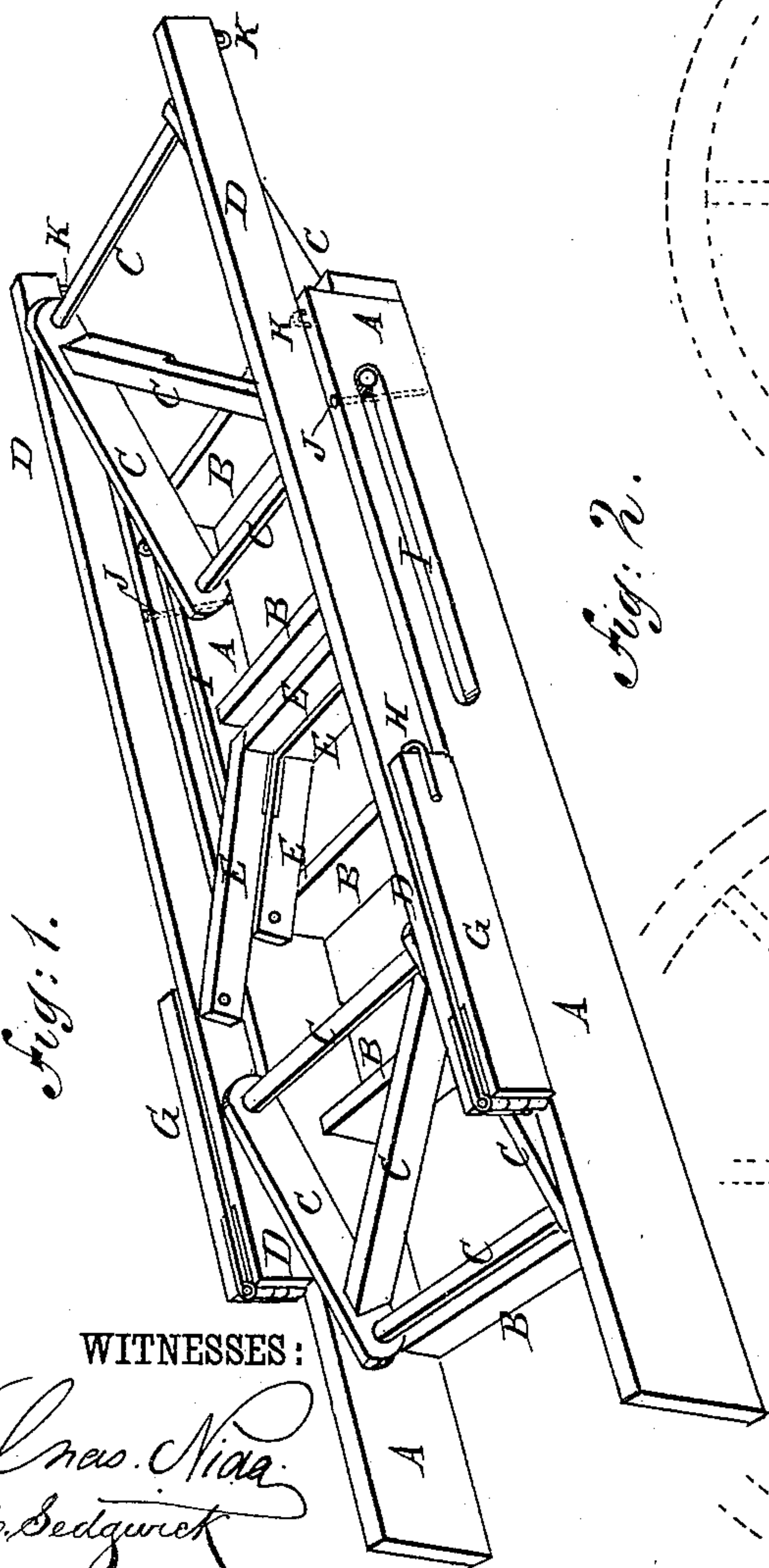
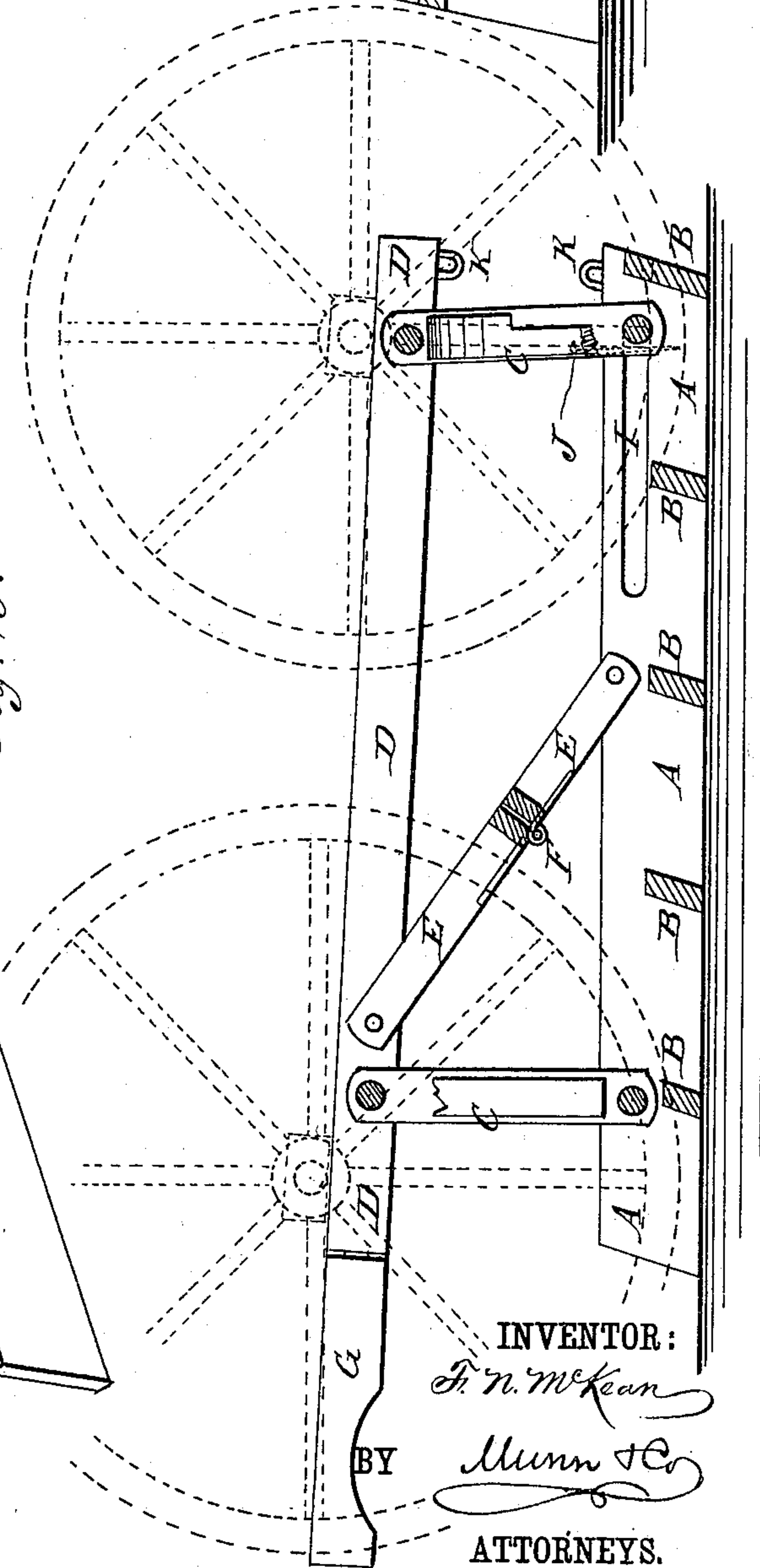


Fig. 1.

Fig. 2.



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WAGON-JACK AND STEP-LADDER COMBINED.

SPECIFICATION forming part of Letters Patent No. 328,701, dated October 20, 1885.

Application filed September 2, 1885. Serial No. 175,997. (No model.)

To all whom it may concern:

Be it known that I, FRANK N. McKEAN, of Long Branch, in the county of Monmouth and State of New Jersey, have invented certain
5 new and useful Improvements in a Combined Wagon-Jack and Step-Ladder, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying
10 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 one of my combined wagon-jacks and step-ladders, shown
15 as folded for storage or transportation. Fig. 2 is a sectional side elevation of the same, illustrating its use as a wagon-jack. Fig. 3 is a sectional side elevation of the same, shown arranged as a step-ladder.

20 The object of this invention is to provide combined wagon-jacks and step-ladders constructed in such a manner that they can be readily adjusted for either use, and will be convenient and reliable with either adjustment.
25

The invention consists in the construction and combination of the various parts of the combined wagon-jack and step-ladder, as will be hereinafter fully described and then
30 claimed.

A represents two bars, which are connected by parallel bars B of sufficient width to serve as steps, and which are slightly inclined laterally to give them a horizontal position when
35 the device is used as a step-ladder.

C are frames of unequal length, which are pivoted to the bars A at a little distance from their ends. The other ends of the frame C are pivoted to and between two bars, D, at a little
40 distance from their ends, so that the said bars D can be folded down upon the bars A for storage or transportation, as shown in Fig. 1, or can be raised above the said bars A when the device is to be used as a wagon-jack, as
45 shown in Fig. 2, the hinged frames C taking a nearly vertical position.

E are two frames, which are connected with each other by hinges F, so that they can fold together, as shown in Fig. 1, and will abut
50 against each other and serve as a rigid brace

when the device is arranged as a wagon jack, as shown in Fig. 2.

The outer end of one of the frames E is pivoted to the bars D at a little distance from the end of the longer frame C. The outer end of
55 the other frame E is pivoted to the middle parts of the bars A.

To the ends of the bars D are hinged or otherwise secured handles G, for convenience in operating the device when used as a wagon-jack, and which are adjusted against the outer
60 sides of the said bars D, and secured by spring-catches H or other suitable means when the device is folded and when it is adjusted for use as a step-ladder.
65

The pivots of the shorter frame C are placed in slots I in the bars A, and are secured in the outer ends of the said slots, when the device is folded and when it is used as a wagon-jack,
70 by pins J, inserted in holes in the said bars A and crossing the slots I near their outer ends.

To the adjacent edges of the ends of the bars A D, nearest the slots I, are attached staples or eye-plates K, to serve as hinges when the device is adjusted as a step-ladder, the pintles of
75 the said hinges being the pins J, which, with this adjustment, must be withdrawn from the bars A, so that the pivots of the shorter frame C can slide inward in the slots I, to allow the ends of the bars A D to be brought together,
80 as shown in Fig. 3.

When the device is to be used as a wagon-jack, the handles G are extended and the device is pushed in beneath both axles of the wagon and the bars D are drawn back by
85 means of the handles G, the pivoted frames C causing the said bars D to rise against and raise the said axles, lifting all the wheels from the ground at the same time, the said bars D being locked in a raised position by the hinged
90 frames E.

When the device is to be used as a step-ladder, the pins J are withdrawn from the bars A, the pivots of the shorter frame C are moved inward along the slots I, to bring the ends of
95 the bars A D into contact, and the said pins J are inserted in the eyes of the staples or eye-plates K, the hinged frames E taking a partly folded position, and the longer frame C serving as a connecting-brace, as shown in Fig. 3.
100

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

1. In a combined wagon-jack and step-ladder, the combination of the two bars A, having inclined connecting-bars B and longitudinal slots I, the two bars D, the frames C, having unequal lengths and pivoted to said bars A D, and the frames E E, hinged to each other and pivoted to the said bars A D, substantially as herein shown and described, whereby the mechanism can be used as a wagon-jack or a step-ladder, as set forth.

2. In a combined wagon-jack and step-ladder, the combination, with the ends of the bars

A D, of the eyes K and the detachable pins J, substantially as herein shown and described, whereby the ends of the said bars can be readily connected, as set forth.

3. In a combined wagon-jack and step-ladder, the combination, with the bars D, of the extensible handles G, substantially as herein shown and described, whereby the said handles can be projected when the mechanism is to be used as a wagon-jack, as set forth.

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Witnesses:

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