

No. 765,288.

PATENTED JULY 19, 1904.

W. C. KING.
STEP LADDER.

APPLICATION FILED DEC. 12, 1902.

NO MODEL.

Fig. 1.

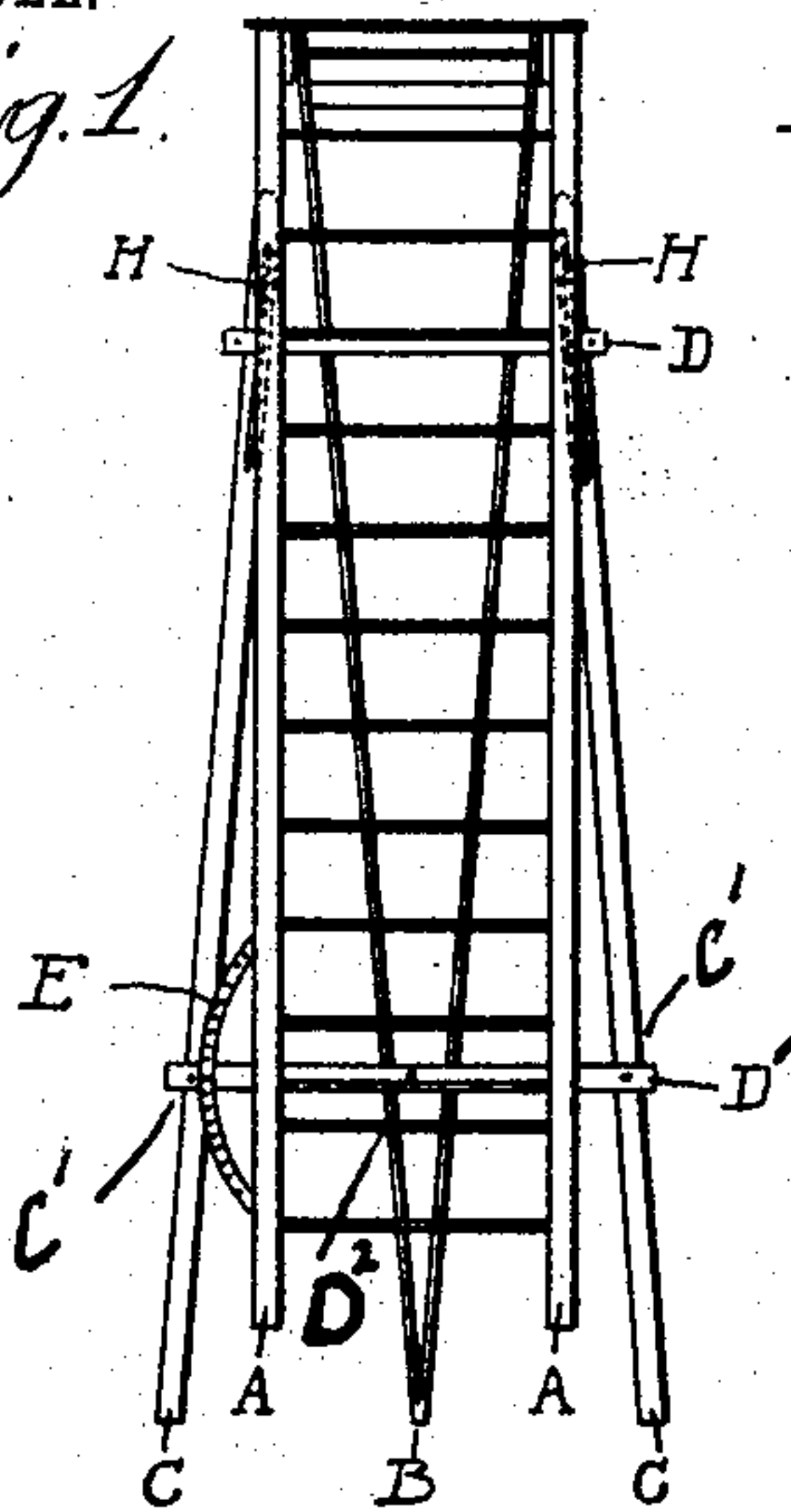


Fig. 2.

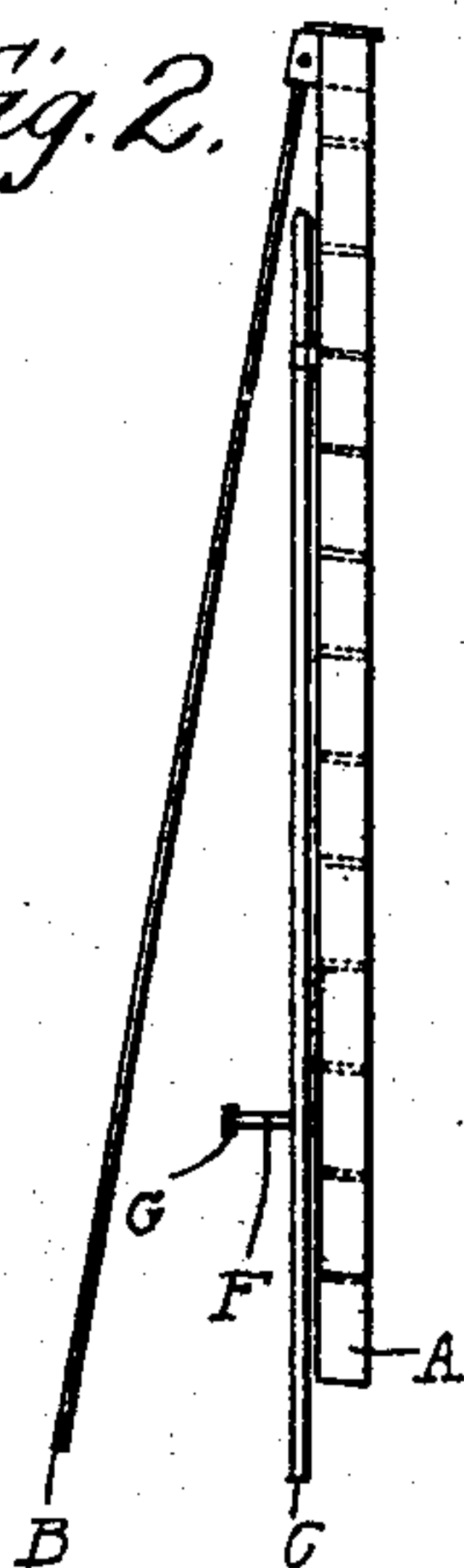


Fig. 3.

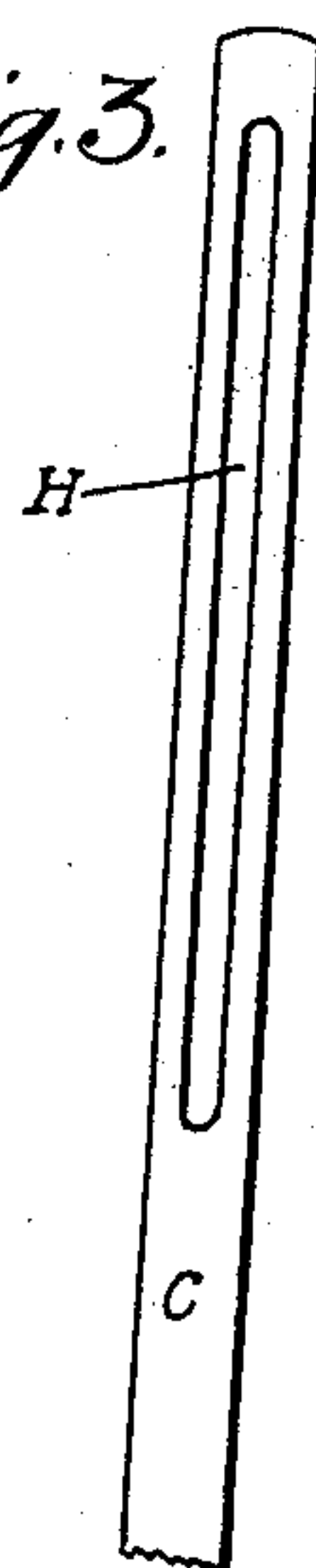


Fig. 5.

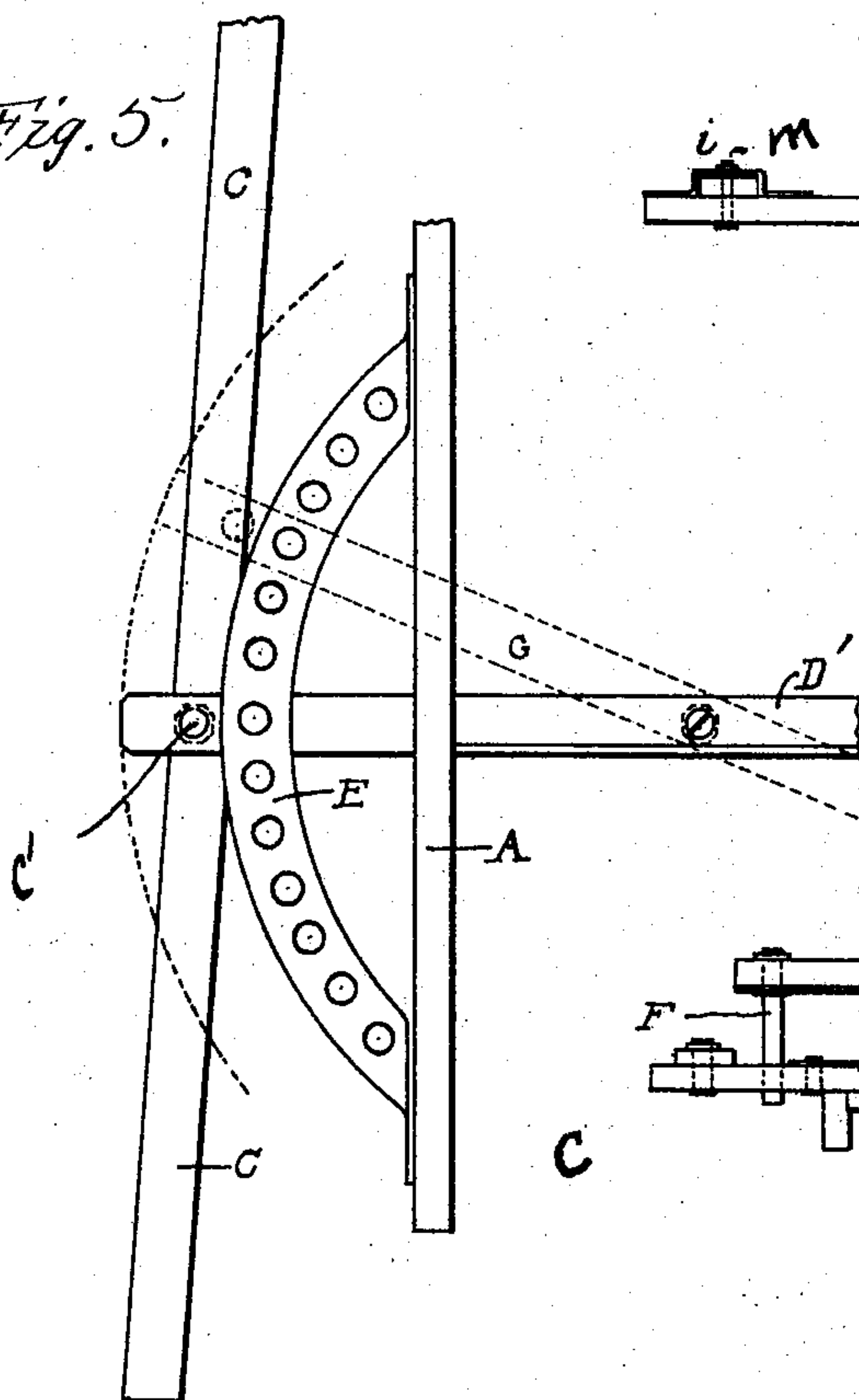


Fig. 4.

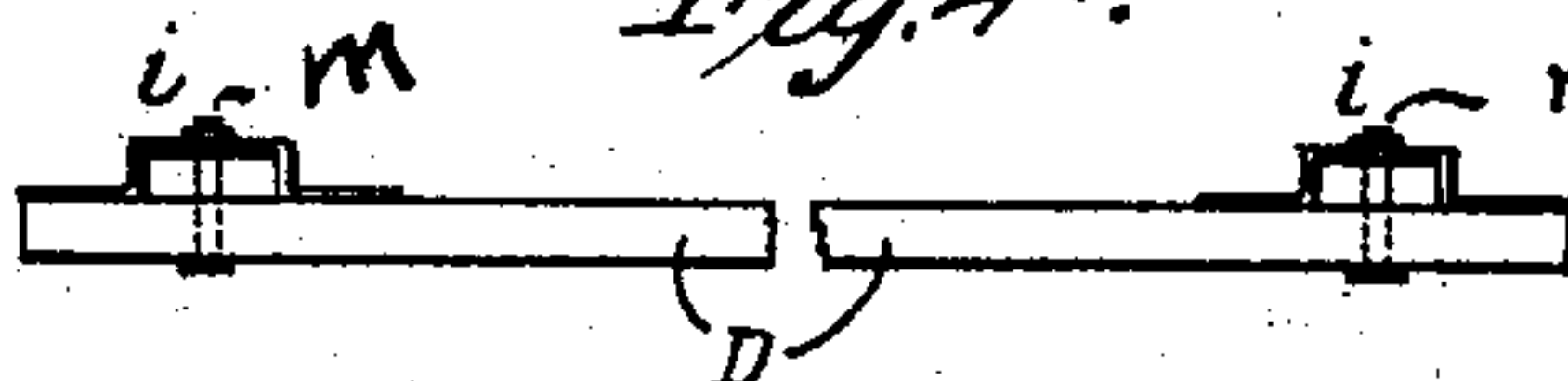
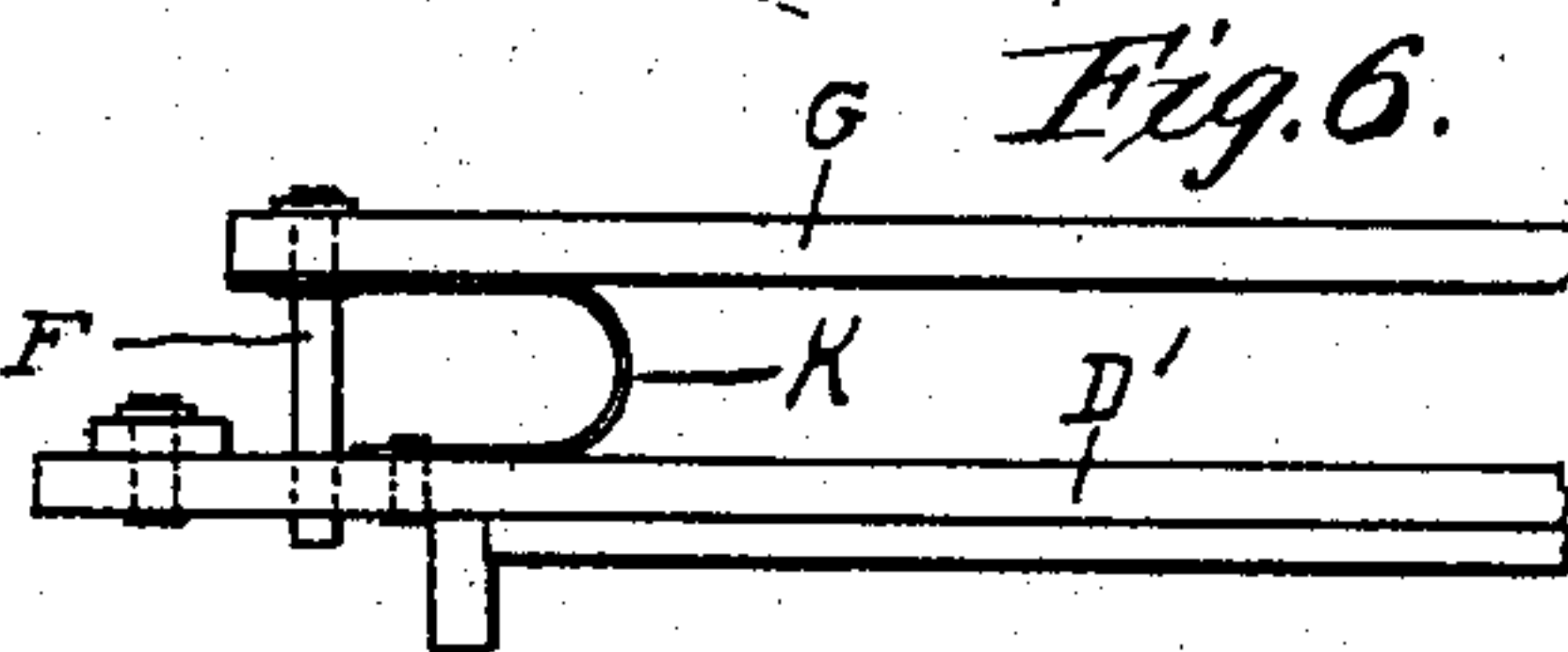


Fig. 6.



WITNESSES:

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WILLIAM CICERO KING, OF WEIMAR, CALIFORNIA.

STEP-LADDER.

SPECIFICATION forming part of Letters Patent No. 765,288, dated July 19, 1904.

Application filed December 12, 1902. Serial No. 135,022. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CICERO KING, a citizen of the United States, residing at Weimar, in the county of Placer and State of California, have invented an Improved Step-Ladder, of which the following is a specification.

My invention consists in the peculiar arrangement of the supporting-legs and attachments of a ladder and of the ladder itself and attachments, which will be more fully set forth hereinafter and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a front elevation of a ladder embodying my improvements. Fig. 2 is a side elevation of the same. Fig. 3 is a detail view of the upper end of one of the legs C. Fig. 4 is a detail top plan view. Fig. 5 is a detail elevation. Fig. 6 is a detail top plan view of the construction shown in Fig. 5.

To the upper end of the ladder A at the rear side thereof are hinged legs B, which are longer than the ladder and extend below its lower end, as shown, and which converge downwardly and have their lower ends secured together. A pair of legs C are placed at the rear side of the ladder, and their upper portions, which have longitudinal slots H, extend through guide-straps or keepers *i* on the rear side of a cross-bar D, which is secured to the rear side of the ladder. Bolts *m*, which pivot the said legs to the said cross-bar and keepers, pass through the slots H, which enable said legs to be moved longitudinally.

A cross-bar D' is pivotally connected, as at D², to the ladder on the rear side and at a suitable distance from the lower end thereof. The legs C are pivotally connected, as at C', to the end portions of said cross-bar. Hence by turning the latter on its pivot D² the legs C may be adjusted to support the ladder properly on uneven or sloping ground.

A segment-plate E is attached to and projects laterally from one side of the ladder and

has a plurality of adjusting-openings suitably spaced apart, which are concentric with the pivot D² of the cross-bar D'. A lever G, connected at one end to the cross-bar D' by a U-shaped spring K, which also forms the fulcrum for the lever, is provided with a lock-pin F, which by engagement with an appropriate opening in the segment-plate serves to lock the legs C when adjusted. The spring serves to normally keep the lock-pin in engagement with an opening in the segment-plate, as shown in Fig. 6.

The ladder is entirely supported by the legs B C, which extend below its lower end, and the said legs being adjustable, as hereinbefore described, the ladder may be readily put up and kept in the required position on even or uneven ground or base-surfaces, as will be understood.

Having thus described my invention, I claim—

1. A ladder having a pair of longitudinally-movable supporting-legs connected thereto, a segment-plate projecting from one side of the ladder, a cross-bar pivoted to the ladder and connected to the movable legs to simultaneously adjust them in opposite directions, and means to lock the cross-bar to the segment-plate and hence lock the movable legs when adjusted.

2. A ladder having a pair of longitudinally-movable supporting-legs connected thereto, a segment-plate projecting from one side of the ladder, a cross-bar pivoted to the ladder and connected to the movable legs to simultaneously adjust them in opposite directions, a lever connected to the cross-bar, and a lock-pin carried and operated by the lever and co-acting with the segment-plate to lock the cross-bar and hence the movable legs when adjusted.

3. A ladder having a pair of longitudinally-movable supporting-legs connected thereto, a segment-plate projecting from one side of the ladder, a cross-bar pivoted to the ladder and connected to the movable legs to simultane-

ously adjust them in opposite directions, a lever, a spring connecting the lever to the cross-bar and forming the fulcrum of the lever, and a lock-pin carried and operated by
5 the lever and coacting with the segment-plate to lock the cross-bar and hence the movable legs, when adjusted.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM CICERO KING.

Witnesses:

FRANK D. KUENZLY,
MARTIN PARTRIDGE.