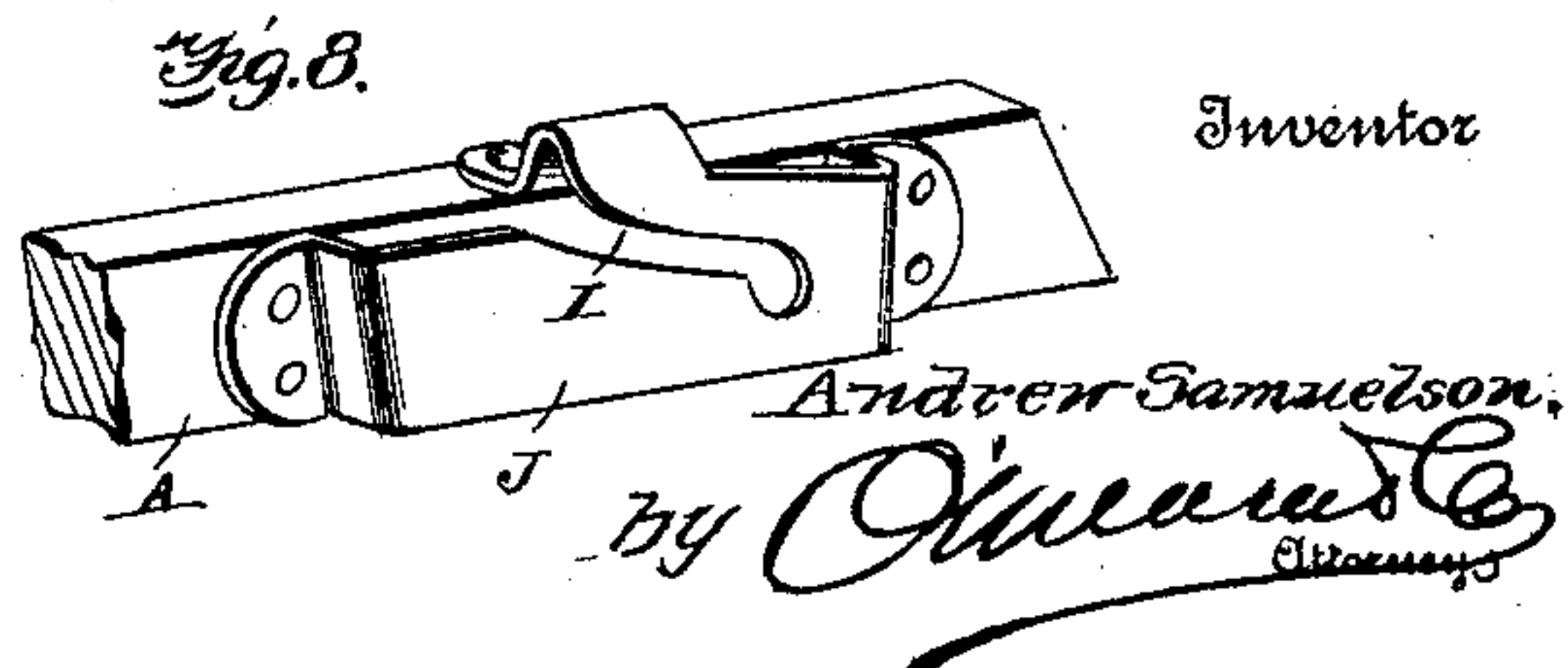
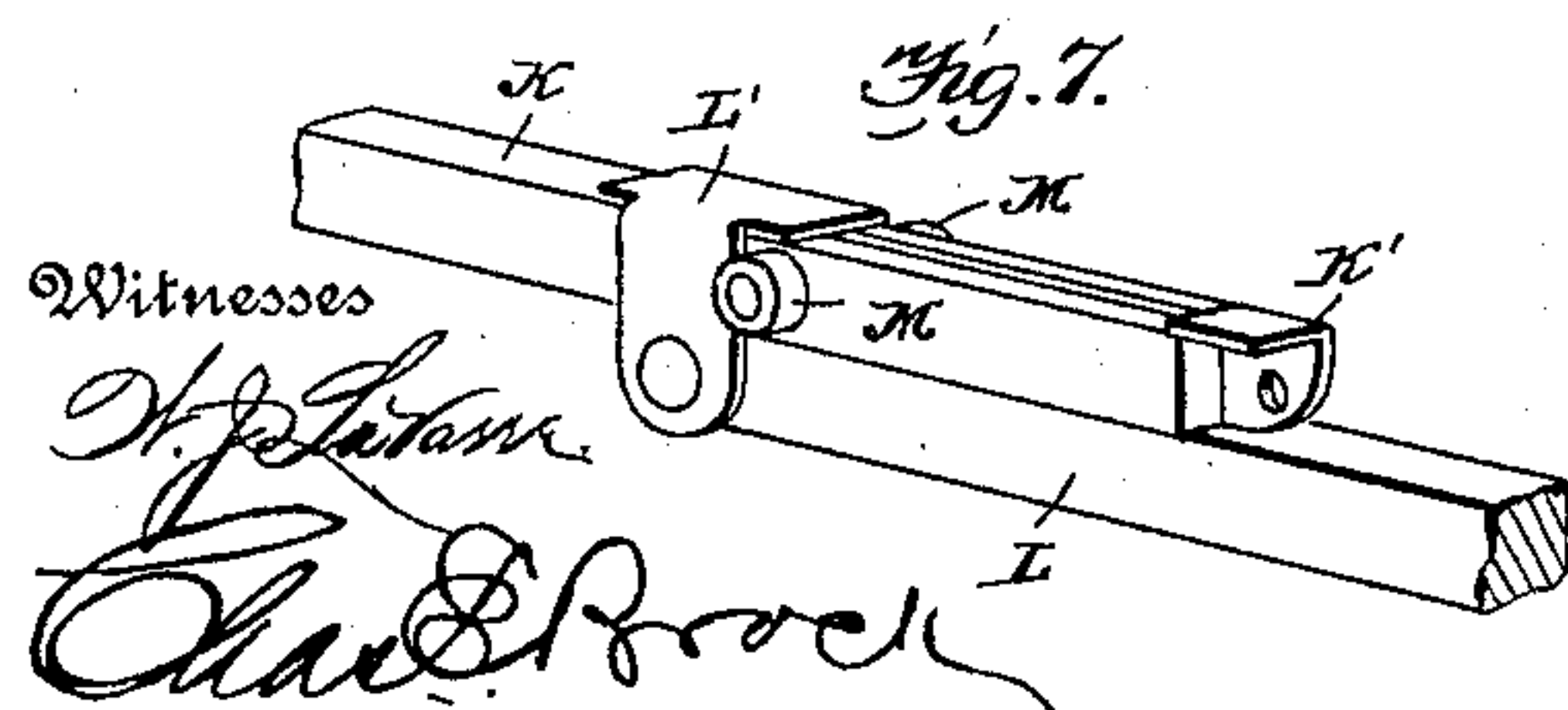
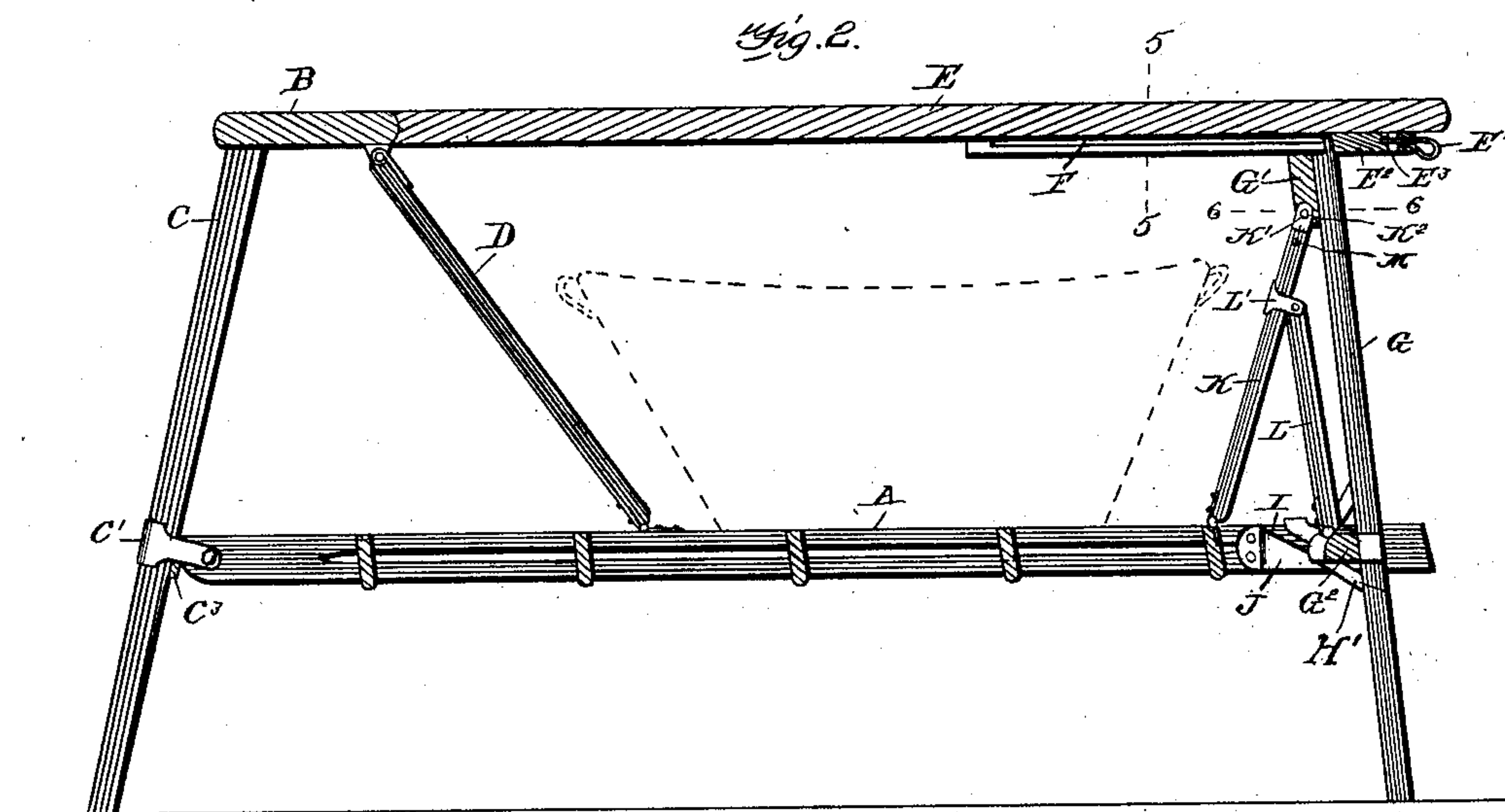
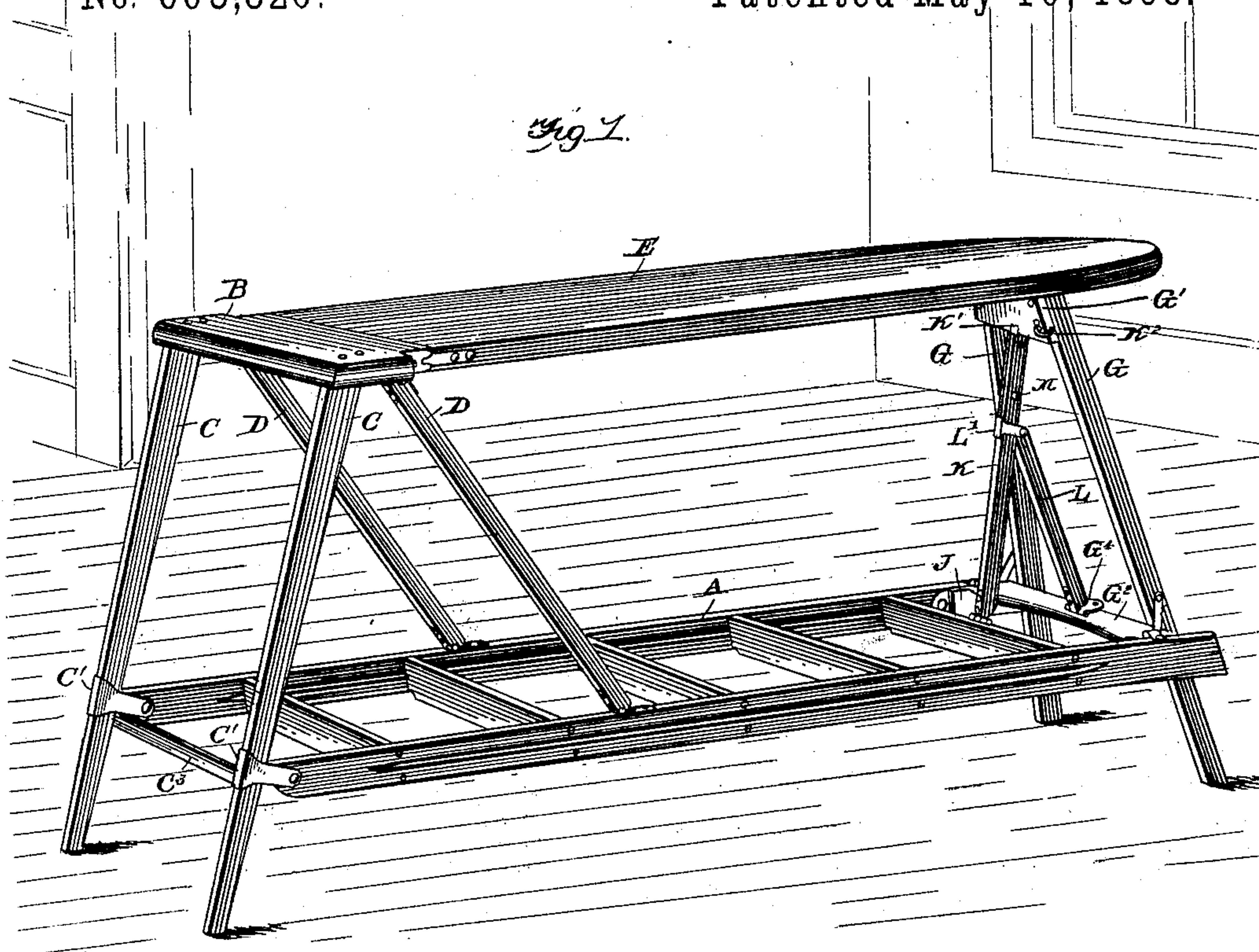


2 Sheets—Sheet 1.

No. 603,820.

Patented May 10, 1898.



(No Model.)

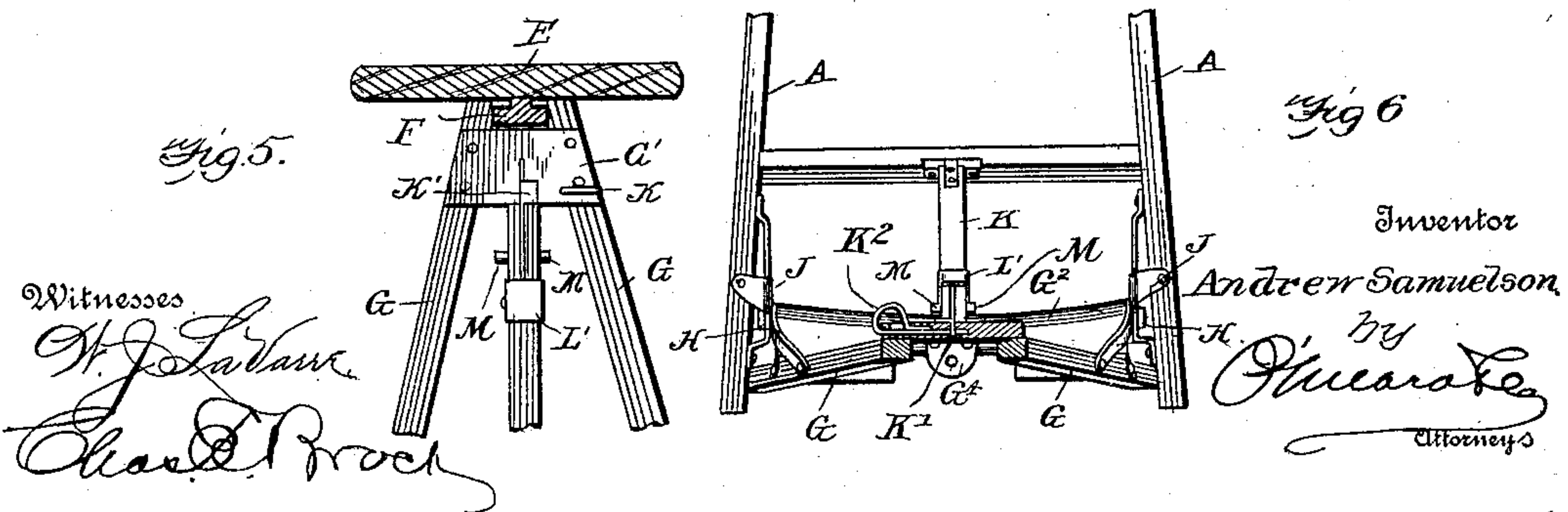
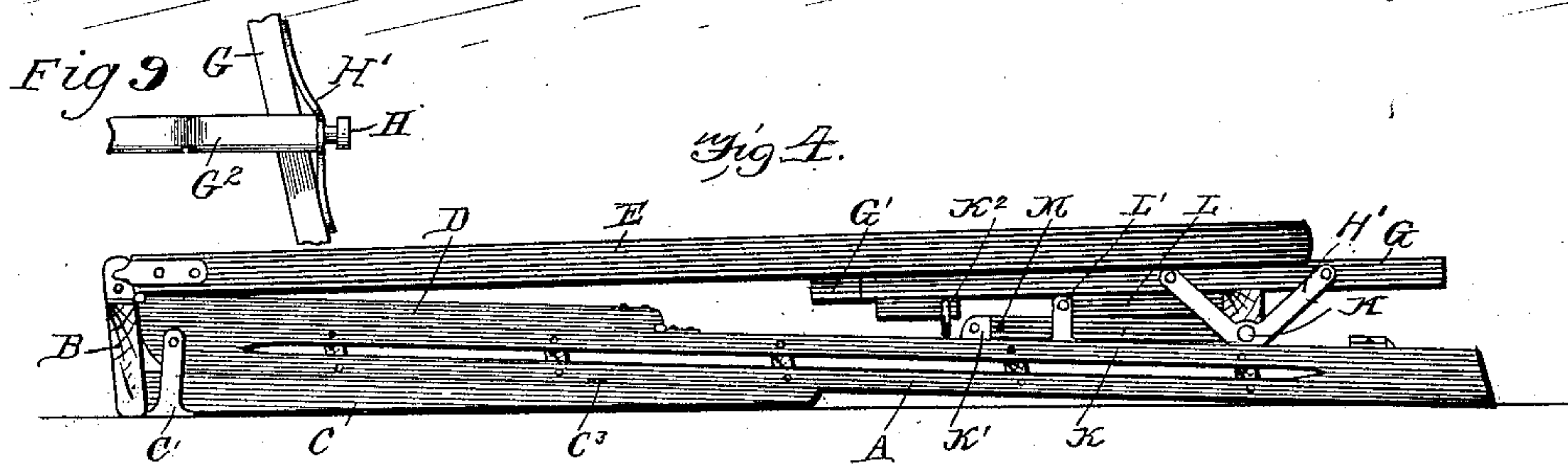
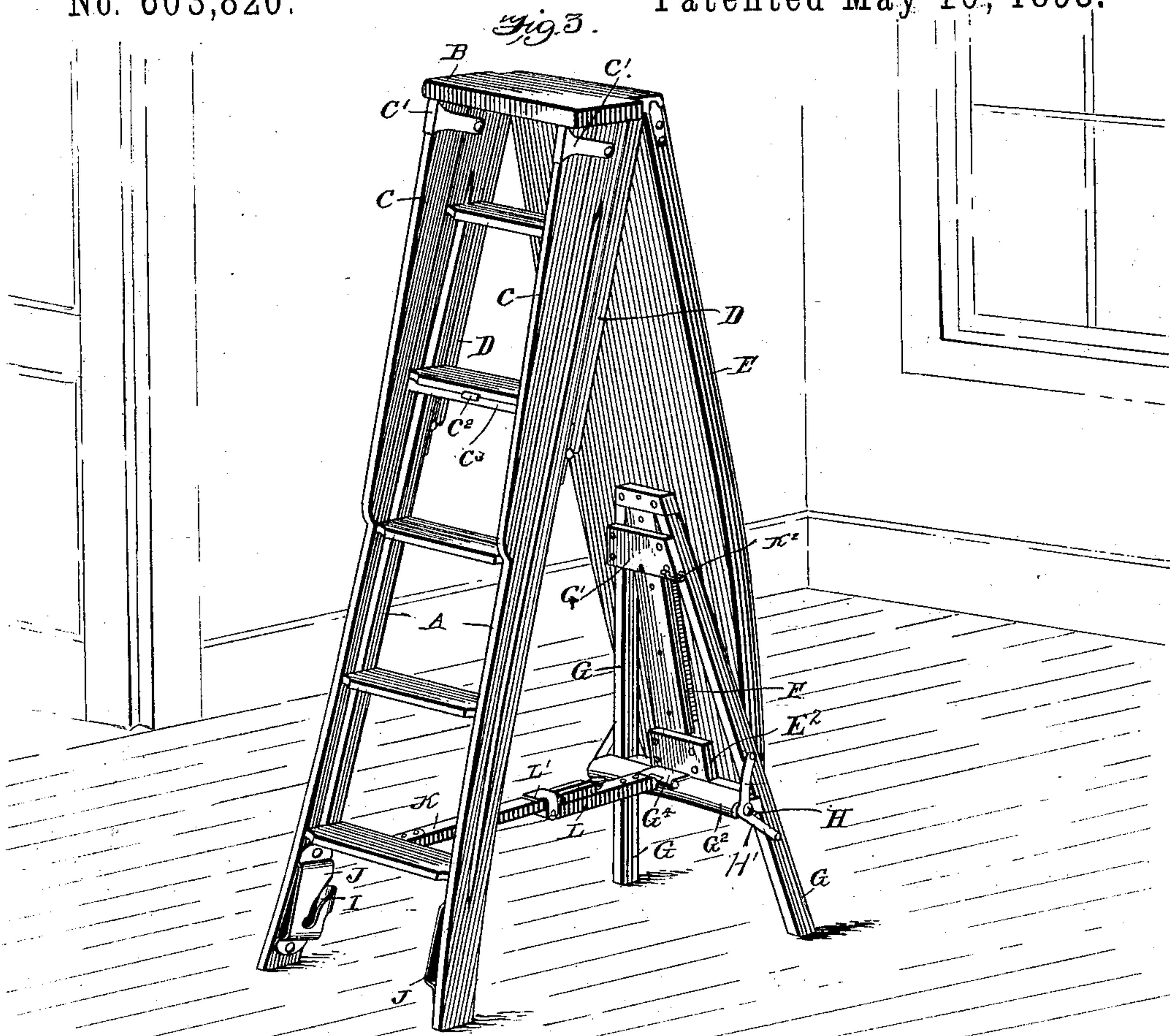
2 Sheets—Sheet 2.

A. SAMUELSON.

COMBINATION STEP LADDER AND IRONING BOARD.

No. 603,820.

Patented May 10, 1898.



UNITED STATES PATENT OFFICE.

ANDREW SAMUELSON, OF CHICAGO, ILLINOIS.

COMBINATION STEP-LADDER AND IRONING-BOARD.

SPECIFICATION forming part of Letters Patent No. 603,820, dated May 10, 1898.

Application filed May 8, 1897. Serial No. 635,733. (No model.)

To all whom it may concern:

Be it known that I, ANDREW SAMUELSON, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Combination Step-Ladder and Ironing Board, of which the following is a specification.

My invention relates to a combined step-ladder and ironing-board; and the object of my invention is to provide a device of this nature which can be easily converted from one to the other as occasion may require.

My invention consists of certain details of novel construction that will be hereinafter fully described, and specifically pointed out in the claims.

In order that my invention may be more fully understood, I will proceed to describe the same with reference to the accompanying drawings, in which—

Figure 1 is a perspective view showing my device set up for use as an ironing-board. Fig. 2 is a longitudinal section of the same. Fig. 3 is a perspective view showing my device arranged for use as a step-ladder. Fig. 4 is a side elevation of the device in its complete folded position. Fig. 5 is a cross-section on line 5 5 of Fig. 2. Fig. 6 is a cross-section on line 6 6 of Fig. 2. Fig. 7 is a detail perspective view of the brace-rods and their connecting mechanism. Fig. 8 is a detail perspective view of the slotted guides provided on the lower inside ends of the ladder-frame. Fig. 9 is a detail view of the end of the cross-rod G^2 , showing the projection which engages the slotted guide-plates of the bottom of the step-ladder when the device is set up for use as an ironing-board.

Referring to the drawings, and more particularly to Figs. 1 and 2, in which my device is shown in a position for use as an ironing-board, A represents a step-ladder of ordinary construction; B, the top thereof, which is carried by suitable supporting-legs C, held in the hinged guides C' , which are secured to the upper ends of the side pieces of the step-ladder, as more clearly shown in Fig. 3. These supporting-legs, when the device is used as a step-ladder, as shown in Fig. 3, are substantially parallel with the side pieces of the step-ladder, and when the device is to be used as an ironing-table they are swung from the side

pieces and pushed through the guides C' to the position shown in Fig. 1. The cross-bar C^3 supports the upper end of the ladder when the device is used as an ironing-table.

D represents brace-rods hinged, respectively, at one end to the side pieces of the step-ladder and at their other ends to the top piece B, and these rods are for the purpose of holding the top B in a horizontal position. These rods occupy the position shown in Fig. 3 when the device is used as a step-ladder.

E represents the ironing-board, which is hinged at one end to the top piece B of the step-ladder. It is provided at its free end and on the under side thereof with a bolt E' , working in the block E^2 , provided with a transverse slot E^3 . The free end of the ironing-board is held in a horizontal position by means of the supporting-legs G, which are joined at their upper ends by means of the cross-piece G' and at their lower ends by means of the cross-piece G^2 . They are further provided at the upper ends with suitable projections which work in the longitudinal grooves of the projecting strip F upon the under side of the board E when the device is used as a step-ladder. When the device is used as an ironing board or table, the upper ends of the supports G rest in the space between the end of the projecting strip F and the block E^2 , so that the ironing-board E can be easily raised at its free end to allow of the clothes being placed on or removed therefrom.

H represents projections extending out from the ends of the lower cross-piece G^2 , which are adapted to engage the slots I of the guide-plates J, secured to the side pieces of the step-ladder. Surrounding the projections H are the brackets H' , provided with arms by which they are secured to the supporting-legs G, substantially as shown. This arrangement is designed to hold the lower end of the supports G in position, and they are so located as to hold the ladder in a horizontal position, so that the clothes-basket (shown in dotted lines, Fig. 2) can be supported thereon. These guides are also for the purpose of allowing the supports G to fall over onto the step-ladder A when the device is to be set up as a step-ladder and then be removed therefrom, as will be hereinafter described.

K represents a brace-rod hinged at one end

to one of the steps of the step-ladder, and it is provided at its other end with a plate K', having a suitable opening. Said plate K' fits in a slot formed for it in the top cross-piece G'. When the plate is in the position shown in Figs. 1 and 2, it is held thereon by means of the bolt K². This arrangement is for the purpose of holding in position the upper ends of the supporting-legs.

When the device is to be used as a step-ladder, the bolt K² is disengaged from the plate K' and the brace-rod K turned on its hinge to rest on the step-ladder. The projections at the upper ends of the supporting-legs G are made to engage with the grooves in the longitudinal projecting strip F beneath the ironing-board and the board then dropped onto the end of the step-ladder. This is permitted by reason of the projections H turning in the slotted guides J. When the end of the ironing-board is dropped onto the ladder, the bolt E' is made to engage with an apertured plate G⁴, carried by the cross-pieces G², so that the lower ends of the supporting-legs G will be firmly fastened to the ironing-board, it being understood that the upper ends are held by means of the projections fitted in the slotted projecting strip F. The supporting-legs C are then drawn through the hinged guides C', so that the top is moved to the position shown in Fig. 3. The free ends of the supporting-legs C are held by means of the catch C², carried by one of the steps of the ladder, engaging the cross-piece C³ of the supporting-legs C. The device is then turned on end, and the ironing-board E, with its supporting-legs G, serves as the rear support of the step-ladder, as clearly shown in Fig. 3.

The rod K, which is hinged at one end to one of the steps of the step-ladder, as shown in Figs. 1 and 2, has a sliding connection at its free end with a brace-rod L, which is hinged at one end to the cross-piece G², as shown. This connection is effected by means of the loop L', hinged to the end of the brace L, which embraces the rod K. The rod K is held from being withdrawn from the loop L' by means of the rollers M, extending out from the sides of the said rod K.

When the device is to be set up again for use as an ironing-table, the brace-rods K and L are raised upwardly, which is permitted by means of their hinges and the hinged loop L', so that the end of the ironing-board will rest on the step-ladder. The bolt E' is then disengaged from the plate G⁴ and the projections H of the supports G slid into the slots of the guides J and the supports turned in a vertical direction, so as to throw the end of the ironing-board upward. The hinged top B is then turned to assume a horizontal position, as shown in Fig. 1, and the brace-rod K turned up again to engage the cross-piece G', as clearly shown in Fig. 1.

From the above it will be seen that I have produced a very simple combination device

which can be easily converted, when desired, into an ironing-table or into a step-ladder.

In Figs. 7 and 8 are plainly shown the connectional mechanisms by which the legs G and the brace-rod K are operated, as well as the action of the sliding bar L.

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

1. In a device of substantially the character described, the combination of the step-ladder, the hinged top thereof having the supporting-legs secured thereto, hinged guides secured to the side pieces of the ladder through which the supporting-legs pass, the supporting-legs for the free end of the ironing-board, and a catch carried by one of the ladder-steps and adapted to engage the cross-bar of the supporting-legs of the hinged top when the device is used for a ladder, substantially as shown and described.

2. In a device of substantially the character specified, the combination of the step-ladder having the hinged top, the supports therefor, an ironing-board hinged to said top, the hinged supporting-legs for the free end of the ironing-board, suitable slotted guides secured to the side pieces of the step-ladder, and projections carried by said supporting-legs adapted to engage in the slots of said guides, substantially as shown and described.

3. In a device of substantially the character specified, the combination of the step-ladder having the hinged top, the supporting-legs therefor, an ironing-board hinged to said top, the supporting-legs for the free end of said board provided with suitable projections near their lower ends, slotted guides carried by the side pieces of the step-ladder in which said projections fit, a brace-rod hinged at one end to the step-ladder and having its other end engaging the supporting-legs, and a bolt carried by the said legs for engaging said end, substantially as shown and described.

4. In a device of substantially the character specified, the combination of the step-ladder having the hinged top, the supporting-legs therefor, brace-rods hinged at one end to the side pieces of the step-ladder, and at their other ends to the hinged top, an ironing-board hinged to said top and supporting-legs for the free end of the ironing-board, substantially as shown and described.

5. In a device of substantially the character described, the combination of the step-ladder having a hinged top, an ironing-board hinged to said top and having at one end a longitudinally-grooved projecting strip, and a bolt, supporting-legs for the free end of said ironing-board secured by the bolt when the parts are folded and the device used as a step-ladder and projections at their upper ends which slide in the grooves of said strip, a brace-rod hinged to the cross-piece of said legs, a brace-rod hinged to one of the steps of the step-ladder, said rods having a sliding and hinged

connection with each other at their free ends, substantially as shown and described.

6. In a device of substantially the character described, the combination with a step-ladder, having a hinged top, of an ironing-board hinged thereto, suitable supports for the free end of said board for holding it in horizontal position, means for locking the supports to the board when the device is used as a step-

ladder, and the sliding brace-rods pivotally connected to the ladder and to the supports, substantially as described and for the purpose stated.

ANDREW SAMUELSON.

Witnesses:

ANDREW HOLM,
G. E. NEWBERG.