

(No Model.)

J. P. L. NELSON.
DESK.

No. 589,018.

Patented Aug. 31, 1897.

Fig. 1.

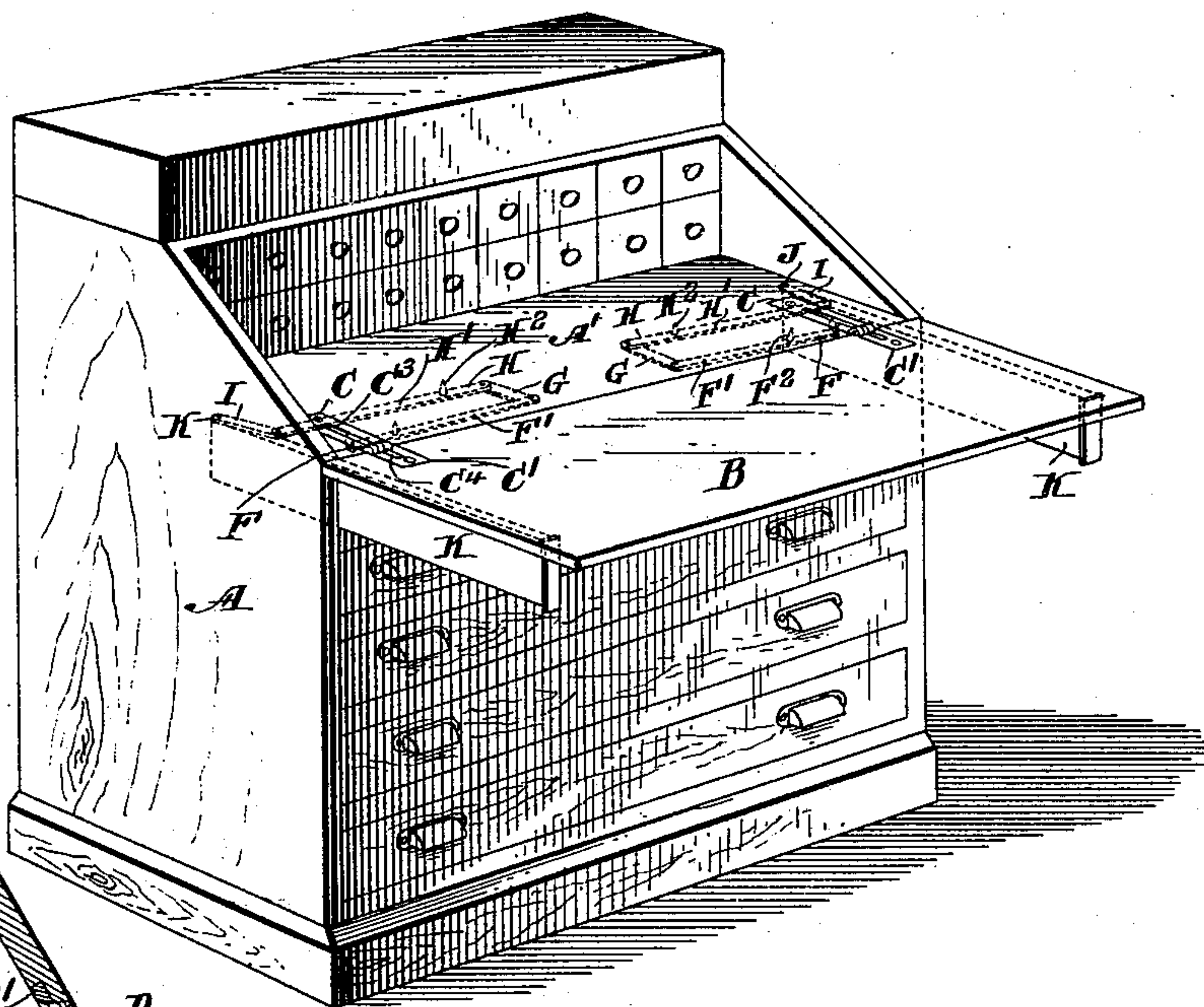


Fig. 3.

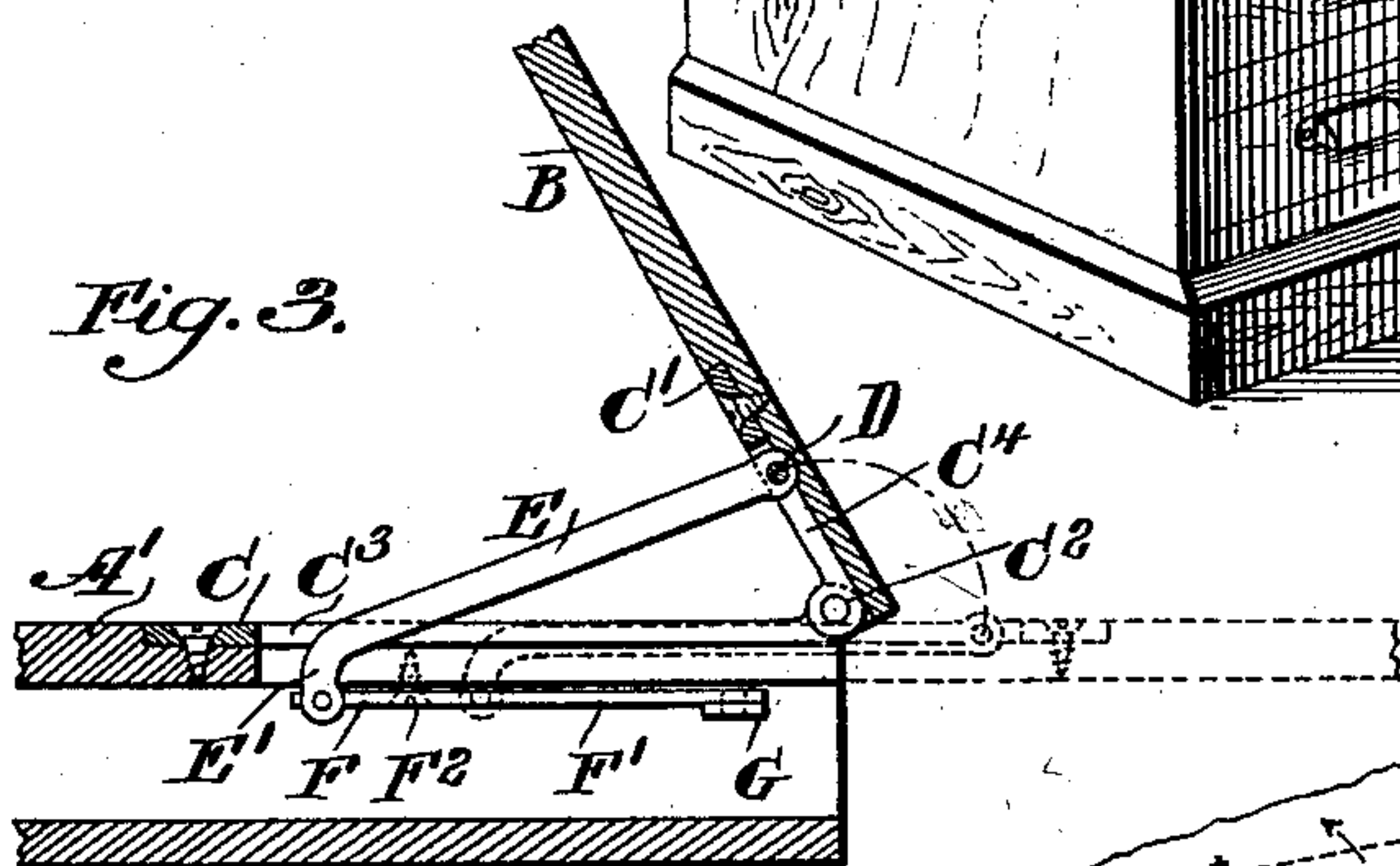


Fig. 2.

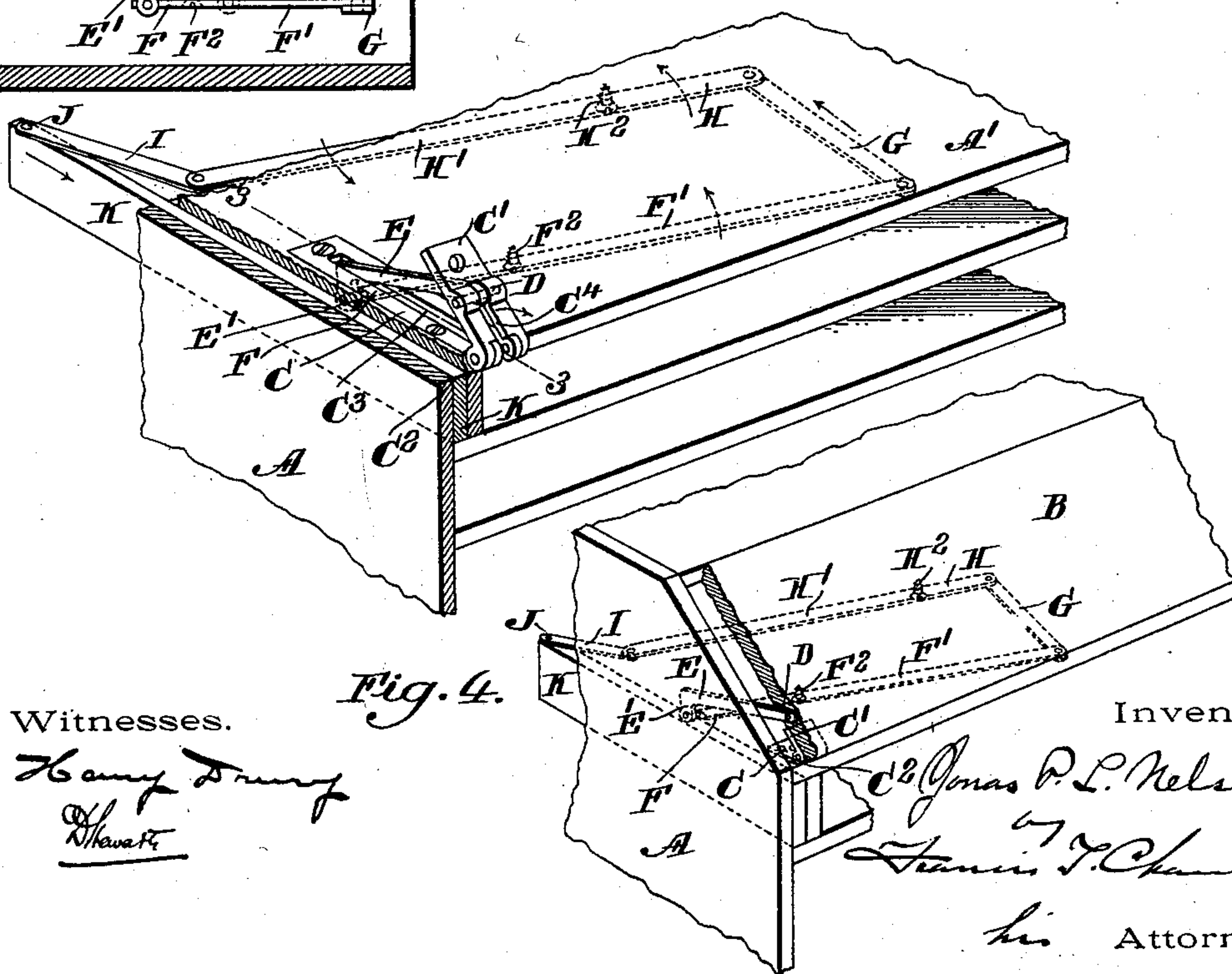


Fig. 4.

Witnesses.

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DESK.

SPECIFICATION forming part of Letters Patent No. 589,018, dated August 31, 1897.

Application filed September 29, 1896. Serial No. 607,292. (No model.)

To all whom it may concern:

Be it known that I, JONAS P. L. NELSON, a subject of the King of Sweden and Norway, residing in Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a certain new and useful Improvement in Desks, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part of the specification.

My invention relates to the construction of desks having hinged lids and extensible lid-supports, and has for its object to provide a new mechanism whereby the lid-supports are automatically extended and retracted by the opening and closing of the lid, the mechanism for accomplishing this result being of a simple and at the same time powerful character.

The nature of my improvements will be best understood as described in connection with the drawings, in which they are illustrated, and in which—

Figure 1 is a perspective view of a desk provided with my improvement, the lid being shown open and the lid-rests extending outward. Fig. 2 is a perspective view of a portion of the desk and lid-rest-actuating mechanism, the position occupied being that corresponding to a closed lid. Fig. 3 is a side elevation taken on the section-line 3 3 of Fig. 2, and Fig. 4 is a perspective view showing a slight modification of the invention.

A indicates the desk, A' being the "writing-table" of the desk, so to speak.

B is the hinged lid, C and C' indicating the wings of the hinges, by which the lid is secured to the front edge of the table.

K K indicate the lid-rests, which are of usual character, being retractable into spaces left in the desk for that purpose and extensible to form supports for the lid.

F and F' indicate two arms of a lever pivoted to the desk at F². H and H' indicate the arms of another lever also pivoted to the desk at H². The adjacent ends of these levers which are farthest removed from the lid-rests are united by a rod G, and the short arm F of the lever F F' is pivotally connected with a rod E, which in turn is pivotally connected with the lid at some distance above the pivot of the lid-hinge. In my preferred construc-

tion I connect the rod E with the hinge, as shown in Figs. 1, 2, and 3; but obviously it may be connected directly with the wood of the lid B, as shown in Fig. 4. The long arm of the lever H H' is connected by a rod I with the lid-rest K.

It will readily be seen that each movement of the lid upon its hinges is through the lever system described transmitted directly to the rest K, causing the extension of the rest when the lid is opened and its retraction when the lid is closed, and it will also be noticed that the mechanism for accomplishing this result is exceedingly simple while at the same time powerful and efficient.

Preferably the end of rod E, which is connected with the lever F F', is curved downward, as shown at E', so that when the lid is fully opened the rod E will lie entirely beneath its top surface. Preferably, also, I form the hinges with slots C³ and C⁴ in its two wings and connect the rod E with a pivot-pin D to the wing C' of the hinge, the rod lying, as shown in Figs. 1, 2, and 3, in the slots of the hinge.

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

1. In a desk having a hinged lid and extensible lid-rests as specified, the combination with levers F F' and H H' pivoted to the desk, a rod G connecting adjacent ends of said levers, a rod E pivotally connected to the lid and to lever F F' and a rod I pivotally connected to lever H H' and to an extensible lid-rest all substantially as specified and so that the lid-rest will be drawn out by the opening of the lid and retracted by the closing thereof.

2. In a desk having a lid and extensible lid-rests, the combination of lid-hinges C C' having slots C³ C⁴ with levers F F' and H H' pivoted to the desk and connected by rod G, a rod E pivoted to the wing C' of the hinge and to lever F F' said rod lying and moving in slots C³ C⁴ and a rod I pivoted to lever H H' and to a lid-rest substantially as and for the purpose specified.

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Witnesses:

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