(Model.)

H. J. LOCKE.

TABLE LEAF SUPPORT.

No. 245,184. Patented Aug. 2, 1881.

Fig: 1

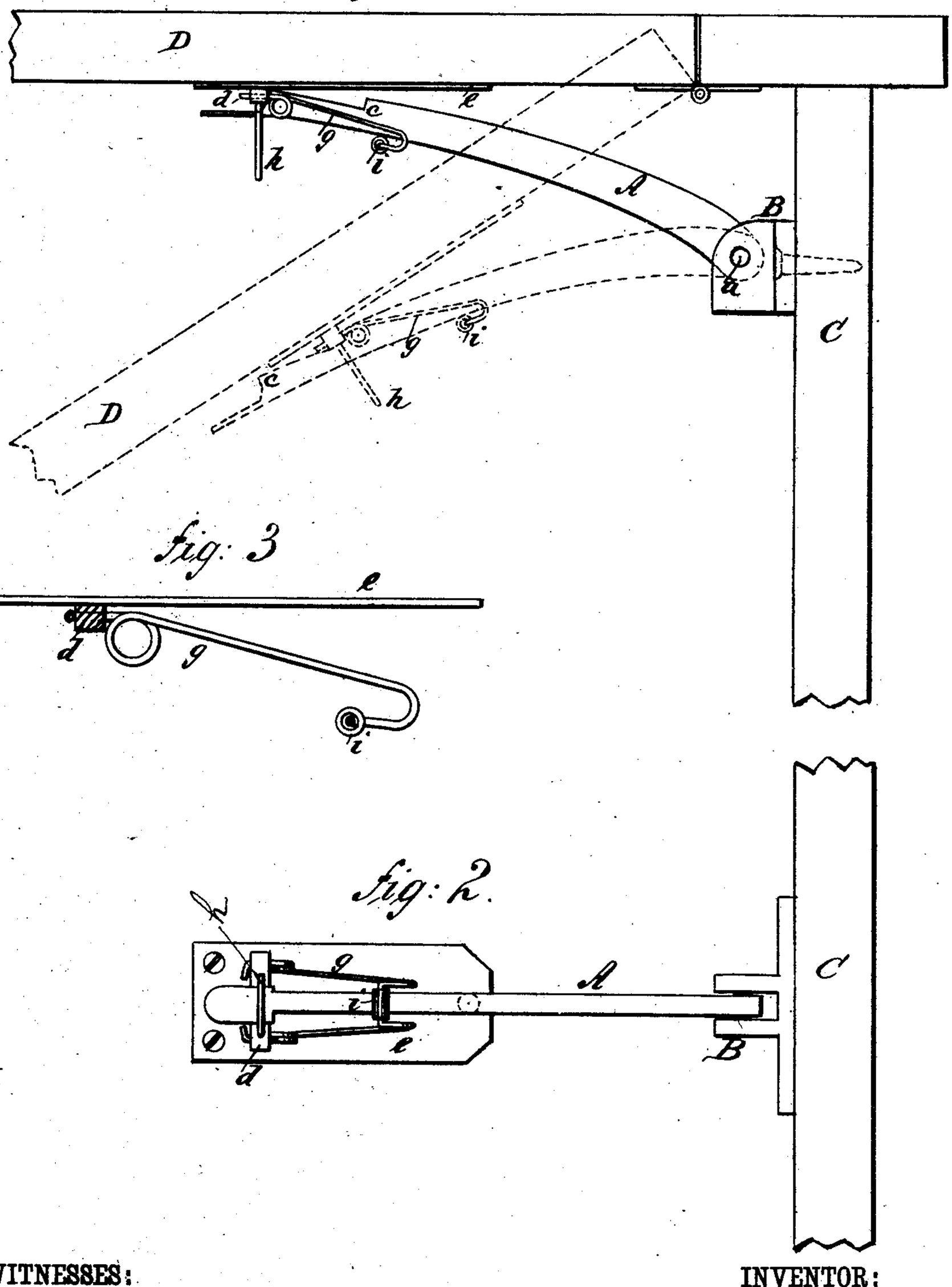
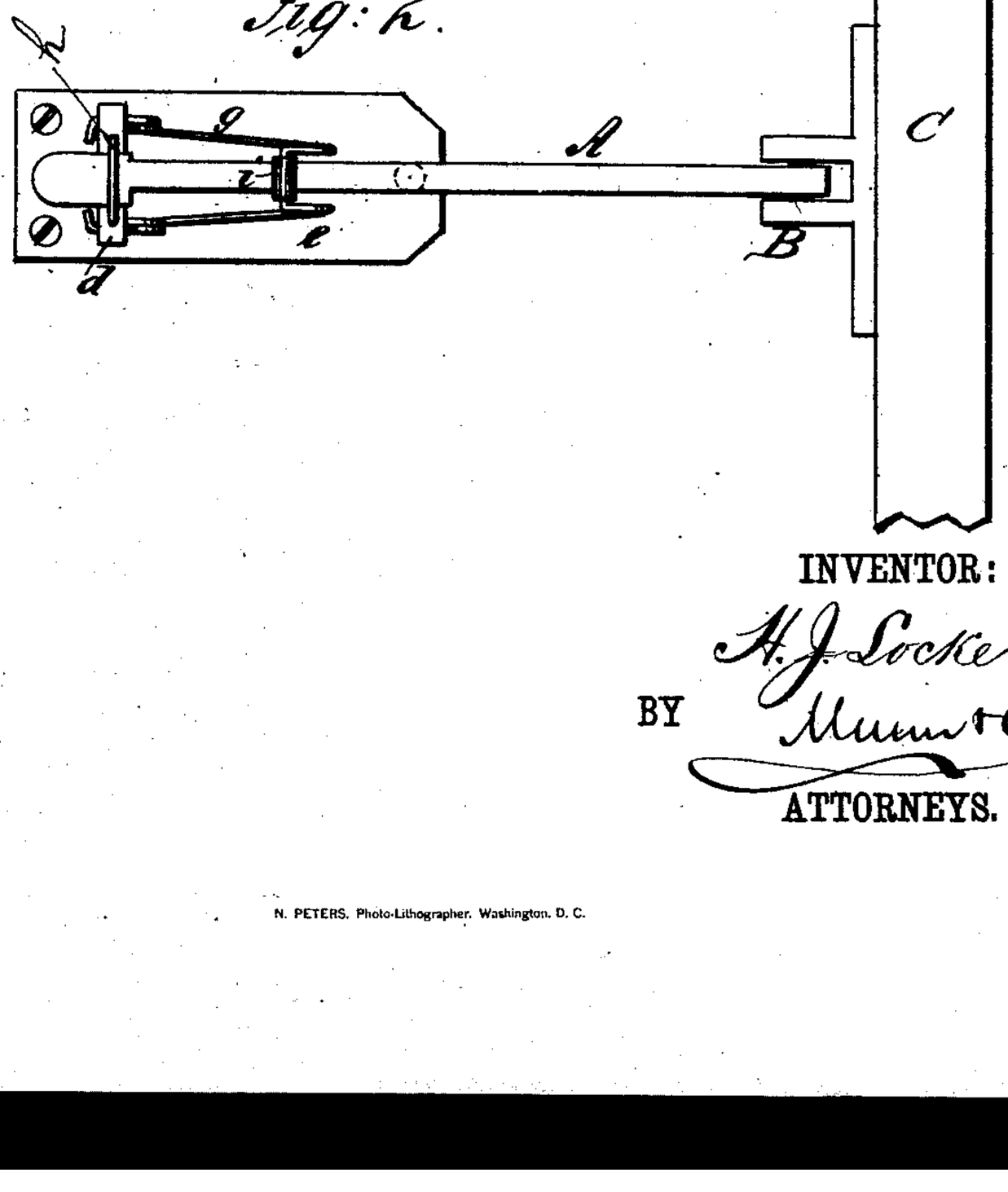


Fig: 3

Fig: 2.



WITNESSES:

A. Schehl.

C. Seigurck

INVENTOR:

H. J. Locke

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

HORATIO J. LOCKE, OF BELFAST, MAINE, ASSIGNOR TO HIMSELF AND ADOLPHUS B. MATHEWS, OF SAME PLACE.

TABLE-LEAF SUPPORT.

SPECIFICATION forming part of Letters Patent No. 245,184, dated August 2, 1881.

Application filed March 19, 1881. (Model.)

To all whom it may concern:

Be it known that I, HORATIO J. LOCKE, of Belfast, in the county of Waldo and State of Maine, have invented a new and useful Improvement in Table-Leaf Supports, of which the following is a specification.

The main object of the invention is to so improve table-leaf supports that the spring will only be allowed to exert its greatest power when supporting the leaf. The means by which this is accomplished will first be described in connection with the drawings and then pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my invention, showing, in full lines, the table-leaf in horizontal position, and in dotted line in an inclined position. Fig. 2 is a bottom view, and Fig. 3 is a sectional view, of the spring.

Similar letters of reference indicate corresponding parts.

A represents the arm, which is of metal, and is curved, as shown, and pivoted at *a* in the bifurcated lug B, which is screwed or otherwise secured to the leg or other vertical portion C of the body of the table. The end of the arm A is provided with one or more notches, *c c*, which engage with the shoulder or projection *d* on the under side of the leaf D of the the table for supporting the same in a horizontal or inclined position, as shown in Fig. 1. The shoulder or projection *d* may be formed upon or secured to the plate *e*, which is screwed to the under side of the table-leaf. The loop *h* and the spring *g*, over and through which the arm A passes, are also secured to the plate *e*, the former serving as a guide for the arm to pass through when the leaf is raised and lowered, and the latter serving to always keep the notched end of the arm in contact with the shoulder *d*, and to cause the projections *c* to engage with the same when the leaf is raised.

To prevent necessary friction between the arm and the spring, the roller *i* may be placed at that point on the spring, as shown.

The arm should be of such length relative to the width of the leaf of the table as to furnish a firm and secure support therefor, and of such length that the end thereof which projects through the loop will be in easy reach for disengaging the notches for lowering the leaf.

In raising the leaf all that is necessary is simply to swing the leaf up until one of the notches of the arm passes the shoulder or projection *d*, when the spring will lift the arm and cause it to engage therewith, and thus retain the leaf in a horizontal or inclined position, as desired.

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

1. In table-leaf supports, the hinged arm A, notched on its upper end and curved in an upward direction, in combination with a projection, *d*, and spring *g* on the under side of the table, whereby the curve in the arm and the position of the spring allow the latter to exert its greatest power only when supporting the leaf.

2. The spring *g*, having the anti-friction roller *i*, in combination with the curved, notched, and pivoted arm A and the shoulder or projection *d*, and the loop or guide *h*, substantially as and for the purposes set forth.

HORATIO JOHNSON LOCKE.

Witnesses:

ISRAEL V. MILLER,

GEO. G. PIERCE.