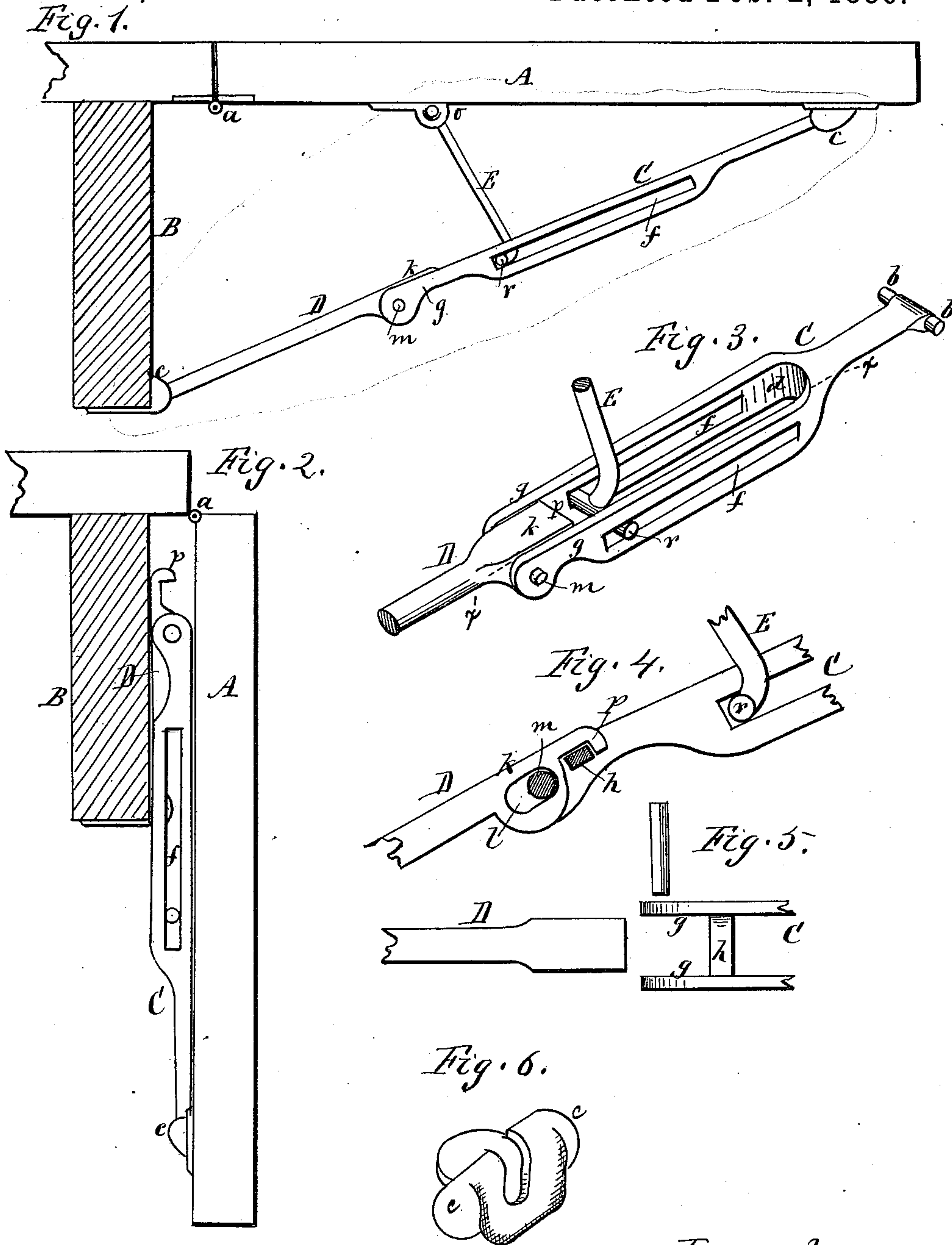


(No Model.)

I. WINANS.  
TABLE LEAF SUPPORT.

No. 335,265.

Patented Feb. 2, 1886.



Attest.

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# UNITED STATES PATENT OFFICE.

IRA WINANS, OF ROCHESTER, NEW YORK.

## TABLE-LEAF SUPPORT.

SPECIFICATION forming part of Letters Patent No. 335,265, dated February 2, 1886.

Application filed June 13, 1885. Serial No. 168,579. (No model.)

*To all whom it may concern:*

Be it known that I, IRA WINANS, of the city of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Table-Leaf Supports; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation showing the device applied to a table and the leaf extended. Fig. 2 is a similar view with the leaf lowered. Fig. 3 is a perspective view of the attachment with a portion broken away. Fig. 4 is a section in line XX of Fig. 3. Fig. 5 is a plan view of Fig. 4, the parts being separated. Fig. 6 is a perspective view of lug for supporting the end of the leaf-support.

My improvement relates to table-leaf supports in which two jointed arms are used to hold the leaf extended, and which fold compactly when the leaf is lowered.

The invention consists in the combination of the arms and a hinged brace, one of the arms being slotted, and the brace having a cross-head that slides in the slots, all as hereinafter described.

In the drawings, A shows the table-leaf, and B a portion of the frame, to which the leaf is jointed at *a*, to turn up and down, as usual.

My improvement is as follows:

C and D are two arms, pivoted at the outer ends to the leaf and frame and in the center to each other. The outer ends of the arms have journals *b b* at right angles to the arms, which rest and turn in socketed bearings *c c*. The outer arm, C, is broadened in its central part both horizontally and vertically, and has in its top a long slot, *d*, and in its sides two long slots, *f f*, for the connection of the brace. At its lower end it also has two forked arms, *g g*, that form the knuckle, and a cross-bar, *h*, that connects them a little distance back from the end. The inner end of the arm D has a head, *k*, that fits between the forks, and a slot, *l*, through which passes the pivot *m*, that connects the parts, and also a right-angled hook, *p*, which extends over and past the cross-bar *h*, and hooks to and engages with the same when the arms are extended.

E is an angular brace, consisting of an arm

pivoted or jointed at *o* to the under side of the leaf, the lower end passing through the slot *d*, and provided at its extremity with a cross-head, *r*, the ends of which rest and run in the side slots, *f f*, of the lever C.

The operation is as follows: When the leaf is extended, the arms C D will be straightened, as shown in Fig. 1, and the brace E will fall of its own weight, the cross-head *r* running down in the side slots, *f f*, when, by reason of its angular position, it will brace the arms and hold them extended till it is slipped back. This is done by placing the fingers on the under side and grasping the cross-head. The slot *l* is to allow full operation of the support when there is a variation in the projection of the fixed top beyond the frame. If desired, the play may be allowed at the lower bearing, *c*. When the arms are extended and the brace lowered, as above described, the hook *p* strikes over and engages with the cross-bar *h*, by which means the two arms are hooked together, and any longitudinal strain produced on the arms by raising the outer edge of the leaf or by other means will prevent strain on the hinge of the leaf, and will lock the parts securely together.

One great advantage in this device is the connection of the brace E with the arm C by the cross-head *r* resting in side slots, *f f*, of the arm, by means of which the arm is positively operated in both directions as the brace is thrown forward and back, the action being thus automatic.

Another advantage consists in the use of the hook *p*, engaging with the cross-bar *h*, for the purposes before described.

This invention is applicable not only to the leaves of tables, sewing-machines, &c., but also to seats, settees, and for similar uses.

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

1. In a table-leaf support, the combination, with the two jointed arms C D, of the inclined brace E, jointed at one end to the leaf, and provided at the other end with a cross-head, *r*, that runs in side slots, *f f*, of the arm C, as shown and described, and for the purpose specified.

2. In a table-leaf support, the combination of the two jointed arms C D and the inclined

brace E, the brace provided with a cross-head  
at its lower end, that runs in side slots of the  
arm C, and the arm D provided with a hook,  
p, that engages with a cross-bar, h, on arm C,  
5 as shown and described, and for the purpose  
specified.

In witness whereof I have hereunto signed

my name in the presence of two subscribing  
witnesses.

IRA WINANS.

Witnesses:

R. F. OSGOOD,  
D. W. BUSH.