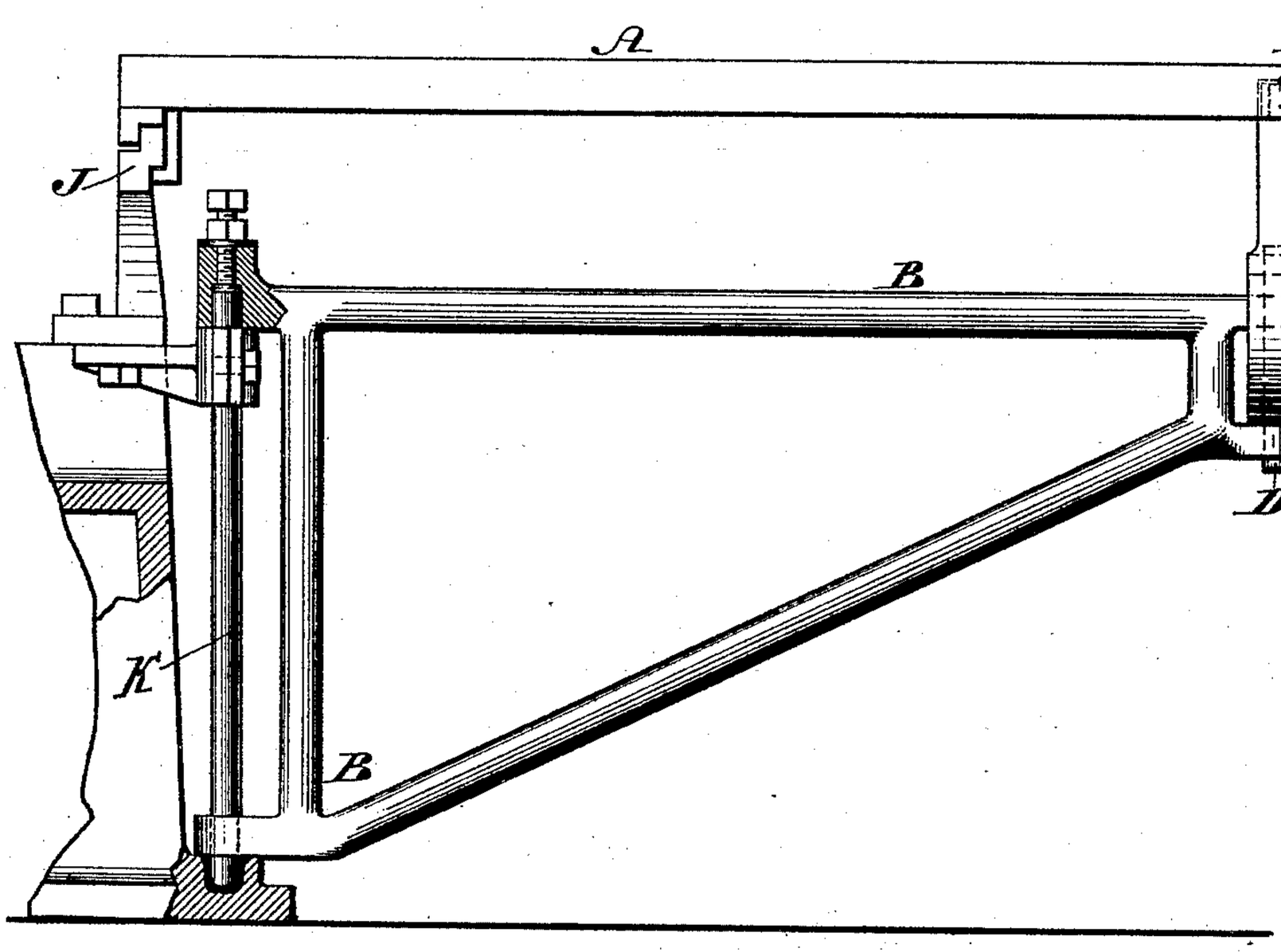
(No Model.) 2 Sheets—Sheet 1.

W. D. HERSCHEL.

TABLE FOR TENON AND OTHER MACHINES.

No. 460,069. Patented Sept. 22, 1891.

Fig. 1.



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(No Model.) 2 Sheets—Sheet 2.

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TABLE FOR TENON AND OTHER MACHINES.

No. 460,069. Patented Sept. 22, 1891.

Fig. 2.

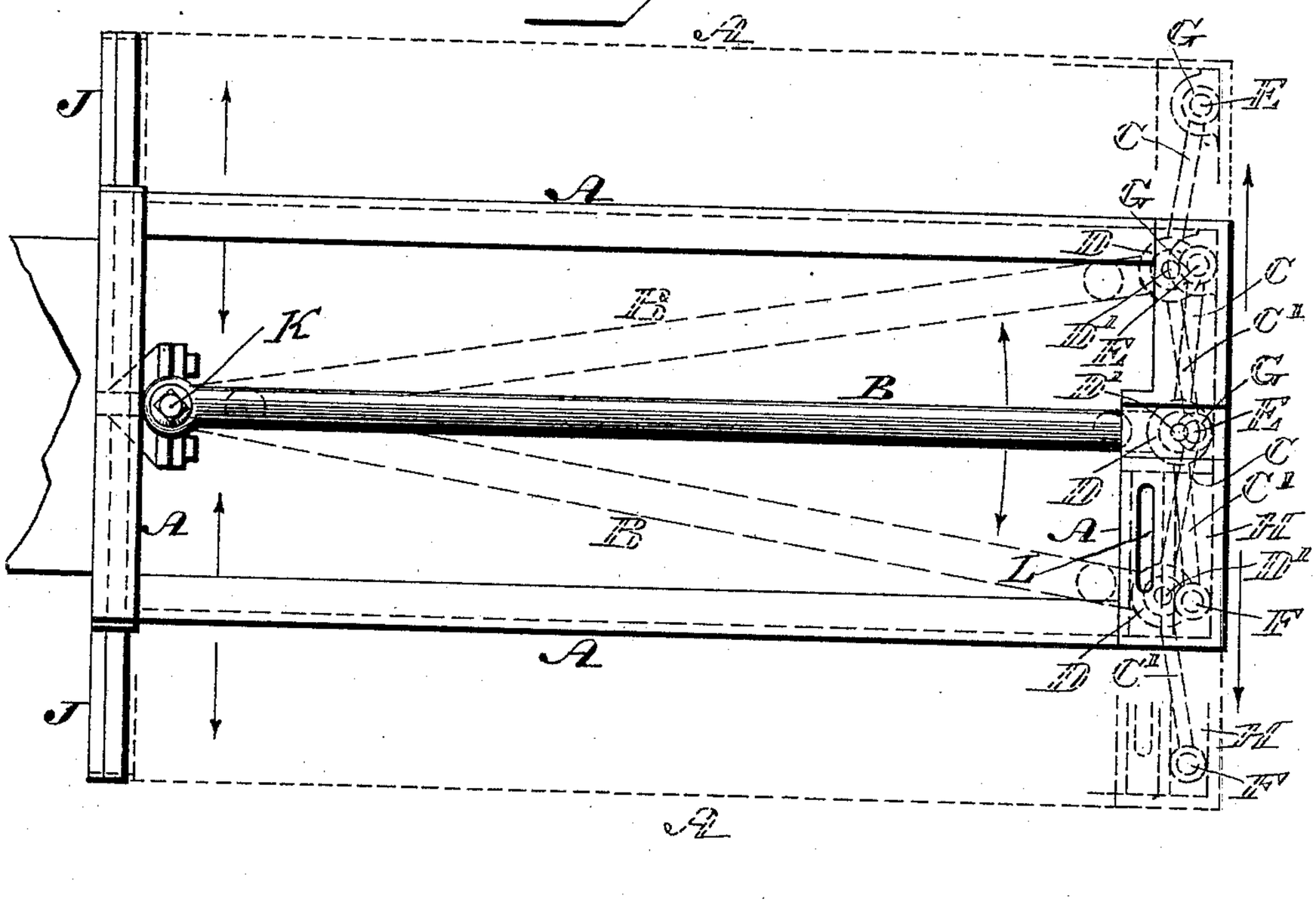


Fig. 3.

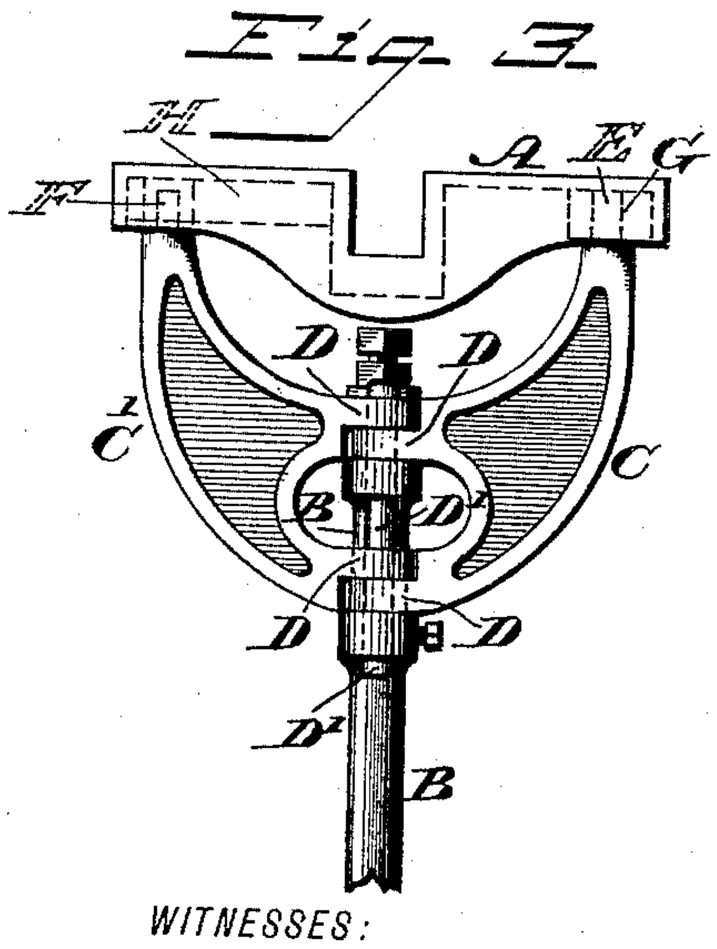
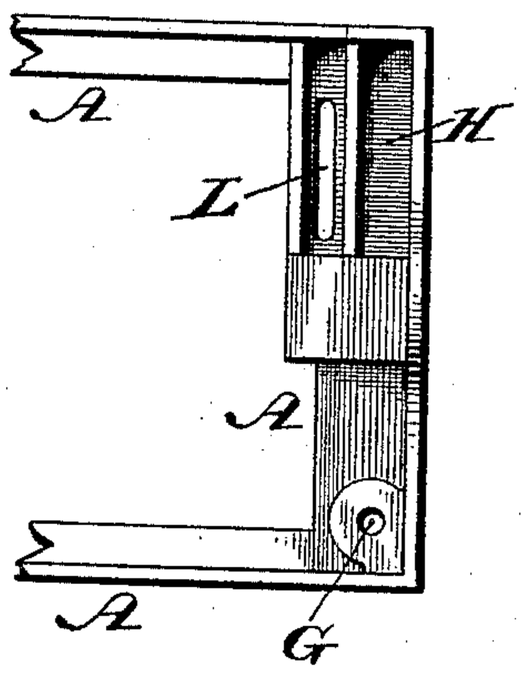


Fig. 4.



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UNITED STATES PATENT OFFICE.

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TABLE FOR TENON AND OTHER MACHINES.

SPECIFICATION forming part of Letters Patent No. 460,069, dated September 22, 1891.

Application filed January 6, 1891. Serial No. 376,860. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. HERSCHEL, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Tables for Tenon and other Machines, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of the table of a tenon or other machine adapted to be uniformly supported on the front end thereof regardless of the lateral motions of the same.

Figure 1 represents a partial side elevation and partial vertical section of the table of a tenon-machine and the support thereof embodying my invention. Fig. 2 represents a top or plan view thereof. Fig. 3 represents an end view of a portion thereof. Fig. 4 represents a bottom plan view of a portion of the table.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the table of a tenon-machine, having its outer end supported on the swinging bracket B, which is pivotally attached to the frame of the machine by means of a vertical shaft or rod K, which is inserted in ears on the said frame and bracket. Interposed between said end of the table and outer end of the bracket are arms C C′, the inner sides of which are formed with ears D D, through which is freely passed the vertical rod or shaft D′ on the bracket, it being noticed that owing to said ears D said arms are pivotally connected with said rod. The upper ends of the arms have journals E F, which project vertically, the journal E entering an eye G and the journal F entering a transversely-extending slot H, said eye and slot being on the under side of the outward end of the table, it being noticed that the arms engage the table at two places near the sides thereof, by which provision said table is firmly and steadily supported and prevented from tilting or breaking down.

The inner end of the table is supported on a cleat or way J, as usual in such cases, said end sliding on said way when transverse motions are imparted to the table, it being noticed that during said motions the journal E rotates in the eye G and forms a pivotal connection of the arm C with the table A, while the journal F plays in the slot H, due to the turning of the arm C′ as the bracket B changes its angle, the two arms C C′ acting somewhat after the manner of a toggle, as shown dotted at the right hand of Fig. 2, it being evident that said arms provide a support for the table at two places during every position of the same, which is especially serviceable when the table is loaded and changes its position while the timber is undergoing the tenoning operation.

L designates a slot in the table for adjustment of a work-guide thereon.

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

1. A table with a bracket having arms mounted on a shaft thereof, one of said arms having a journal in the table and the other arm working in a slot thereof, said parts being combined substantially as described.

2. A table having a slot therein, a bracket hinged to a suitable support, two arms pivotally mounted on said bracket, one of said arms having an end journaled in said table, and the other arm having an end freely entering said slot, said parts being combined substantially as described.

3. The arms C C′, provided with ears D, which are mounted on the shaft D′, and the swinging bracket B, supporting said shaft, in combination with the table A, having the eye G and slot H, the upper ends of said arms having journals E F, the journal E being mounted in the eye G, and the journal F freely entering the slot H and being adapted to play therein, substantially as and for the purpose set forth.

4. A tenon-machine having a slotted table provided with an eye, a swinging bracket adapted to support the said table, arms interposed between said table and bracket, ears on said arms, a shaft freely passing through said ears, and journals on said arms, one of said journals entering said eye and the other

entering the slot in the table, said parts being combined substantially as described.

5. A tenon-machine having a swinging bracket with two pivoted arms, a slotted table with an eye supported on said bracket, one of said arms having a journal-bearing in said eye and the other arm having a journal-bearing in the slot in said table, said parts being combined substantially as described.

WILLIAM D. HERSCHEL.

Witnesses:
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A. P. JENNINGS.