

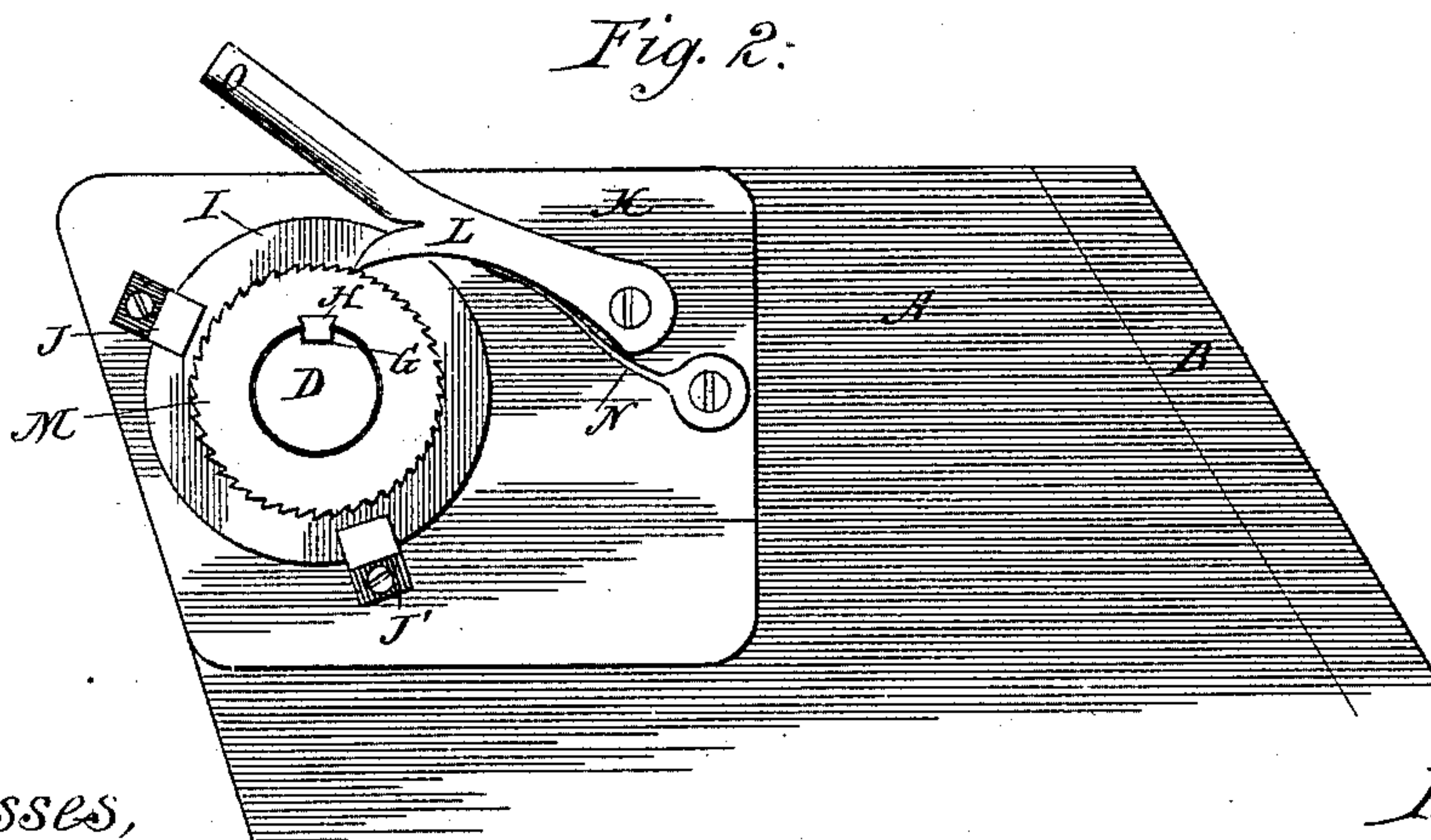
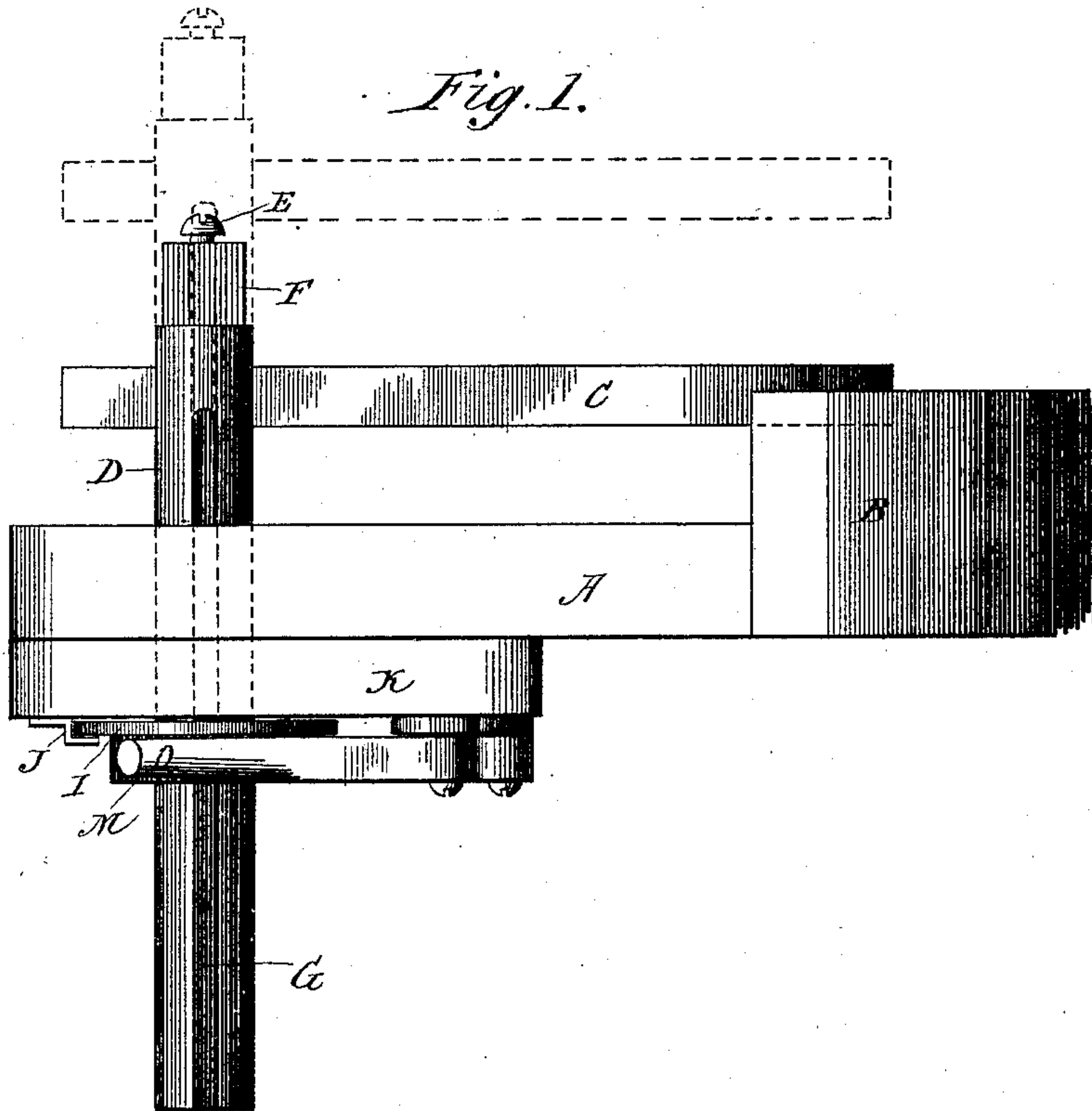
(No Model.)

C. REAFSTAHL.

SIDE SPRING FOR MOLDING MACHINES.

No. 354,229.

Patented Dec. 14, 1886.



Witnesses,

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# UNITED STATES PATENT OFFICE.

CHARLES REAFSTAHL, OF PULLMAN, ILLINOIS.

## SIDE SPRING FOR MOLDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 354,229, dated December 14, 1886.

Application filed July 21, 1886. Serial No. 208,652. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES REAFSTAHL, a citizen of the United States, residing at the village of Pullman, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Side Springs for Molding-Machines, which I desire to protect by Letters Patent of the United States, and of which the following is a specification.

Heretofore it has been usual to adjust the pivotal rod upon which the side spring is mounted by means of a set-screw—a device which rapidly wears, besides being liable to displacement.

My invention has for its object to replace the set-screw by a durable contrivance which will retain the arm fully in place without danger of displacement.

In the drawings annexed and forming part of this specification, Figure 1 is a side view of my device as it appears when attached to the operating-table, and Fig. 2 is a view of the same taken from below.

The table A has projecting above it a guide-piece, B, against which the strip of wood to be passed through the molding-machine is pressed by the adjustable side spring, C, mounted in or attached to a pivotal rod, D, passing down through a circular hole in the table. The arm C, as shown in the drawings, passes through a slot in the upper part of the rod D, and is held in place by a set-screw, E, in the upper end of the rod.

The rod D has in one of its sides a groove, G, extending from near its top to its other end, and a lug, H, attached to a circular collar, I, fitted to the rod D, and through which the latter passes, fits into the groove and prevents the rod from turning, unless it carries with it the collar I. This collar is held against the lower surface of the block K, attached to the under side of the table, by two lugs, J J', and the point of a spring-pawl, L, pivoted to the block, and is free to revolve in either direction, except when prevented by the engagement of the said pawl with a ring, M, of ratchet-teeth, attached to the under side of the collar or formed in one piece with the collar. The

pawl is pressed against the teeth of the ratchet by a spring, N, and a handle, O, is provided to enable the operator to pull the pawl out and release the rod D, and consequently arm C. The slot G permits the rod to slide vertically, so as to adjust the arm C to blocks or pieces of material of various sizes. After the block has been placed upon the table and the rod D has been vertically adjusted to the proper height, it is turned so as to cause the end of the arm C to press against the block with the proper degree of pressure, where it is held by the engagement of the point of the pawl with the ratchet.

The upper end of rod D is squared, as shown at F, for the application of a wrench for turning it.

This device, besides being more durable and certain in its action than the set-screw, is more readily and quickly set.

I wish it understood that I claim all the equivalents of the particular construction shown, as well as those constructions. Various forms might readily be given to the collar I and to the several parts, tongue D, and groove G, and the parts of the pawl-and-ratchet device might be transposed each with reference to the other, respectively, and many other changes might readily be made from the specific construction shown, without departing from my invention.

I claim—

1. The combination, with the guide-piece B, of the arm C, the rod D, carrying the same, said rod being provided with a slot, G, the collar I, provided with lug H and ring of ratchet-teeth M, and pawl L, substantially as and for the purpose set forth.

2. The combination of pressure-arm C, rod D, collar I, a tongue-and-groove connection being provided between said collar and said rod, and a pawl-and-ratchet device for controlling the position of said collar.

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Witnesses:

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