

(No Model.)

J. W. DEWEES.

FEEDING MECHANISM FOR SEWING MACHINES.

No. 363,811.

Patented May 31, 1887.

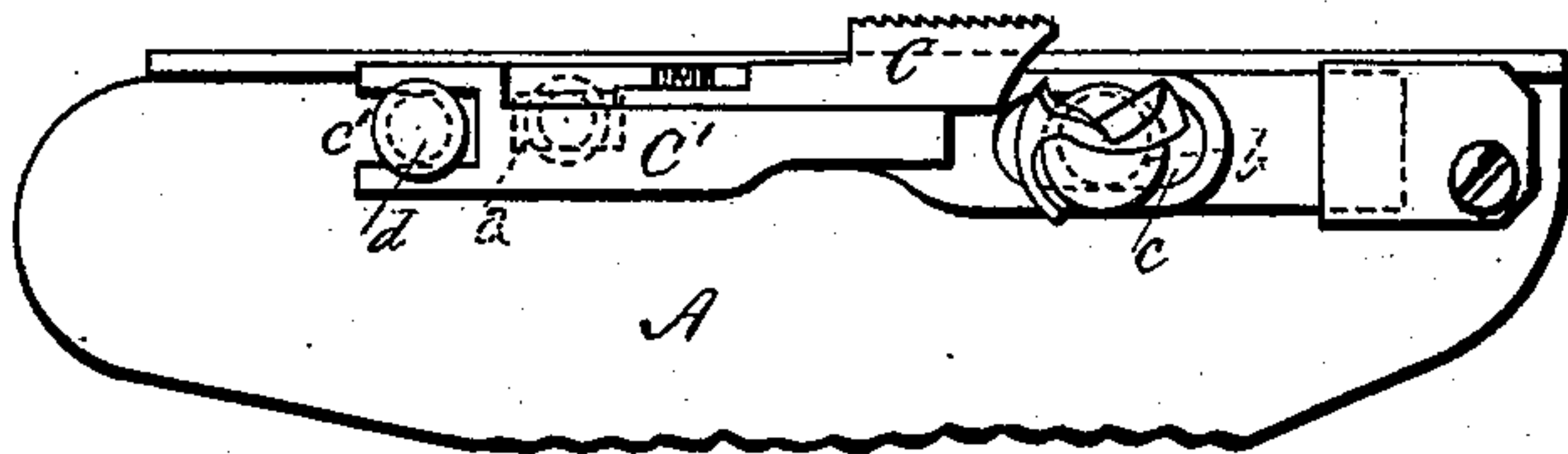


Fig. 4.

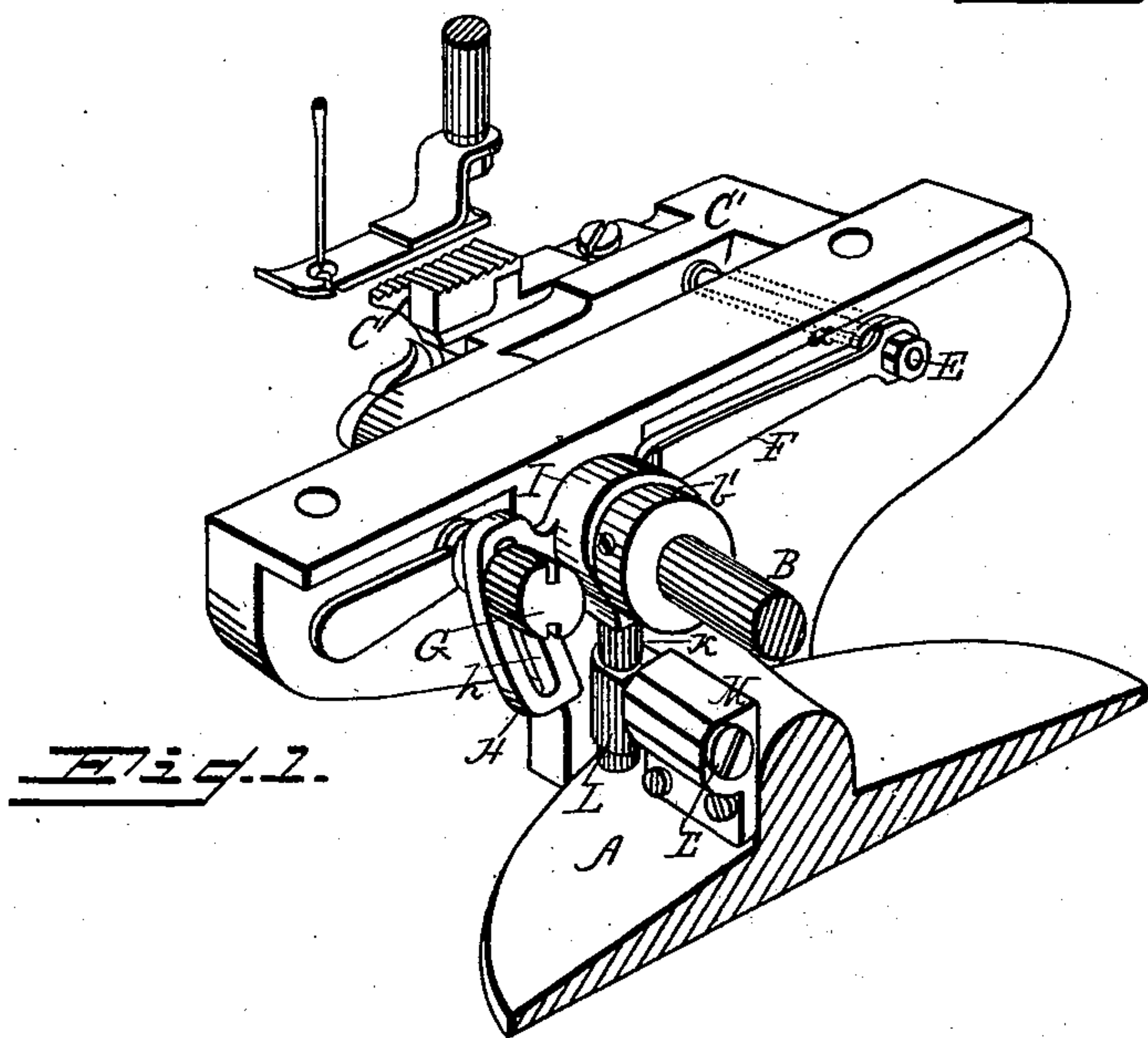


Fig. 1.

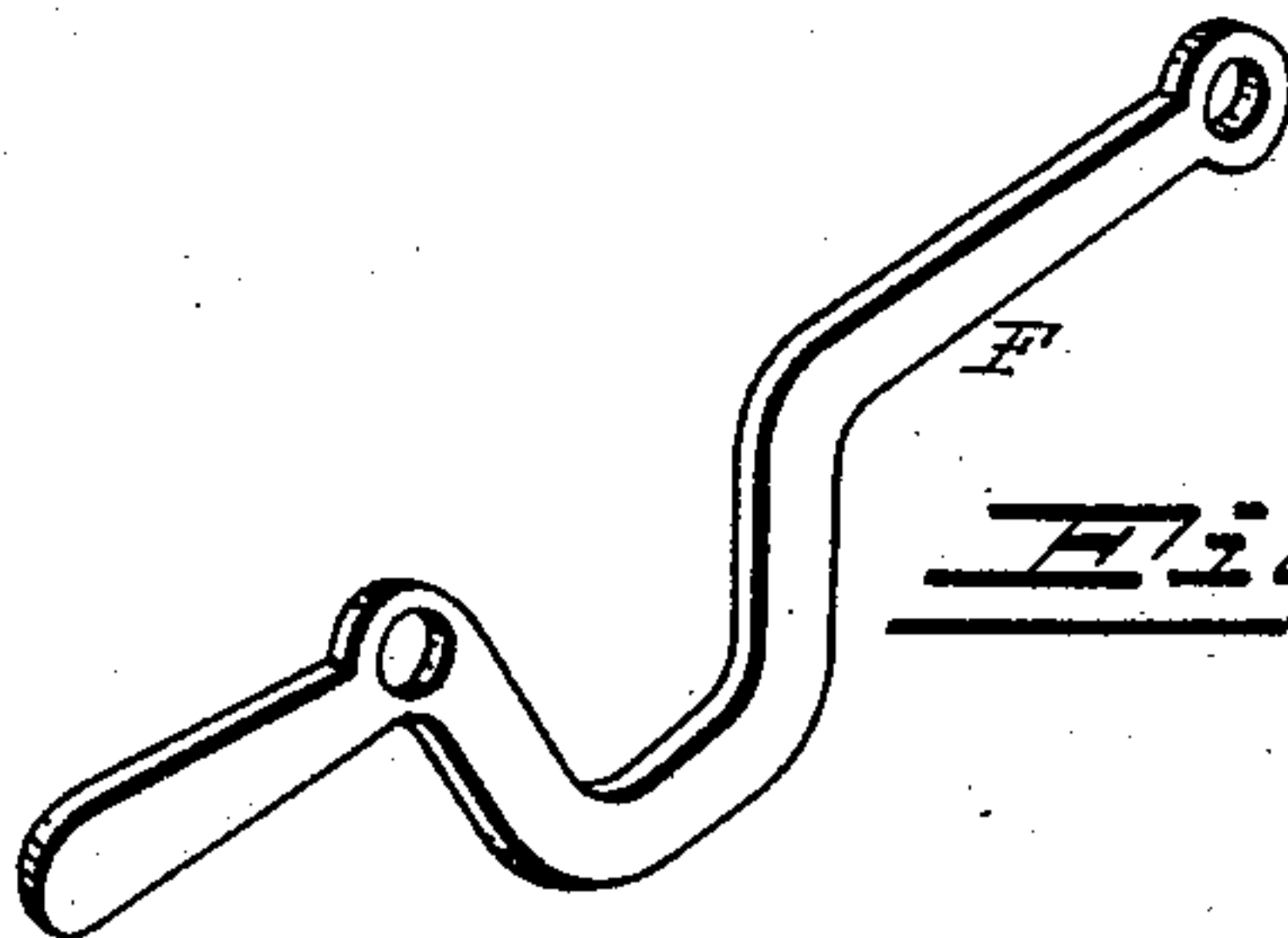


Fig. 3.

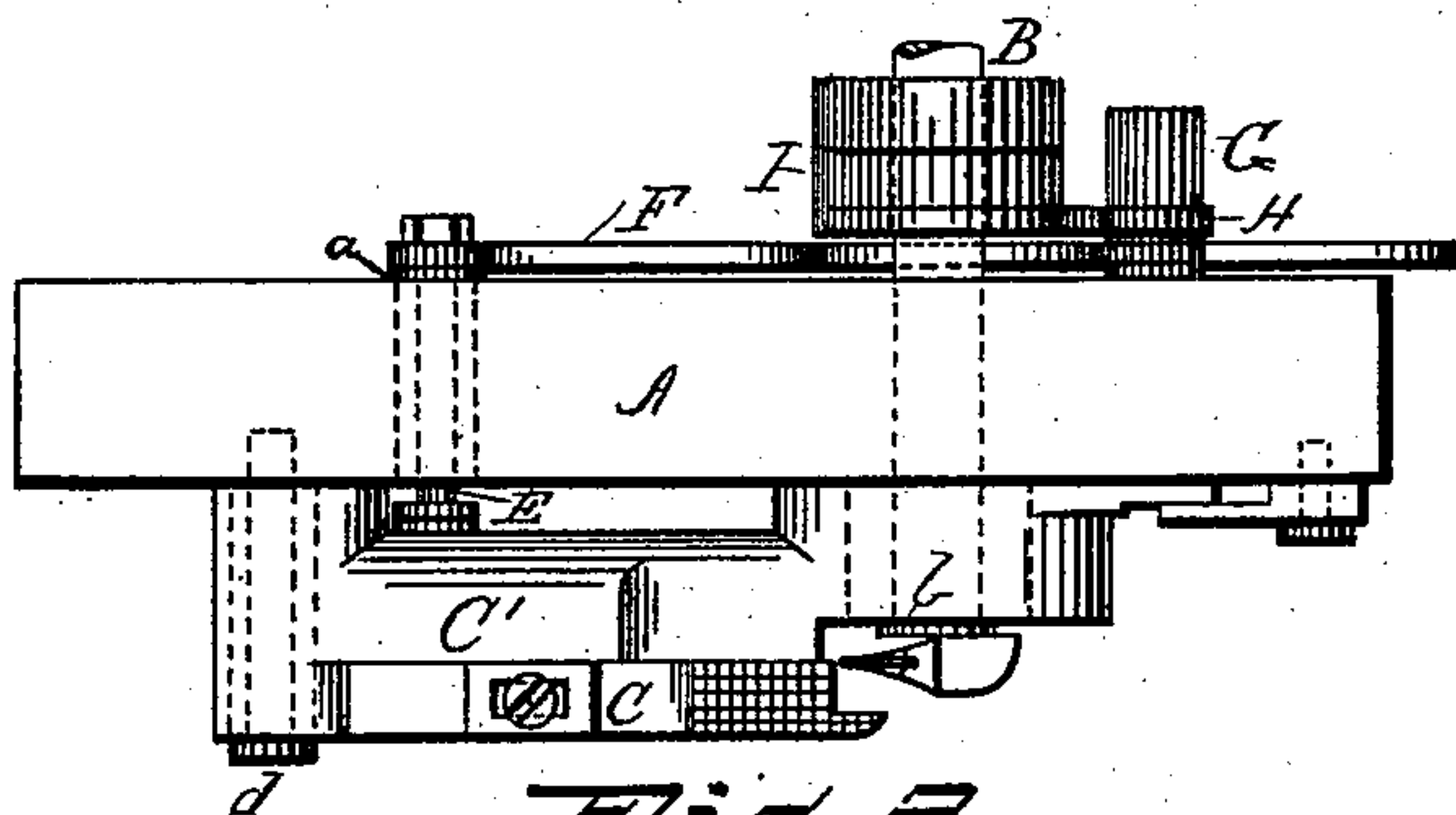


Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

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FEEDING MECHANISM FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 363,811, dated May 31, 1887.

Application filed March 27, 1886. Serial No. 196,809. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. DEWEES, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification.

My invention has for its object to provide an adjustable feed of improved construction for a sewing-machine.

My improvements consist in the peculiar construction and combination of parts, hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective of a portion of a sewing-machine, illustrating my improvements. Fig. 2 is a perspective of a lever forming part of my improved feed mechanism, and Fig. 3 is a plan view of said feed mechanism and a part of the bed of the machine. Fig. 4 is a front or end elevation of bed-piece, feed-bar, and dog.

In said drawings, A is the bed-piece, and B the main shaft of the machine, said shaft having its bearings in said bed-piece.

C is the feed-dog, which is sustained on or fastened to a feed-bar, C'. One end of the block C' has a slot, *c*, in which fits and revolves a cam, *b*, on the main shaft B. The other end of the feed-bar has a slot, *c'*, in which fits a stationary pin, *d*, projecting laterally from the bed-piece A, and forming a guide for said block.

E is a pin or stud projecting laterally from the feed-bar C', and passing through a slot or elongated opening, *a*, in the bed-piece A. To this pin is pivotally attached one end of a lever, F. Said lever extends parallel with the side of the bed-piece and crosses the main shaft B beneath the latter, being curved, as

shown, so as to pass under and then arise into the plane of said shaft.

On the operator's side of the machine the lever F is pivotally connected by an adjustable set-screw, G, with a segmentally-slotted arm, H. Said arm springs from or is secured to a collar, I, which encircles a cam, *b'*, on the main shaft B, and from said collar there projects downwardly a rigid pin or stud, K, which enters a smooth socket or sleeve, L, on a rock-shaft, L', fitted in a bearing, M, on the bed-piece A.

When the main shaft rotates, a longitudinally-reciprocating movement is imparted to the feed-bar by the lever F and the connections described, the rising and falling movements of the feed-bar, which has a "four motion," being derived from the cam *b*.

By adjusting the position of the pintle-screw G in the slot *h* of the rock-arm H the length of the feed of the machine may be regulated, and as the adjusting-screw is on the operators side of the machine, such regulation may be very readily effected.

What I claim as my invention is as follows:

In a sewing-machine feed, the combination, with the feed-dog C, of the feed-bar C', having slots *c c'*, one at each end, and a lateral pin, E, pin *d*, bed-piece A, having opening *a*, lever F, rock-arm H, having slot *h*, adjusting pintle-screw G, collar I, stud K, rock-shaft L', having sleeve L, and shaft B, having cams *b b'*, said parts being constructed and arranged for operation substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of March, 1886.

JOHN W. DEWEES.

Witnesses:

M. D. CONNOLLY,
R. DALE SPARHAWK.