

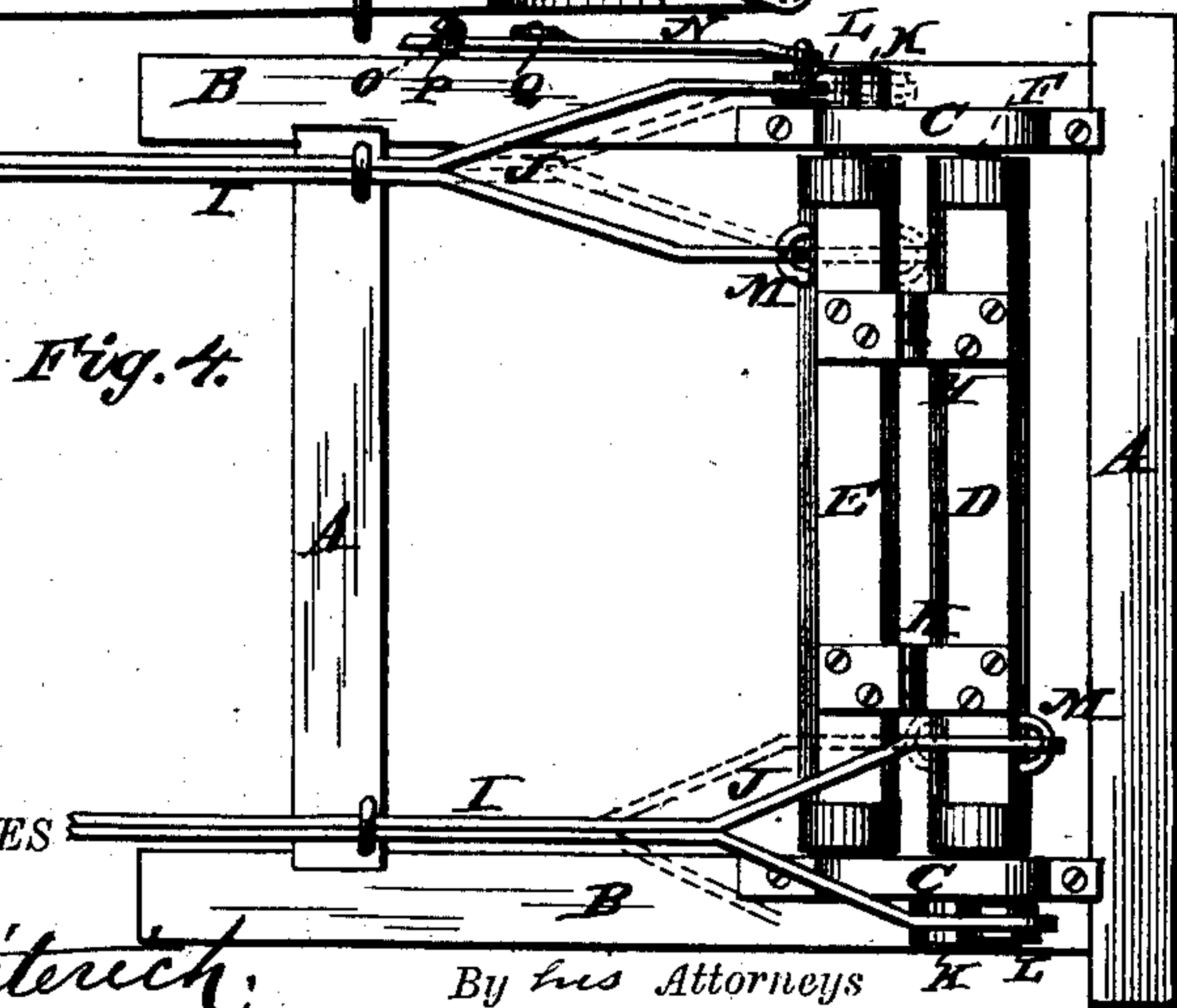
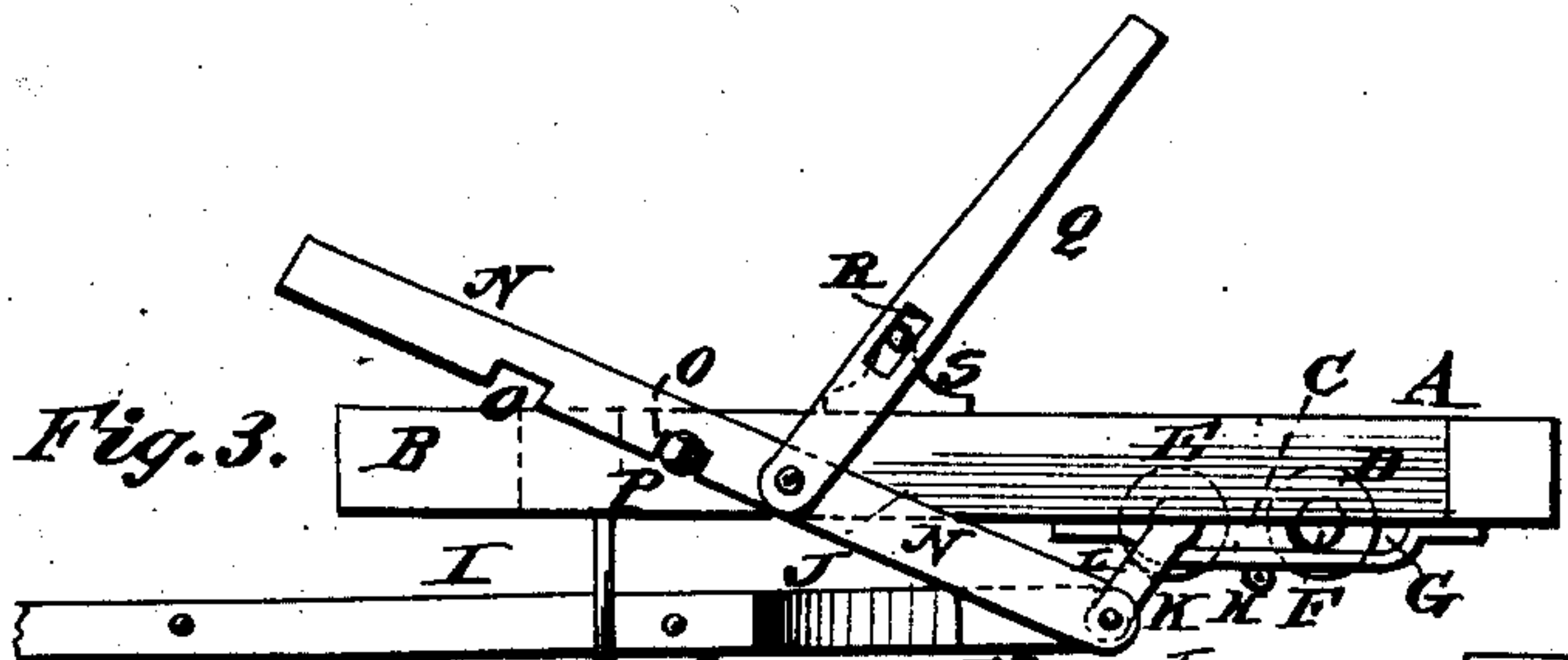
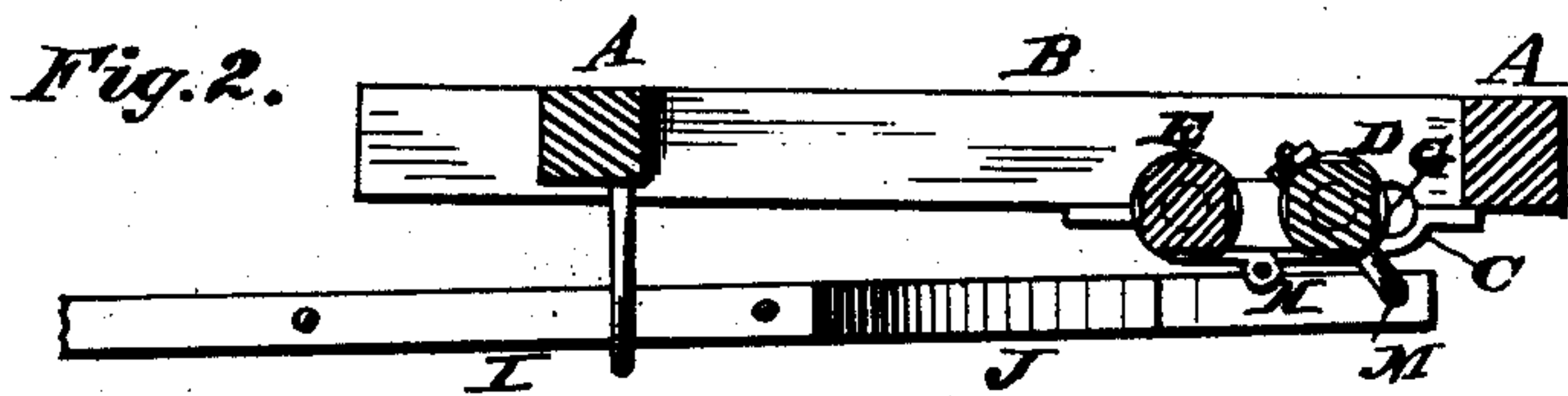
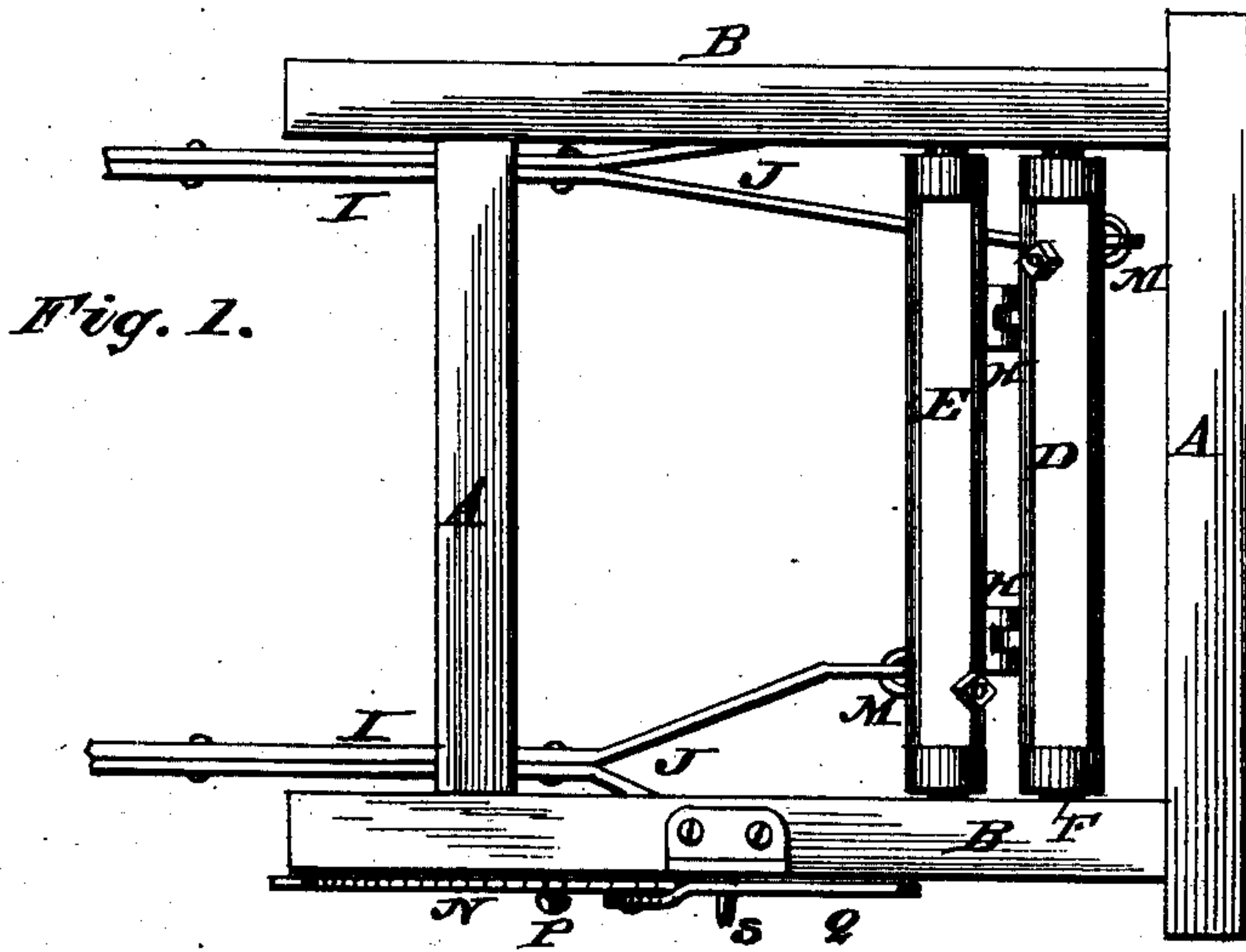
(Model.)

C. SCHOLZ.

GRAIN DRILL.

No. 244,771.

Patented July 26, 1881.



WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES SCHOLZ, OF DAYTON, OHIO.

GRAIN-DRILL.

SPECIFICATION forming part of Letters Patent No. 244,771, dated July 26, 1881.

Application filed May 13, 1881. (Model.)

To all whom it may concern:

Be it known that I, CHARLES SCHOLZ, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful
5 Improvements in Grain-Drills; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a top plan, Fig. 2 is a longitudinal sectional view, Fig. 3 is a side view, and Fig. 4 is a bottom-plan view, of my invention.

15 Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to grain-drills; and it consists in a device or combination of parts by which the drag-bars may be adjusted to a
20 straight or zigzag line at will of the operator, as will be hereinafter more fully described, and particularly pointed out in the claims.

The invention is an improvement on the patent granted to Charles F. Scholz on August
25 14, 1877, No. 194,268.

In the drawings hereto annexed, A represents the frame of a grain-drill, the sides of which, B B, are provided with boxes C C for the transverse adjusting-bars D E. The front
30 one of these, D, is provided with spindles F, sliding longitudinally in slots G in the said boxes. The rear bar, E, has suitable spindles mounted in bearings in the boxes C. The bars D and E are connected, as shown, by hinges
35 H, so that when they are turned in their bearings the front bar, D, will slide longitudinally in the slots G, as indicated in dotted lines in Fig. 4 of the drawings.

I I are the drag-bars, which are forked at their
40 front ends, as shown at J. One of said drag-bars is connected to bar D and the other to bar E in the following manner: The adjusting-bars are provided at opposite ends with cranks K, having slots L, in which one arm of

the forked ends of the respective drag-bars is
45 pivoted, the other arm of each drag-bar being pivoted to a staple, M, upon the respective adjusting-bar. Intermediate drag-bars may be used, pivoted alternately to the bars D and E.

Pivoted to the crank K of one of the drag-
50 bars is a lever, N, having notches O O, adjustable upon a stud, P, upon the side of frame A for the purpose of retaining the transverse bars in any position to which they may be adjusted. To operate the said lever N, I avail
55 myself of a second lever, Q, pivoted thereto, and having a slot, R, sliding upon a stud, S, upon the side of the frame. The slot enables the said arm or lever Q to be lifted, so as to raise the notched lever N off stud P, when
60 the desired adjustment may be readily accomplished.

This invention is simple, inexpensive, and easily applied and operated.

Having thus described my invention, I claim
65 and desire to secure by Letters Patent of the United States—

1. The combination of the frame A, boxes C, having slots G, transverse bars D E, hinged together, and having slotted cranks K, and
70 staples M, the forked drag-bars I, and operating mechanism, as herein described, for the purpose set forth.

2. In a device for adjusting the drag-bars of grain-drills, the combination, with the ad-
75 justing-bar having crank K, and frame A, having studs P S, of the notched lever N, and the slotted lever Q, all arranged and operating substantially as herein described, for the purpose shown and specified. 80

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHARLES SCHOLZ.

Witnesses:

JOHN HANITCH,
WILLIAM H. CLARK.