

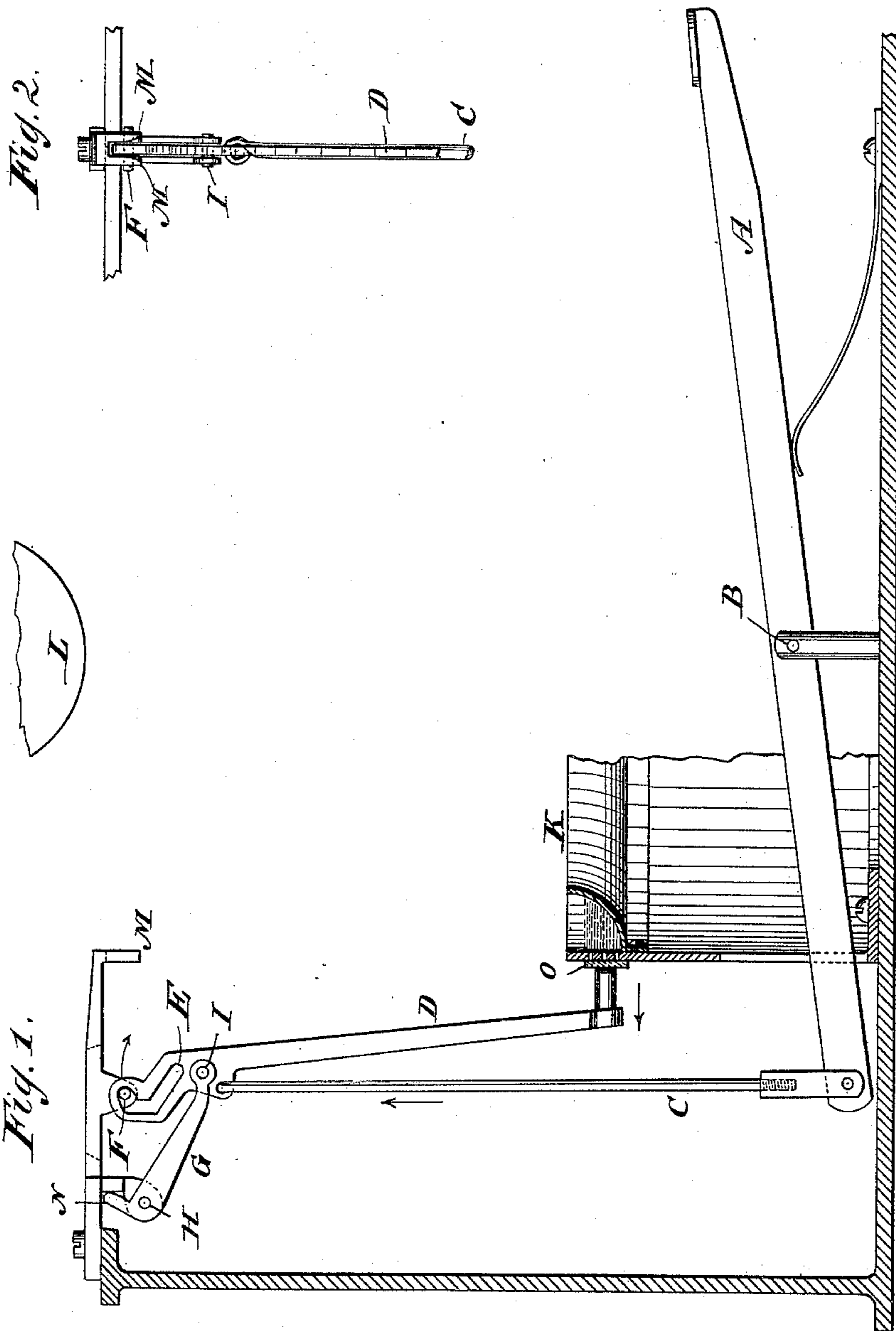
(No Model.)

2 Sheets—Sheet 1.

F. X. WAGNER.
TYPE WRITING MACHINE.

No. 411,361.

Patented Sept. 17, 1889.



WITNESSES:

Eduard Wolff.
William Miller

INVENTOR

Franz X. Wagner.

BY *Van Santvoord & Hauff*

ATTORNEYS

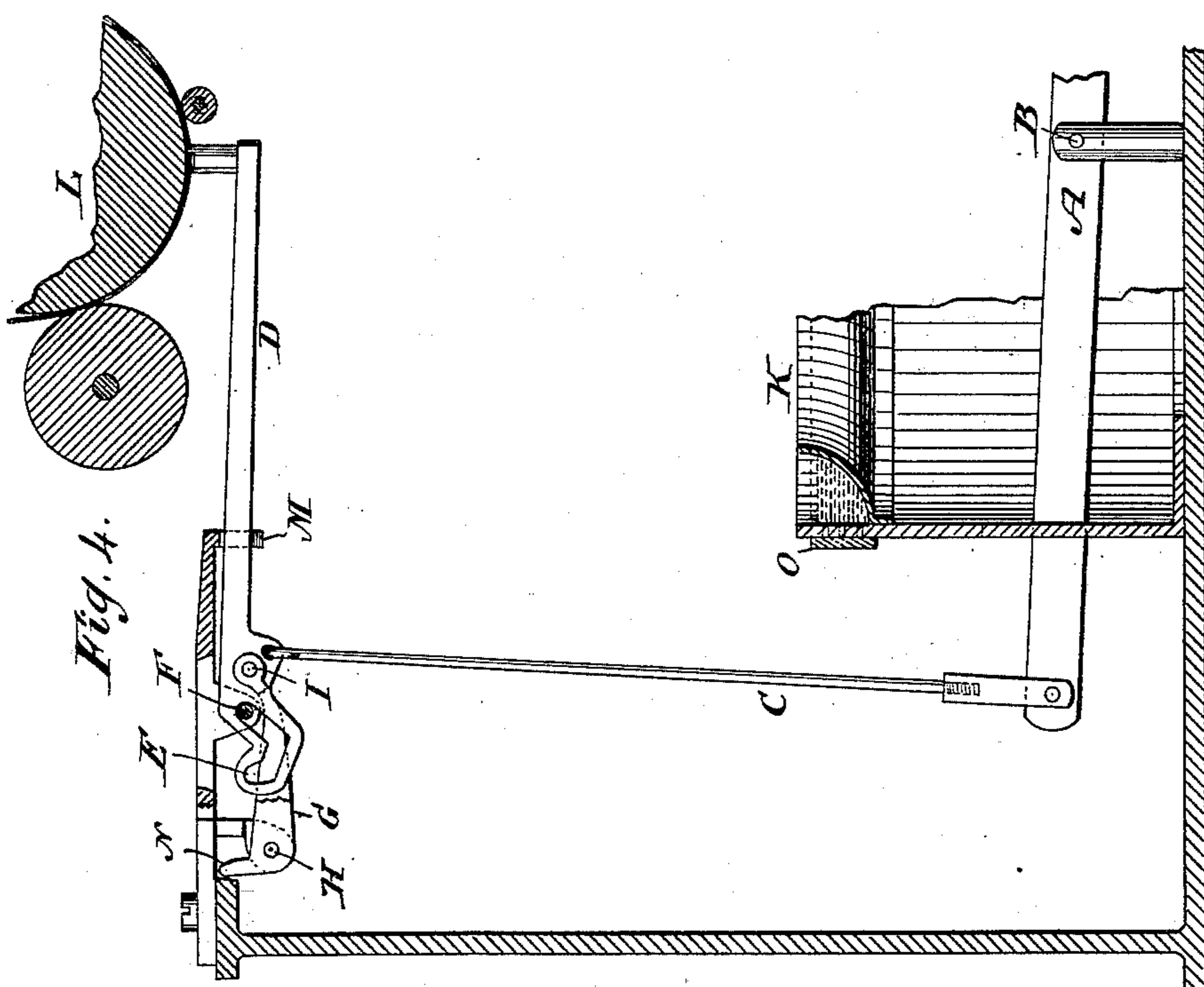
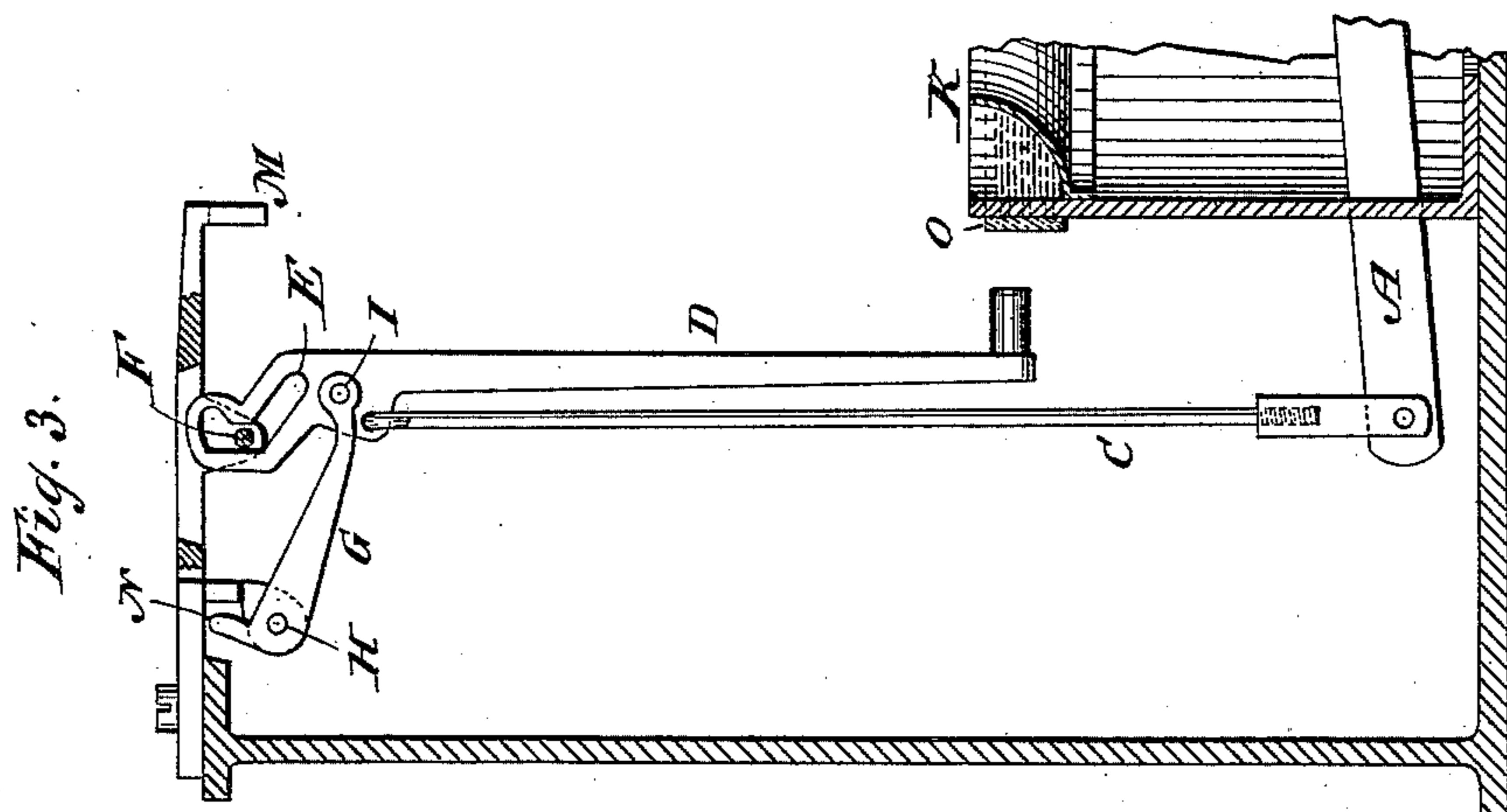
(No Model.)

2 Sheets—Sheet 2.

F. X. WAGNER.
TYPE WRITING MACHINE.

No. 411,361.

Patented Sept. 17, 1889.



WITNESSES:

Eduard Wolff.
William Miller

INVENTOR

Franz X. Wagner.
BY *Van Santvoord & Hauff*

ATTORNEYS

UNITED STATES PATENT OFFICE.

FRANZ X. WAGNER, OF NEW YORK, N. Y.

TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 411,361, dated September 17, 1889.

Application filed September 27, 1888. Serial No. 286,491. (No model.)

To all whom it may concern:

Be it known that I, FRANZ X. WAGNER, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to an improvement applicable to type-writing machines, as set forth in the following specification and claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation, partly in section, of a type-bar and adjacent parts. Fig. 2 is an end elevation of part of a type-bar. Fig. 3 is a view similar to Fig. 1, showing parts in a different position to that shown in Fig. 1. Fig. 4 is a view similar to Fig. 3, showing parts in a different position to that shown in Fig. 3.

Similar letters indicate corresponding parts.

In the drawings, the letter A indicates a key movable about the pivot or joint B. A connection-rod C connects the key A to the type-bar D. The type-bar has a cam-slot E, which is engaged by a pivot F, fixed to a suitable part of the machine. A link G is jointed at H to the machine or frame and at I to the type-bar. When the key A is actuated, so as to move the connection C in the direction of the arrow shown thereon in Fig. 1, the type-bar D is moved from the position shown in Fig. 1 to the position shown in Fig. 3, said type-bar passing out of contact with the inking device K. The motion of the key A being continued, the type-bar is brought to the position shown in Fig. 4, so as to produce an impression on a sheet on the platen or printing-roller L. The link G and pivot F cause the type-bar to strike the platen along the printing-line, as seen in Fig. 4.

M is a guide, the forked end of which (see Fig. 2) receives the type-bar on its upward motion, so that the type will strike on the printing-line. When the key A is released, the type-bar comes back into contact with the inking device, as seen in Fig. 1. The inking device may be a suitable pad, to which ink is applied from a fountain, as known to the printing trade.

From the foregoing description it will be

seen that when the key is depressed the type-bar is caused to swing back before it rises, so that the face of the type does not sweep over the ink-pad, for if the type-bar should be raised while the face of the type is in contact with the ink-pad the type would fill with ink and produce a blur.

The link G is shown provided with a stop N, which, as seen in Fig. 1, prevents the link from falling or sinking to such an extent that the type-bar D would be drawn out of contact with the inking device K.

The inking device, as shown in the drawings, has the pad O on the outside of the fountain, the ink being fed to said pad from an ink-supply within said fountain. By having the pad O outside of the fountain, as shown, the pad is in a position where it is readily accessible to the type-bar.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the key A, of a type-bar having a cam-slot E near its butt-end, a pivot F, engaging said cam-slot, a link G, jointed to a fixed part of the machine and to the type-bar, a connection-rod C between the key and type-bar, and an inking device K, substantially as described.

2. The combination, with the key A, of a type-bar having a cam-slot E near its butt-end, a pivot F, engaging said cam-slot, a link G, jointed to a fixed part of the machine and to the type-bar, a connection-rod C between the key and type-bar, a guide M for the type-bar, and an inking device K, substantially as described.

3. The combination, with the key A, of a type-bar having a cam-slot E near its butt-end, a pivot F, engaging said cam-slot, a link G, jointed to a fixed part of the machine and to the type-bar and having a stop N, a connection-rod C between the key and type-bar, and an inking device K, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

FRANZ X. WAGNER. [L. S.]

Witnesses:

W. C. HAUFF,

E. F. KASTENHUBER.