

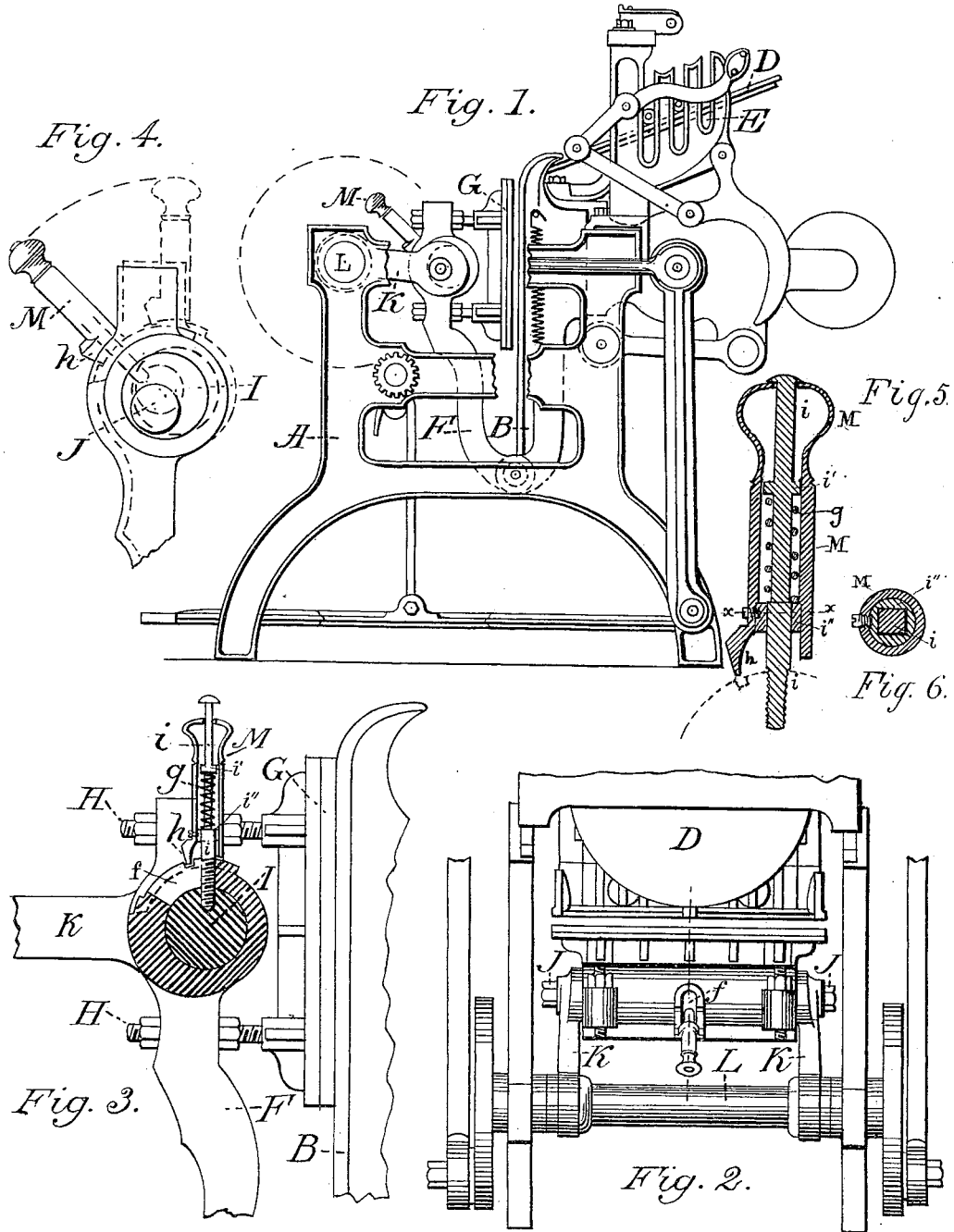
(No Model.)

F. VAN WYCK.

THROW-OFF MECHANISM FOR OSCILLATING PRINTING MACHINES.

No. 348,302.

Patented Aug. 31, 1886.



Witnesses:
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UNITED STATES PATENT OFFICE.

FREDERICK VAN WYCK, OF NEW YORK, N. Y.

THROW-OFF MECHANISM FOR OSCILLATING PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 348,302, dated August 31, 1886.

Application filed October 2, 1885. Serial No. 173,792. (No model.) Patented in Austria February 23, 1886, and in Germany July 12, 1886.

To all whom it may concern:

Be it known that I, FREDERICK VAN WYCK, of the city, county, and State of New York, have invented Improvements in Printing-
5 Presses; and I do hereby declare that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

10 Figure 1 is a side sectional view of a job-printing press to which my improvement has been applied; Fig. 2, a top view of the bed, platen, and their connections, the impression being suspended; Fig. 3, a sectional view of
15 the platen and means for suspending the impression; Fig. 4, a sectional view of the means for suspending the impression. Fig. 5 represents a detail in vertical section, showing the handle M raised, lifting the stop *h* from its
20 notch. Fig. 6 is a transverse section through the movable collar.

In the drawings like parts of the invention are designated by the same letters of reference.

25 The nature of the present invention consists in improvements in the construction of printing-presses of the class known as "job-printing presses," and will be found to relate particularly to the job-printing press for which Letters
30 Patent were granted to Fred. O. Degener, April 24, 1860, and to the combination of mechanical adjuncts by which the impression may be suspended at the will of the operator.

35 The importance in the construction of job-printing presses of means by which the operator is enabled to suspend the impression when desired need not be enlarged on here; but the advantages may be briefly stated as a saving
40 of material, either paper or card, which may by accident be improperly placed upon the platen of the machine, and which from such
45 improper placing would be rendered useless, and the ability to impart the desired quantity of ink to a large job, more particularly a color or tint job, as the rolling may be repeated
50 any desired or required number of times, but it is absolutely necessary that the means for suspending the impression shall be simple, easily and rapidly operated, reliable, and within easy reach of the operator that the object
55 desired may be carried out.

In the particular printing-press to which my improvement is applicable a rocking platen

and a rocking bed are about centrally connected, and are brought together that an impression may be given, the bed passing beneath
55 rollers that the form may receive a proper inking prior to being brought into contact with the paper or card to be printed.

Reference may be had to the patent already cited for a full description of the construction
60 of this particular machine, and as my invention relates only to the means employed to suspend the impression I will describe the same.

In the drawings the frame for supporting the operative parts of the machine is designated
65 as A, the bed upon which the form of types is placed as B, the disk upon which is distributed the ink to be imparted to the rollers as D, and the roller sockets or supports as E.

70 F shows the platen-frame supporting the platen G. Through this frame F and entering into the plate G, to regulate its position for printing relatively to the bed B, are passed the impression-screws H. The frame F, directly behind the platen G, is bored to receive
75 a shaft, I, free to turn in the same when desired. This shaft I is provided at each end with the eccentric studs J, over which are passed the forward ends of the connecting-
80 arms K, the rear ends of which are passed over the platen operative shaft L, having its bearing in the frame A. The platen-frame is slotted, as at *f*, to allow a rod, *i*, to be passed
85 through the opening *f* and be fastened in position upon the shaft I. Over this rod *i* is passed a spiral spring, *g*, and there is a fixed collar, *i'*, above, and a movable collar, *i''*, below, the spring *g*, the movable collar *i''* being
90 attached by a set-screw to the lower portion of a handle, M, passed over the rod *i*.

Such being the construction, the operation will be readily understood.

95 When necessary, either from the misplacement upon the platen of the paper or card to be printed by contact with the same of the type secured upon the bed B, and inked as the
100 bed is passed beneath the inking-rollers placed in the sockets or supports E, or when the form requires more inking than would be given to it if the bed were passed once or twice beneath
these rollers to suspend the impression or prevent the platen being moved sufficiently forward to admit of such contact, the handle M, attached to the shaft I, is grasped by the hand

of the operator and turned down or back from the vertical or nearly vertical position shown in the drawings to the position shown in Fig. 4 of the drawings, by which movement the shaft I is turned and the extent of movement of the platen G and of the connecting-arms K shortened to a sufficient extent to prevent contact of the type secured upon the bed B of the press with the paper or card placed upon the platen G. The handle M can be turned down sufficiently to govern the degree to which the shaft I should be turned to accomplish the desired result, the slot *f* being made of the proper length for this purpose, and has at its lower end a stop, *h*, and is raised to a sufficient extent to allow the stop *h* to be relieved from contact with the side, so to speak, of the frame at one end of the slot. As the handle M is raised the movable collar below the spring *g*, attached to the lower portion of the handle M, is drawn up, and the spiral spring *g* is compressed between the movable and the fixed collar upon the rod, and when the operator releases the handle expands and throws down the stop *h* into its proper position, in which it remains until necessary to manipulate it again, the stop having its bearing upon the side, so to speak, on the platen-frame at either end of the slot *f*.

It will be observed that the means employed by me to suspend the impression are simple, effective, and within easy reach of the operator, whose position is in front of the machine to feed it, easily operated, and that the cost of constructing the machine employing them is not materially increased.

Having now described my invention, I claim—

1. In the construction of a printing-press in which a rocking platen and a rocking bed connected about centrally are employed, the combination of a shaft, I, provided with the eccentric studs J, slotted platen-frame F, connecting-arms K, platen operative shaft L, and rod *i*, and handle M, constructed and operating substantially as and for the purpose set forth.

2. The combination of the platen-frame F, platen G, shaft I, connecting-arms K, shaft L, rod *i*, fixed and movable collars, spiral spring *g*, and handle M, provided with a stop, *h*, substantially as and for the purpose set forth.

FREDERICK VAN WYCK.

In presence of—

WILLIAM V. H. HICKS,
A. SIDNEY DOANE.