

D.K. Winder.
Card Printing Press.
No. 17,463. Patented Jun. 2, 1857.

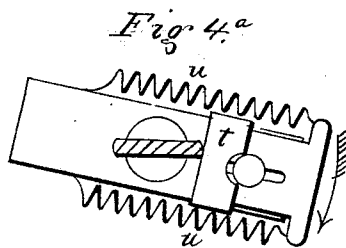
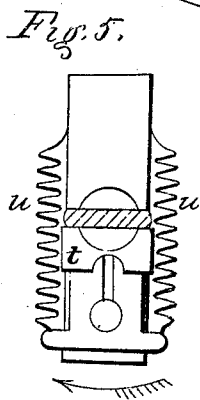
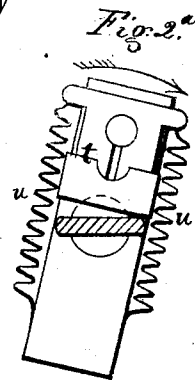
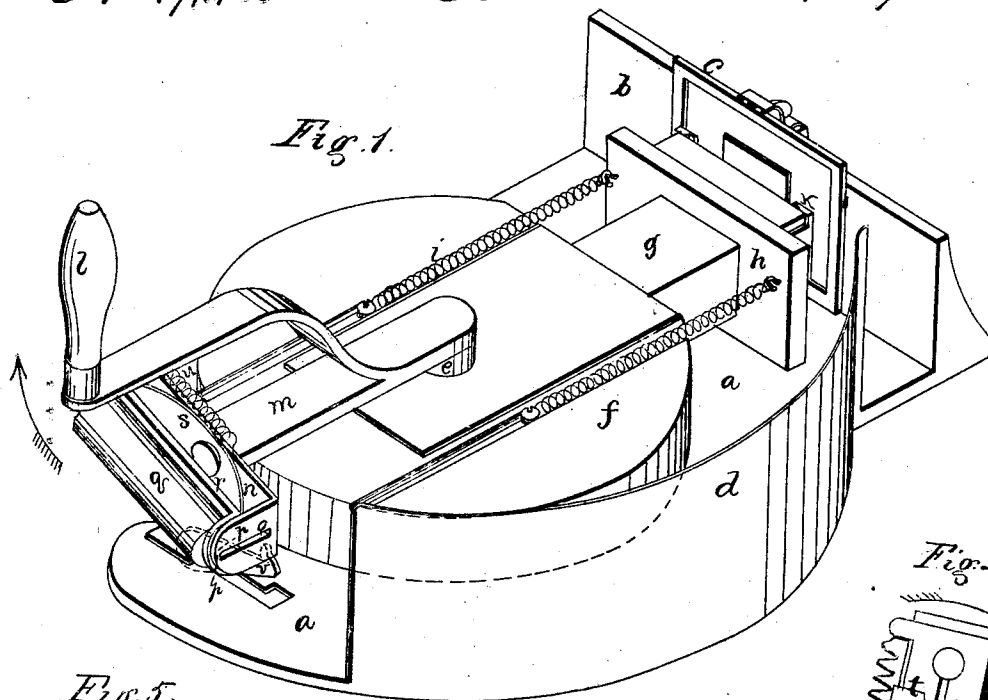
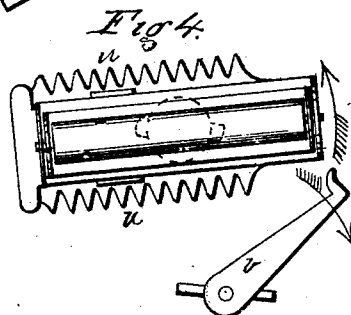
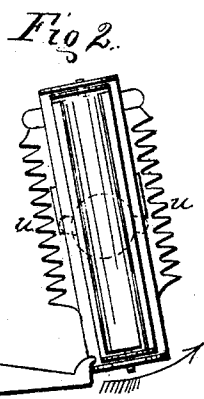
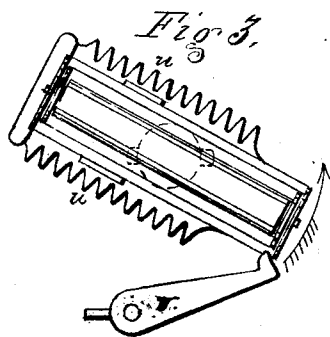
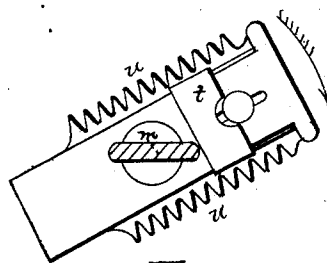


Fig. 3.^a



UNITED STATES PATENT OFFICE.

DANIEL K. WINDER, OF CINCINNATI, OHIO.

PRINTING-PRESS.

Specification of Letters Patent No. 17,463, dated June 2, 1857.

To all whom it may concern:

Be it known that I, DANIEL K. WINDER, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in
5 Card-Printing Presses; and I hereby declare the following to be a clear and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

10 I provide a form of card-printing press which from the cheapness of its construction and the accessibility of its parts, and in particular the automatic action of the ink-distributing mechanism, is adapted to
15 the use of a comparatively unskilled class of operators.

Instead of the customary vertical action my inking and imprinting operations are effected by mechanism revolving in a horizontal plane, the parts being all disposed
20 within a few inches of a level bed plate and all easily accessible and visible to the operator.

In the accompanying drawings:—Figure
25 1 is a perspective view of my press. Figs. 2, 3, and 4 exhibit successive positions of the roller in the acts of tripping and inversion. Figs. 2^a, 3^a, 4^a, and 5 are diagrams illustrative of the successive phases of the
30 tripping and inverting mechanism, viewed from the rear side.

(a) is an iron bed plate which may be fixed to a bench or table by screws or otherwise. Projecting vertically from the bed
35 plate in a plane tangential to the orbit of the inking roller hereafter described is the type bed (b) against which rests the type form or chase (c). Also projecting vertically from the bed plate is a curved flange
40 (d) concentric with the orbit of the inking roller. Also projecting from the bed plate is a boss (f) which forms the guide frame for the piston (g) of the platen (h) and contains within it a crank, cam or other
45 projection on the shaft (e) for actuating the platen.

(j) (j) are springs which retract the platen.

50 (k) is the card holder or rest, which being (by the usual devices) held for an instant just before the platen completes its retraction, liberates the printed card.

(l) is a handle by means of which the driving shaft (e) is rotated. Projecting
rectangularly from the shaft (e) is a
55 branch or arm (m) flattened above and below. To the end of this arm is pivoted a stirrup (n) in whose slotted ears (o) work the gudgeons (p) of the inking roller (q). (r) is the step or bearer of these gudgeons.
60 (s) is a spring inserted between the stirrup and bearer, which serves to press the roller against the ink-distributing plate (d) and again against the face of the type, as it is brought successively in contact with those
65 parts.

(t) is a sliding latch or button which being attached by springs (u) to the stirrup presses firmly against whichever side of the arm (m) it may be placed on, and thus
70 holds the stirrup and its contained roller constantly in a vertical position except during the act of inversion, which is effected by the following mechanism.

(v) is a hook, which in its normal or inactive condition lays on its back on the bed-
75 plate, to which it is pivoted by its butt end.

At a certain point in each circuit of the roller the lower end of the stirrup engages with this hook, and its advance being op-
80 posed thereby both the hook and the lower end of the stirrup ascend as the arm advances, and the sliding button (t) by the revolution of the stirrup on its pivot is drawn around the edge of the arm and is
85 then retracted against the other side of the arm by means of the springs (u).

What I claim as new and of my invention herein is—

The construction and arrangement substantially as set forth of the roller bearing
90 (n, o, r, s) pivoted to the flattened branch or arm (m) from the driving shaft and provided with the sliding spring button (t), in combination with the hook (v): or
95 equivalent devices for the tripping and inversion of the inking roller, between the consecutive inkings as herein explained.

In testimony of which invention I hereunto set my hand.

D. K. WINDER.

Witnesses.

GEO. H. KNIGHT,
JAS H. GRIDLEY.