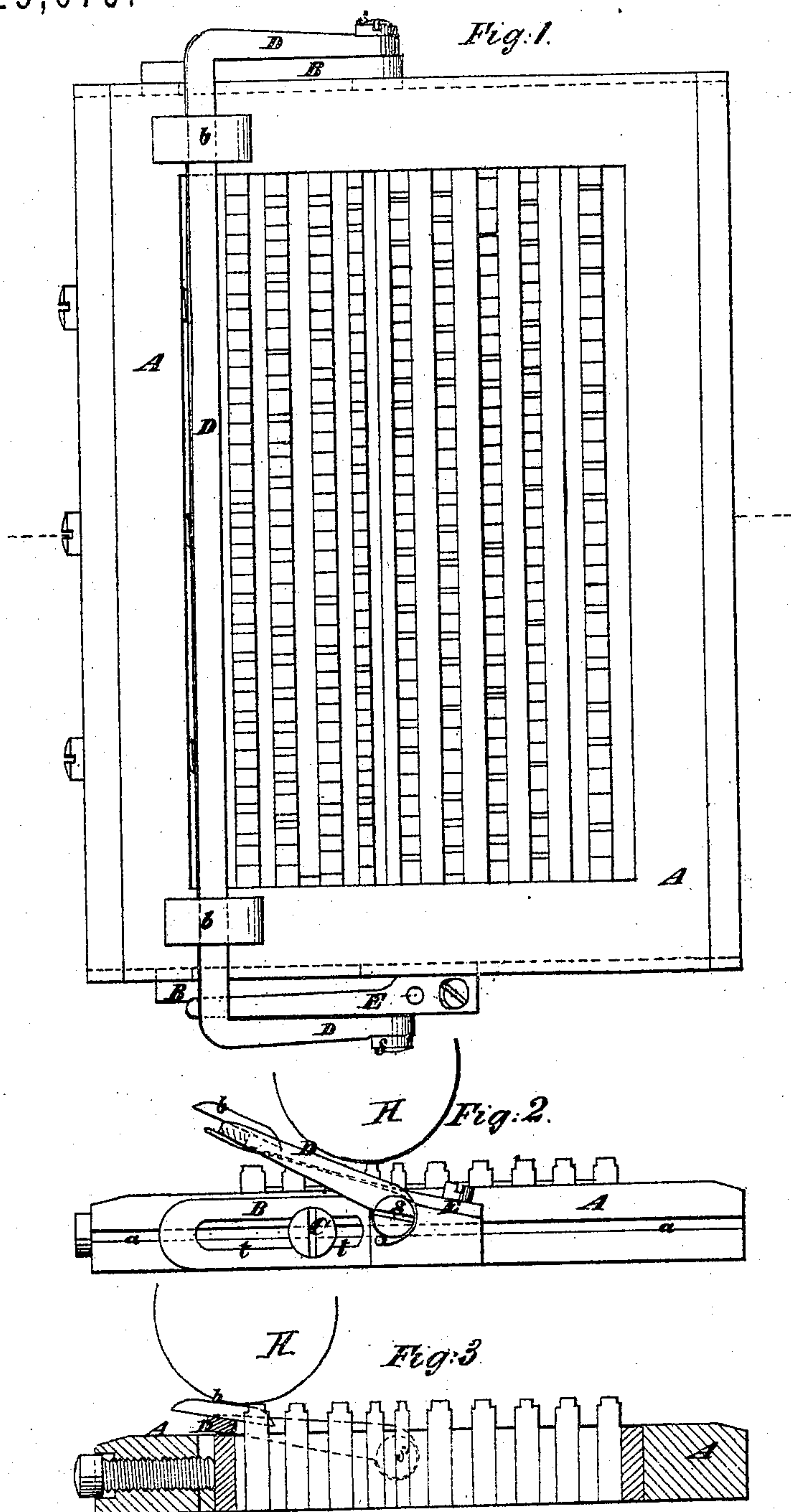


E. ALLEN.
Printers' Chase.

No. 129,079.

Patented July 16, 1872.



Witnesses:
Fred Hamer
R. R. Ralston

Edwin Allen
Inventor.

UNITED STATES PATENT OFFICE.

EDWIN ALLEN, OF NORWICH, CONNECTICUT, ASSIGNOR TO THE ALLEN MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN PRINTERS' CHASES.

Specification forming part of Letters Patent No. 129,079, dated July 16, 1872.

Specification of an Attachment for Printers' Chases, invented by EDWIN ALLEN, of Norwich, in the county of New London and State of Connecticut.

This invention is designed for chases to be used in cylinder-presses, and its object is to obviate the slurring of the sheet in printing by its dragging over the last line of the form. To this end it consists in a lifter attached to the chase, and actuated by a spring to lift or support the rear end of the sheet, as, after the impression has been completed, the said end passes out from between the cylinder and form. It is applicable with more especial advantage in printing on stiff paper or cards, the tendency of which is to leave the cylinder when the impression is complete.

In the accompanying drawing, Figure 1 is a top or face view of a chase having the attachment applied. Fig. 2 is a side view of the same, and Fig. 3 is a transverse section thereof.

Similar letters of reference indicate corresponding parts in all the figures.

A is the chase, which may be of the ordinary or any suitable construction. In those sides that come parallel with the planes of rotation of the cylinder when the chase is in place in the press there are longitudinal grooves *a a*, which receive tongues on sliding blocks B B, which are longitudinally slotted throughout a portion of their length, as shown at *t t* in Fig. 2, for the passage through them of clamping-screws C, which screw into tapped holes in the sides of the chase, and thereby secure the blocks thereto, the slots *t t* providing for the adjustment of the blocks in the chase. D is the lifter, consisting of a bar which is straight for a length equal to the width of the chase, but has its ends bent at right angles to form arms, through which it is pivoted by screws *s s* to the blocks B B. This lifter, which extends across the face of the form, has provided upon its upper side, over the sides of the chase, two projections, *b b*. E is a spring, which is rigidly secured at one end to the top of one of the blocks or carriers B B, so that the other end, which is free, bears against the under side of the lifter D, and exerts a constant tendency to raise or hold it up.

In printing with cylinder-presses, the sheet or card to be printed being only secured to the cylinder at the end which first comes in contact with the form, the other end in passing over the form is apt, especially when the sheet is thick, to drop away from the cylinder and drag over the last line or rear end of the form, and so become slurred. This will be entirely obviated by my invention, as follows: After the form is made up the clamping-screws are loosened, and the blocks B B are adjusted so that the body or main portion of the lifter D extends over that portion of the chase immediately in rear of the last line of type or rear edge of the form, and the form is then placed in the press. As the form passes under the cylinder H, and the cylinder by its rotation brings the rear portion of the sheet over the form, the said portion is received upon the lifter, which extends across the chase and holds the said portion of the sheet up to the cylinder, and prevents it from dragging on the form; and, as the latter continues to move forward, the lifter is depressed by the cylinder so as to pass under it, as seen in Fig. 3. The inking of the operating portion of the lifter is prevented by means of the two projections *b b*, which, being so much higher than the operating portion between them, present themselves in contact with the inking-rollers during the operation of the latter, and so produce the depression of the operating portion of the lifter—that is to say, the portion which acts upon the paper beyond the reach of the inked surface of the rollers.

Claims.

1. A lifter constructed and applied to a chase and operated by a spring, substantially as and for the purpose herein described.
2. The combination of the lifter D, adjustable blocks B B, screws C C, and spring E, the whole arranged upon the chase, and operating substantially as and for the purpose herein set forth.

EDWIN ALLEN.

Witnesses:

FRED. HAYNES,
R. E. RABEAU.