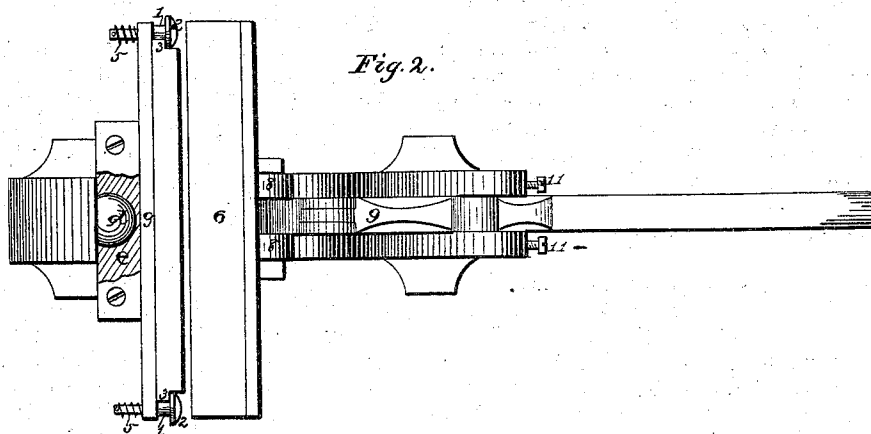
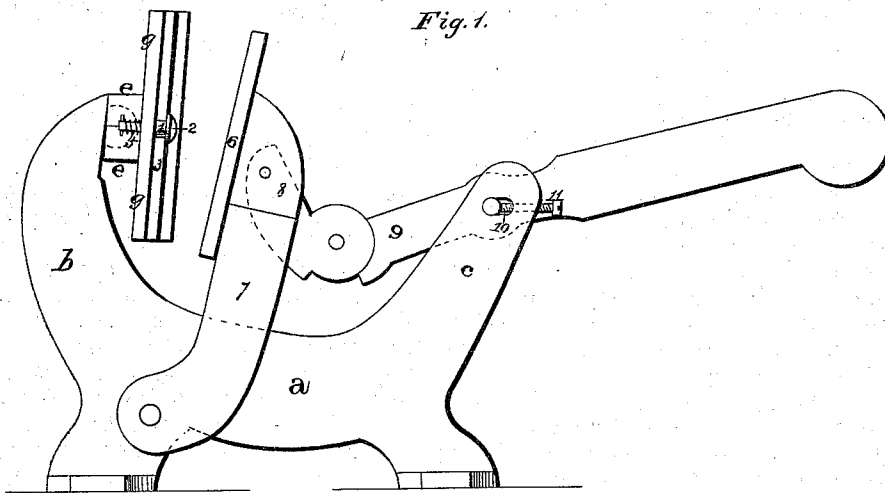


A. E. LAZELL.
Printing-Presses.

No. 149,870.

Patented April 21, 1874.



Witnesses:

Edw. H. H. H.
Wm. H. J. Murphy

Inventor.

A. E. Lazell
per.

F. A. Schuyler, Atty

UNITED STATES PATENT OFFICE.

ALMON E. LAZELL, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO B.
FRANK POMEROY, OF SAME PLACE.

IMPROVEMENT IN PRINTING-PRESSES.

Specification forming part of Letters Patent No. **149,870**, dated April 21, 1874; application filed
March 13, 1874.

To all whom it may concern:

Be it known that I, ALMON E. LAZELL, of West Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Printing-Presses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to an improvement in hand printing-presses; and it consists in attaching the bed to the frame by means of a ball-and-socket joint, so that it can freely adapt itself to any inequality of pressure from the platen. It also consists in two headed spring-pins for securing the chase to the bed-plate. It also consists in a folding lever, the fulcrum of which can be adjusted forward by means of set-screws, so as to bring the platen to a suitable distance from the bed, all of which will be more fully described hereafter.

The accompanying drawing represents my invention.

a represents a suitable frame, from the top of which rise two standards or projections, *b* *c*. On the inner side of the rear standard is formed or attached a ball, *d*, which fits in the socket *e* on the back of the bed-plate *g*, one-half of the said socket being formed with the bed-plate, and the other secured in place by any suitable fastenings. By means of this ball-and-socket joint the bed-plate is allowed a limited movement in any direction, so that it can adjust itself freely to any inequality of pressure from the platen. Passing through the bed-plate, at each end, is a flanged pin, 1,

which is provided with a head, 2, sufficiently large to extend over a flange, 3, formed upon the end of the chase. Around the rear end of this pin is placed a coiled spring, 5, which has sufficient power to hold the chase in any desired position, and yet allow it to be adjusted back and forth at will. The platen 6 is hinged to the frame *a* by means of the long curved arms 7, and to the back of this platen, between the ears 8, is pivoted the short joint of the folding lever 9. The fulcrum of this lever passes through a slot, 10, in the top of the standard *c*, which is slotted vertically, so as to receive the lever, and against this fulcrum-pin or journal there bear two set-screws, 11, which adjust the lever, so that it will always hold the platen at a suitable distance from the bed-plate.

I am aware that a ball-and-socket joint has been applied to hand-stamps, and this use I disclaim. This joint is used in my press, so that as the operating parts wear away and become less and less true in their workings, the bed-plate will adjust itself to them.

Having thus described my invention, I claim—

A hand printing-press composed of the frame *a b c*, having the bed-plate secured thereto by means of a ball-and-socket joint, a spring-pin for holding the chase, the folding lever 9, and platen 6, the parts being arranged for operation substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of March, 1874.

ALMON E. LAZELL.

Witnesses:

COOKE LOUNSBURY,
TRUMAN STILES.