

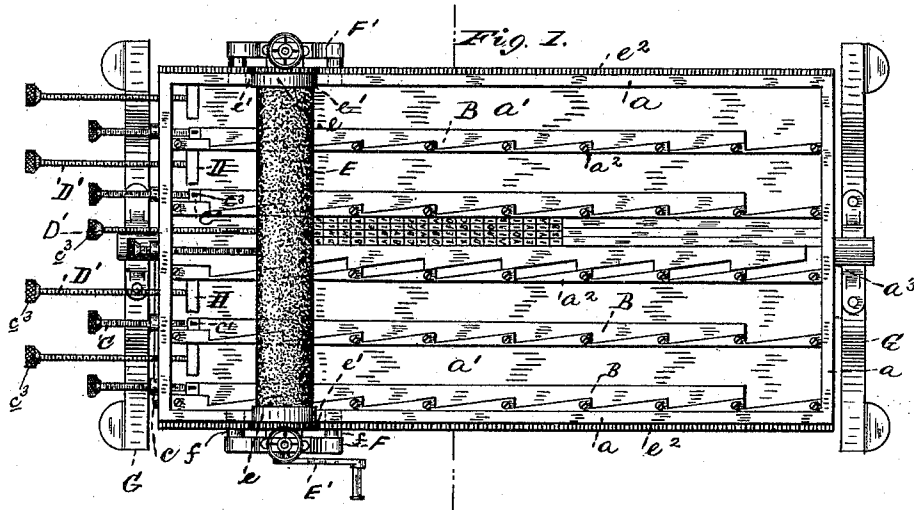
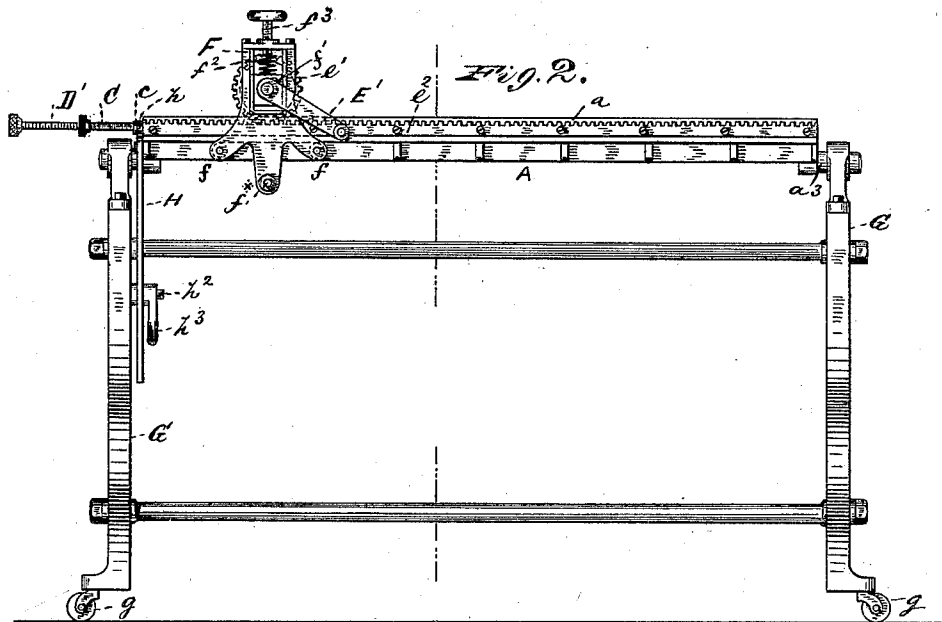
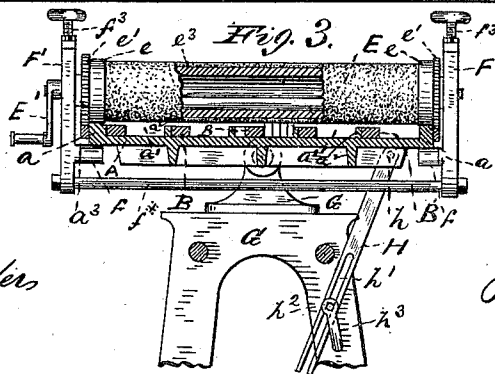
(No Model.)

J. HENRY.

COMBINED MULTIPLE GALLEY AND PROOF PRESS.

No. 358,857.

Patented Mar. 8, 1887.



WITNESSES.

Gabriel J. W. Galster
H. M. Supple.

INVENTOR

John Henry,
By Richard S. Orin
Attorney &

UNITED STATES PATENT OFFICE.

JOHN HENRY, OF NEW YORK, N. Y.

COMBINED MULTIPLE GALLEY AND PROOF-PRESS.

SPECIFICATION forming part of Letters Patent No. 358,857, dated March 8, 1887.

Application filed September 22, 1885. Serial No. 177,853. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY, a citizen of the United States, and a resident of New York, in the county and State of New York, have
5 invented a new and useful Improvement in a Combined Multiple Galley and Proof-Press; and I hereby declare the following to be a full and clear description thereof.

The object of this invention is to provide a
10 printer's galley in such a form that one or several columns of matter may be set up therein at the same time, then locked in the galley as in a chase, and a proof taken from the form so set up, suitable mechanism being attached
15 to the machine for securing an even and perfect proof copy.

The machine has certain mechanisms which permit an easy locking up of the type in it, and also a mechanism for adjusting it to a
20 proper position for an easy distribution of the type therefrom.

The invention will be readily understood by reference to the accompanying drawings, of which—

25 Figure 1 is a general plan of the said combined multiple galley and proof-press. Fig. 2 is a side elevation of the same, and Fig. 3 is a transverse sectional elevation of it.

The bed of the machine consists of a bottom
30 plate, A, which has a marginal rib, *a*, around its outer edge, extending up quadrat high. The top face of the said bed-plate is formed into grooves or galleys *a'* by longitudinal ribs *a''*, cast solidly with it and forming a part of
35 the said bed-plate, or secured firmly to the top of the plate A by any suitable means. These dividing strips or ribs are serrated, as shown in Fig. 1, and serrated sliding strips B are accurately fitted to them, the serrations of one
40 piece, B, lying contiguous to and matching the serrations of the contiguous piece *a''*, so as to act, like a series of quoins, to tighten the type up in the form. The sliding strips or
45 quoin-pieces B are actuated by set-screws C, which are threaded in nut-pieces *c*, fixed to the end part of the perimeter-rib *a*, as shown in Fig. 1, and their inner ends attached, by means of swivel-joints *c'*, with the contiguous ends of their respective quoin-pieces B. The outer
50 ends of the said actuating-screws C terminate in thumb-pieces *c''*, by which the screws are

rotated and the quoin-pieces B moved forward or backward, so as to tighten or release the type in the galley-grooves *a'*. A sliding follower, D, is fitted into the end part of the
55 groove *a'*, and it is actuated forward or backward by a set or adjusting screw, D', of similar construction and operation to the screws C, above described. By means of these screw-followers D the ends of the columns of types
60 in the galleys are tightened up, and the form so locked up is in suitable condition to impart an accurate proof-impression.

The proof-impression is taken by means of an impression-roller, E, which is placed trans-
65 versely across the top of the bed-plate A, and has its opposite ends journaled in their respective sliding pillow-blocks F F'. The opposite ends of the impression-roller E have cylindrical collars *e* located just inside of their
70 respective pillow-blocks, which said collars are adjusted to roll on the side ribs, *a*, as on ways, and there are cogged pinions *e'*, also mounted on the opposite ends, respectively, of the roller E, which said cogged pinions *e'* gear
75 into cogged racks *e''*, lying parallel with and attached to the outer sides of the side ribs, *a*. One end of the said impression-roller is provided with a crank, E', by means of which it is rolled or moved from one end of the bed-
80 plate to the other, making an impression as it moves along over the face of the type held in the galley *a'*. The lower end of each of the said pillow-blocks F F' carries two pressure-rollers or sheaves, *f f*, as shown best in Fig. 2.
85 These rollers bear against the bottom side of the edges of the bed-plate A, and so hold the pillow-blocks and their impression-roller down to the top of the bed-plate, and consequently upon the type, so as to make a clean
90 impression as the said roller is moved forward and backward on its bed. The lower ends of the two pillow-blocks are connected together by a transverse rod or bolt, the end of which is seen at *f** in Fig. 2. In each of
95 the said pillow-blocks F F' there is a sliding follower, *f'*, which forms the bearing-box for the roller E. The said followers are each respectively pressed downward toward the top of the bed-plate A by a spring, *f''*, which is
100 adjusted to the exact pressure required by means of an adjusting-screw, *f'''*, which is

threaded in the top end of the pillow-block and arranged to give as much or as little impression-pressure to the roller E as is required.

In other proof-presses the impression-rollers are covered with a soft blanket, for the reason that the impression is given by the weight of the cylinder. This blanket is sewed around the roller, the sewing forming a seam which is liable to injure the faces of the type and spoil the proof.

According to my invention roller E is turned up true on its periphery, and its periphery is then covered with a blanket or cushion-piece, e^2 , which is preferably formed of vulcanized india-rubber, and its exterior surface then turned up true, so as to make a perfect and even impression on the proof-paper as the said roller is moved over it.

I find in practice that the packing above described not only gives better results in working, but that it is much more durable than any other form of packing. The vulcanized rubber being turned true has no asperities on its surface to injure either the type or the proof, while it yields so little as to give only a surface-proof, thus showing the exact condition of the type to be proved.

The bed-plate A has central trunnions, a^3 , on its opposite ends, which fit into suitable bearings provided for them in the top beam of the supporting-frame G. This construction permits the galley-plate A to tip over on its said trunnions into an inclined or sloping position suitable for distributing the type therefrom. The said galley-plate is held in a level or inclined position, as desired, by means of an adjusting-rod, H, which is pivoted or jointed to the bottom side of the bed-plate by the knuckle-joint h , and it has a slot, h' , in its other end, which permits it to slide up and down on the clamping-bolt h^2 . The said clamping-bolt is provided with a clamping-nut, h^3 , which, when screwed up tightly to the piece or rod H, clamps and holds it in place, and

by this means the said galley-plate A is adjusted and held in any desired position and adapted to operation either as a proof-press or a galley, and for the galley purposes it is readily adjusted so as to receive the type or permit their distribution.

The frame G is mounted on casters g , on which it can easily be moved around from place to place.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the multiple-galley bed-plate, a movable impression-roller arranged to move forward and backward on suitable ways attached to or formed on the sides or edges of the galley-bed plate in such a manner as to roll over the faces of the types in the galleys with a uniform pressure thereon, substantially as shown and set forth.

2. The galley-plate pivoted to its supporting-frame and adapted to be tilted to one side or allowed to remain level, as desired or occasion may require, substantially as shown and set forth.

3. The galley-plate A, provided with trunnions a^3 at its ends, which are mounted in suitable bearings in the supporting-frame G, so as to allow the said galley-plate to stand level or tip to one side into a suitable position for the distribution of the type, and in combination with the oscillating or tipping galley-plate so mounted, an adjusting rod, H, hinged or jointed to the said galley-plate at one of its ends, and at its other end provided with a slot and a clamping-screw for holding the said bed or galley-plate in any desired position, substantially as shown and set forth.

In witness whereof I hereunto set my hand in presence of two witnesses.

JOHN HENRY.

Witnesses:

DANIEL R. GARDEN,
WILLIAM E. RICHARDS.