

M. McCABE.
Printer's Galley.

No. 209,497.

Patented Oct. 29, 1878.

Fig. 1.

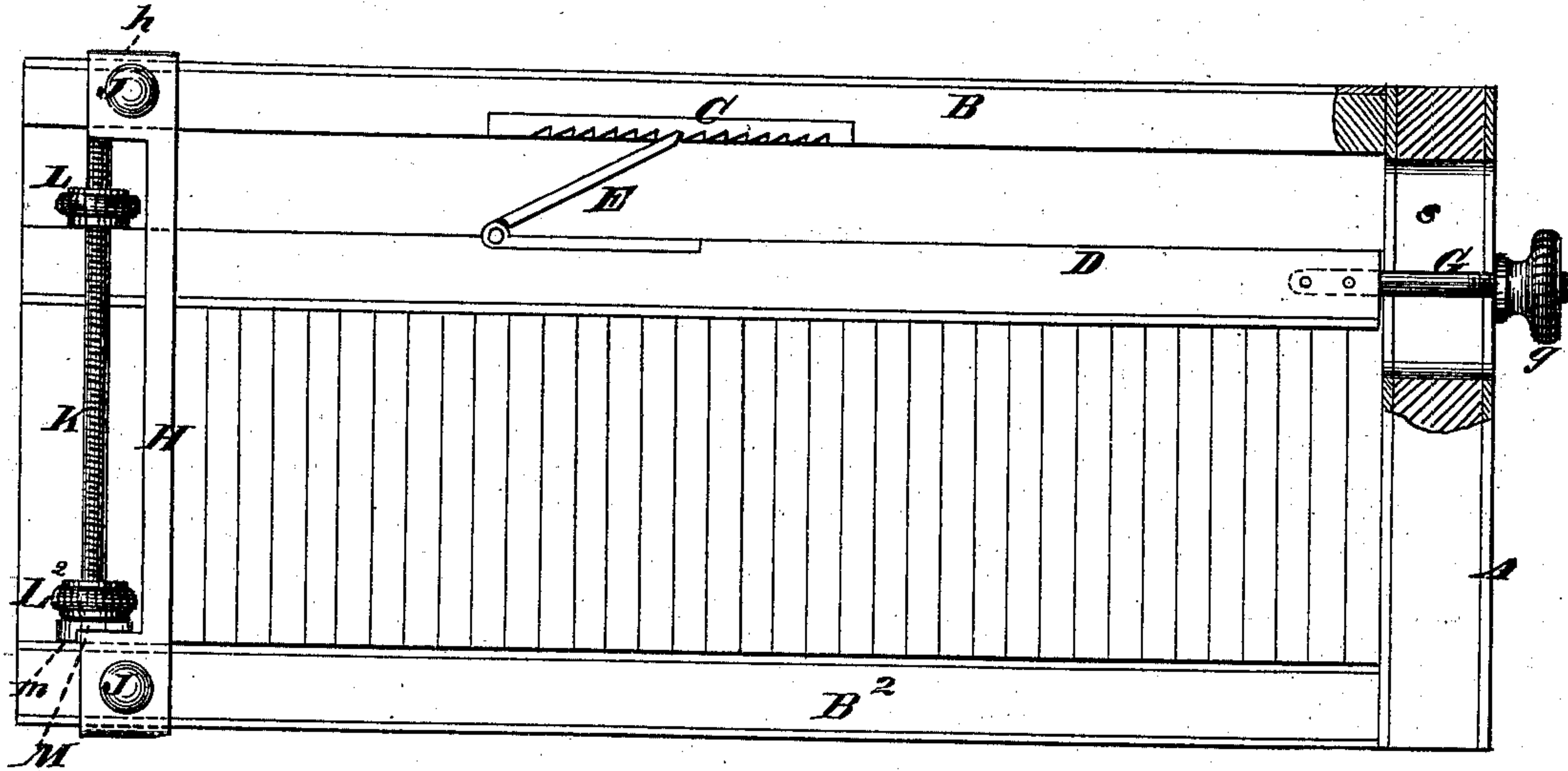


Fig. 2.

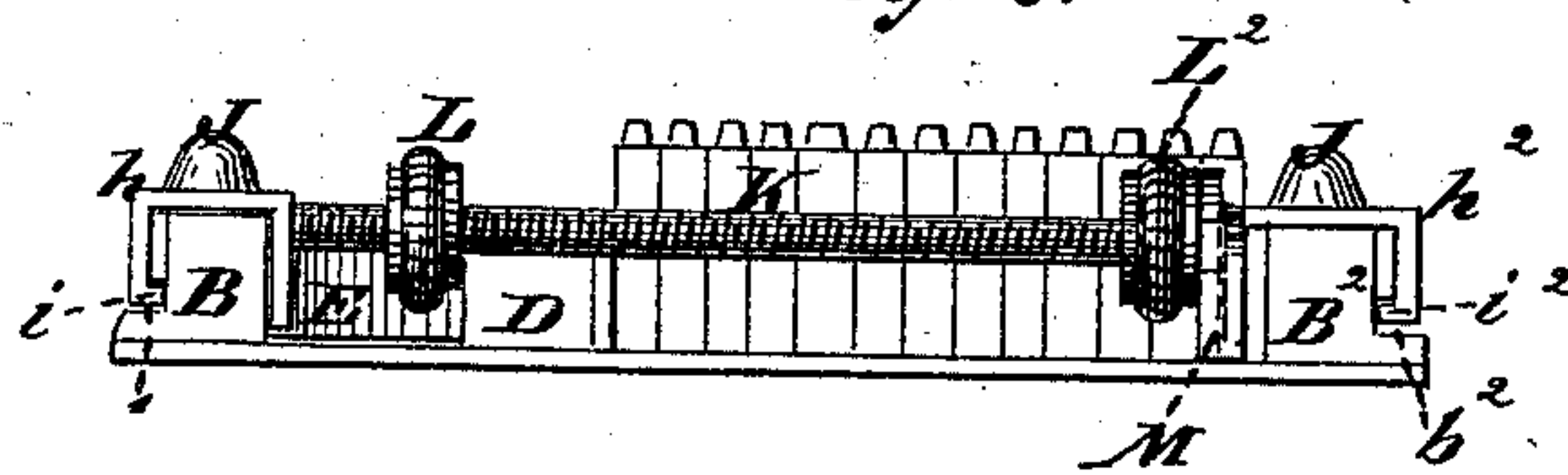
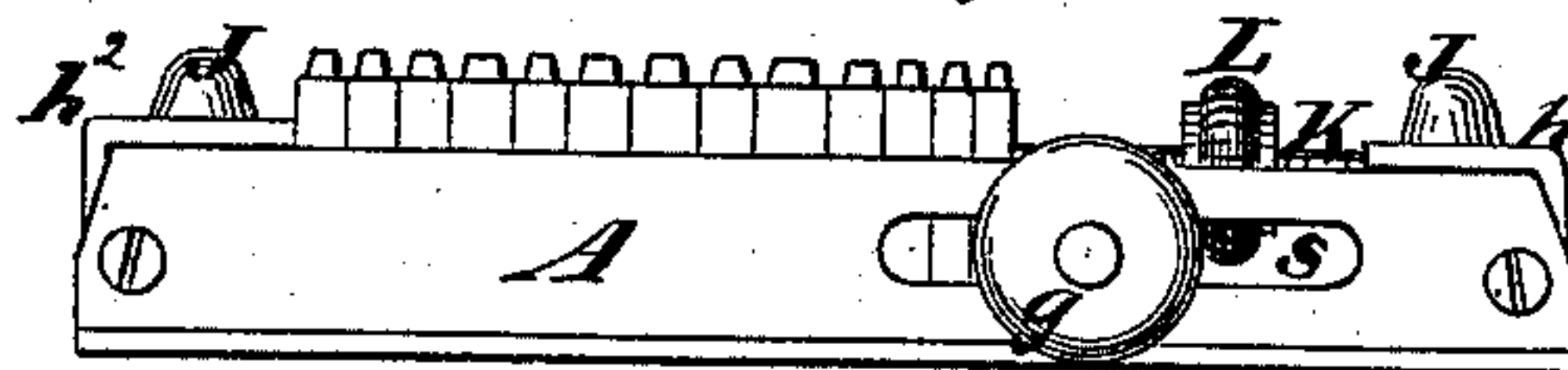


Fig. 3.



Witnesses
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MATTHEW McCABE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN PRINTERS' GALLEYS.

Specification forming part of Letters Patent No. 209,497, dated October 29, 1878; application filed September 6, 1878.

To all whom it may concern:

Be it known that I, MATTHEW McCABE, of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Printers' Galleys; and that the following is a full, clear, and exact description thereof.

The invention consists in a combination of a longitudinally and laterally-moving side-stick, an adjusting-screw attached to said stick, a ratchet attached to one of the rails of the galley, and a hinged pawl or brace attached to the side-stick with a slotted head-piece and the side rails of the galley-frame, whereby the same adjustment of the side-stick operates to draw the lines of the type together, as well as to move the type laterally.

The invention also consists in a certain combination, with the galley-frame, with the side-stick, and with a slug or foot-stick of peculiar construction, of a screw-rod and nuts arranged within the galley-frame, to assist in tightening up the type both longitudinally and laterally within the galley-frame, free from projection of the adjusting devices outside the rails of said frame.

In the accompanying drawing, Figure 1 represents a top view, partly in section, of a galley provided with my improvements. Fig. 2 is an end view of the foot of the galley. Fig. 3 is an end view of the head of the galley.

A represents the head-piece, and B B² the side rails of the galley-frame. C is a ratchet-toothed metallic plate set into the inner surface of the side rail B. There may be any suitable number of these ratchet-plates.

D is the side-stick. E is a pawl, pivoted to the side-stick. It is here shown as resembling a two-leaved hinge, with one leaf rigidly secured to the side-stick D, and the other leaf engaging like a pawl with the ratchet-plate C.

There may be any suitable number of pawls corresponding with the number of ratchet-plates C, and arranged opposite the same, as shown.

G is a screw, provided with a thumb-nut, *g*. Said screw passes transversely through a slot, *s*, in the head-piece A of the galley-frame, and is attached at its inner end to the side-stick D.

The column of type being in place on the galley, the side-stick D is pressed closely

against it, and the pawl E is engaged with one of the teeth of the ratchet C. The nut *g* of the screw G is then turned in a direction to tighten it against the head-piece A, and the side-stick D is drawn longitudinally toward the head-piece. The pawl E having been first arranged diagonally toward the head of the galley, the drawing of the side-stick longitudinally in the same direction has the effect of bringing said pawl more toward a direct transverse position, causing it to bear harder against the side-stick and press it against the side of the column of type, and thus lock it securely.

The sliding slug or foot-stick consists of a bar, H, the ends of which terminate in two plates, *h h*², bent to fit around three sides of the rails of the galley-frame, and having their ends turned inward to form tongues *i i*², for engagement with grooves *b b*² in the outer surfaces of said side rails B B². (See Fig. 2.) By this means the slug or foot-stick may be made to slide with a parallel motion, and may be pressed up against the foot of the column of type in the galley. On the upper sides of the plates *h h*² are bosses J J, for facilitating the moving of the slug.

A screw-rod, K, has its ends rigidly attached to the inner surfaces of the two plates *h h*², so as to lie parallel with the slug H. On this screw-rod work two milled nuts, L L², one of which is arranged to bear against the outer surface of the side-stick D, and the other is located near the rail B² of the galley-frame. Between the latter nut, L², and its contiguous plate *h*² is interposed a washer-plate, M, having a shoulder, *m*, on the side toward the plate *h*², so as to bear against said plate both laterally and in a direction parallel with the length of the galley. By turning the nuts L L² in one direction the nut L bears against the outer surface of the side-stick D, and thus assists in tightening it near the foot of the column, and it also securely holds in place the end of the slug H nearest to which it is located, while at the same time the nut L² bears against the washer-plate M, pressing it against the plate *h*², and holding the other end of the slug H firmly in place.

It is preferred to make the thread on the screw-rod K a left handed one, so that when the galley is held by the compositor up against

his chest, and the nuts $L L^2$ are turned, with their upper surfaces moving toward him, such operation of the nuts will have a tendency to tighten or force up the slug against the foot of the column instead of to loosen it, as would be the case with a right-hand threaded screw, requiring the upper surface of the nuts, which is the surface the compositor works, to move away from him.

From this description it will be seen that the attachment of the slug or foot-piece to the galley, as described, not only provides for tightening up the lines of the type, but also for tightening up the type laterally in the galley; also, that the nuts $L L^2$, being within the galley-frame and not exterior to its rails, two or more galleys may be placed close up against each other side to side. Furthermore, it will be seen that the side-stick D , in being tightened up, not only moves laterally, but also longitudinally, and that in moving longitudinally it has a tendency to draw the lines of the type together. To obtain this double motion of the side-stick it is necessary that the ratchet-plate C should be a fixed one or attached to the rail B .

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

1. In a printer's galley, the combination of a longitudinally and laterally moving side-stick, an adjusting-screw attached to said side-stick, a ratchet attached to one of the rails of the galley, and a hinged or pivoted pawl attached to the side-stick, with the slotted head-piece and the side rails of the galley-frame, substantially as and for the purposes herein described.

2. The combination, with the side rails of the galley-frame, with the side-stick of the galley, and with a slug or foot-stick provided with plates partly surrounding said side rails and having tongues engaging with grooves therein, of a screw-rod and nuts arranged within the galley-frame on opposite sides of the latter, for tightening up the type both longitudinally and laterally within the galley-frame, essentially as described.

MATTHEW McCABE.

Witnesses:

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