

S. C. LAME & F. S. BRIGGS.

Printers' Quoins.

No. 148,308.

Patented March 10, 1874.

FIG. 1.

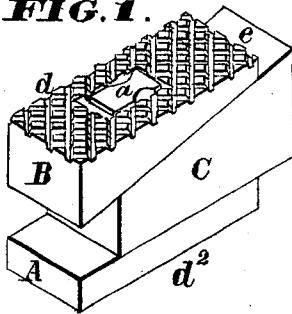


FIG. 2.

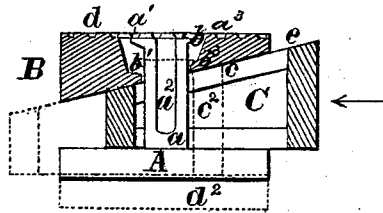


FIG. 3.

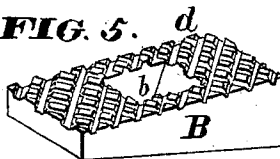


FIG. 4.

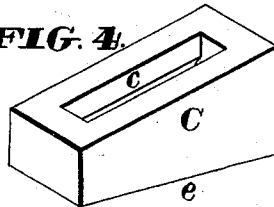
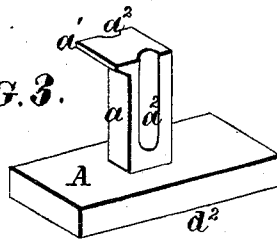


FIG. 5.



WITNESSES

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SAMUEL C. LAME AND FERDINAND S. BRIGGS, OF SMITHVILLE, N. J.

IMPROVEMENT IN PRINTERS' QUOINS.

Specification forming part of Letters Patent No. 148,308, dated March 10, 1874; application filed February 7, 1874.

To all whom it may concern:

Be it known that we, SAMUEL C. LAME and FERDINAND SHERWIN BRIGGS, both of Smithville, in the county of Burlington and State of New Jersey, have jointly invented a new and useful Improvement in Printers' Quoins, of which the following is a specification:

This invention relates to printers' quoins, expanded by means of wedges; and consists in a cheap and simple metallic quoin having its parts inseparably united, its side-pieces supported so as to admit of no separate longitudinal movement, and one or both of its faces roughened to preclude lateral slipping. The quoin is applied with ease and rapidity, and operates with superior efficiency. Displacement of the parts being prevented, the point of bearing or lock-up is automatically retained with precision during the tightening or locking operation.

Figure 1 is a perspective view of this improved quoin, in contracted condition. Fig. 2 is a side or plan view of the same, partly in longitudinal section, illustrating its operation. Fig. 3, Fig. 4, and Fig. 5 are perspective views of the three parts of which the quoin is composed, showing the same separately.

This improved quoin may be made of iron or other suitable metal by casting its parts, which are adapted to be cast of complete form, the rubbing faces and outer smooth faces only requiring to be planed or filed.

The device is composed of a pair of side-pieces, A B, Figs. 3 and 5, and a single wedge, C, Fig. 4, united as represented in Figs. 1 and 2. The side-piece A is cast in rectangular form, with a solid central bar or post, *a*, thereon, at right angles, and the bar *a* is provided with a locking projection or lip, *a*¹, at its outer end, and with longitudinal grooves, *a*², in its sides, to displace surplus metal and to lessen its frictional surface. The side-piece B is cast with a cored central orifice, *b*, enlarged at its outer end to receive the locking projections, which perform their function in combination with lips *b*¹ *b*³ at the inner end of the orifice. The enlargement of the orifice serves also to permit the parts to oscillate slightly so as to

accommodate themselves to seats. This side-piece B is also preferably cast with its outer face *d* kerfed or roughened to preclude slipping, and the outer face *d*² of the side-piece A may be correspondingly roughened, if preferred. The wedge C is cast with a cored longitudinal slot, *c*, through which the bar *a* is passed, its walls being recessed, as represented at *c*², to reduce the weight and friction of the wedge. The wedge has a single incline, *e*, to which the inner face of the side-piece B is conformed, as represented, so that the outer faces *d* *d*² of the finished quoin are parallel. The parts are put together by first applying the wedge C to the bar *a*, and then, with the wedge in the retracted position represented in Fig. 1, introducing first the projection *a*¹ and the whole end of the bar *a* into the aperture *b* of the side-piece B. Then the end of the bar *a* opposite the projection is slightly headed by hammering, as represented at *a*³, Fig. 2, to secure the parts against separation, such separation never being required in use. In applying the quoin, the wedge C is retracted, as represented in Fig. 1, and in full lines in Fig. 2. The quoin is then applied in contracted condition, and the blocking up of the form is completed. The wedge is then driven in the direction of the arrow, Fig. 2, until the required degree of lock-up is effected, the parts moving relatively to each other as indicated by dotted lines. The quoin is instantly released by striking the small end of the wedge, which usually projects more or less in the locked condition of the quoin.

The following is claimed as new, namely:

The improved quoin composed of a side-piece, A, having a stem, *a*, with locking projection *a*¹, a wedge, C, having a longitudinal slot, *c*, and a second side-piece, B, having a corresponding orifice, *b*, with locking-lip *b*¹, with or without roughened outer faces *d*, one or more, substantially as herein described, for the purpose specified.

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Witnesses:

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