

(No Model.)

DE WITT C. BREED.
PRINTER'S QUOIN.

No. 522,504.

Patented July 3, 1894.

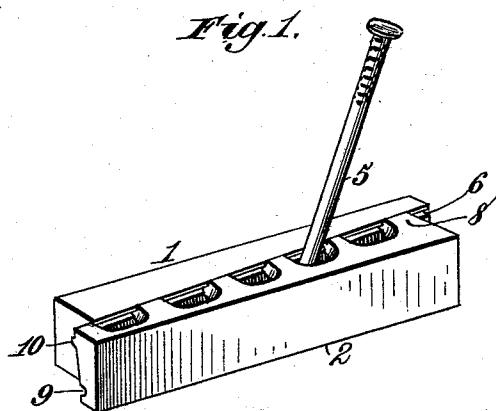


Fig. 2.

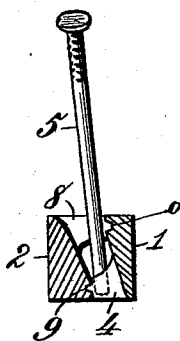


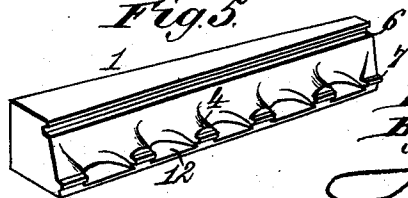
Fig. 3.



Fig. 4.



Fig. 5.



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UNITED STATES PATENT OFFICE.

DE WITT C. BREED, OF MEDINA, NEW YORK.

PRINTER'S QUOIN.

SPECIFICATION forming part of Letters Patent No. 522,504, dated July 3, 1894.

Application filed December 6, 1893. Serial No. 492,955. (No model.)

To all whom it may concern:

Be it known that I, DE WITT C. BREED, a citizen of the United States, residing at Medina, in the county of Orleans and State of New York, have invented new and useful Improvements in Printers' Quoins, of which the following is a specification.

This invention has for its object to provide a new and improved quoin comprising two wedge-shaped sections which can be moved in opposite directions to lock up or tighten the form through the medium of a lever composed of an ordinary nail, wire or rod, in contradistinction to a pinion or toothed head specially constructed to engage racks or teeth on the inner edges of the quoin sections, which is disadvantageous or objectionable, in that the pinion or toothed head is frequently lost or mislaid, and therefore the quoin cannot be properly operated.

To accomplish this object the invention consists essentially in a quoin composed of two wedge-shaped sections, one having notches along its bottom portion to receive the end of a nail, wire or rod, and the other having separated lugs along its upper portion to constitute fulcrums for the nail, wire or rod, whereby the wedge-shaped sections can be quickly adjusted or moved lengthwise by a swinging motion of the nail, wire or rod.

The invention is illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of the improved quoin, showing the nail, wire or rod in position for adjusting the quoin. Fig. 2 is a cross sectional view to show the manner in which the nail, wire or rod engages the notches and lugs of the quoin sections. Fig. 3 is a detail perspective view of the section having the fulcrum lugs. Fig. 4 is a similar view of the section having the notches to receive the end of the nail, wire or rod. Fig. 5 is a detail perspective view of a wedge-shaped section, showing a modification of the invention.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numerals 1 and 2 indicate the two wedge-shaped sections composing the improved quoin. The section 1 is provided along the bottom edge portion of its inner

side with a series of notches 3, preferably formed by constructing the wedge-shaped section with a series of separated lateral projections 4, in such manner that one end portion of a nail, wire or rod 5, or similar device, can be engaged with any one of the notches. The inner side of the upper edge portion of the wedge-shaped section 1 is provided with a longitudinal guide-groove or channel 6, preferably V-shaped in cross section, and each one of the lateral projections 4 is constructed with a guide-rib 7. The wedge-shaped section 2 is provided at the inner side of its upper edge portion with a series of separated laterally projecting lugs 8, and at the inner side of its lower edge portion with a longitudinal groove or channel 9. The lugs 8 are each provided with a guide-rib 10, all in such manner that when the two wedge-shaped sections are placed together in proper working position, the guide-ribs 7 enter the guide-groove or channel 9, and the guide-ribs 10 enter the guide-groove or channel 6. By this means the wedge sections are properly guided in their longitudinal movements, and it is impossible for either wedge section to twist laterally or move in any manner out of proper relative position to the other wedge section.

The laterally projecting lugs 8 overhang the notched portions 3, and if a nail, wire or rod 5, or similar device, be inserted between the lugs 8, and its extremities engaged with one of the notches 3, it is possible to impart a quick and wide range of adjustment to the quoin by simply swinging the nail, wire or rod in the direction of the length of the quoin. In this operation the nail, wire or rod bears against one of the lugs 8, which constitutes a fulcrum therefor, and, consequently, it is possible to simultaneously shift or move the wedge sections in opposite directions, for the purpose of locking up or tightening a form in a printer's chase.

By my improved quoin I do not require a specially constructed device to operate the same, but am enabled to employ any ordinary nail, wire or rod, or similar instrument, whereby the disadvantages or objections, incident to prior quoins operated by racks and pinions, are avoided, and the quoin is susceptible of being more economically manufactured, and its operation is materially simplified.

In the modification, Fig. 5, the wedge-shaped section 1 is constructed in all respects the same as described with reference to the remaining figures, and similar reference numerals indicate corresponding parts; but in the modified construction a guard or shield 12 is employed to close the bottoms of the notches 3, and thereby prevent the extremity of the nail, wire or rod 5 from coming in contact with the printer's chase, so that the action of the nail, wire, or rod is not likely to scratch or damage the chase.

The construction of the wedge sections is such that a wide range of adjustment is quickly effected by a comparatively small movement of the nail, wire, or rod 5, or similar device used to engage the fulcrum lugs and notches.

Having thus described my invention, what I claim is—

1. A quoin, consisting of two wedge-shaped sections, one having notches to receive the end of a nail, wire or rod, and the other having separated lugs to constitute fulcrums for the nail, wire or rod, whereby the quoin can be adjusted by a swinging motion of the nail, wire or rod, substantially as described.

2. A quoin, consisting of two wedge sections,

one having notches along the inner side of its bottom portion to receive the end of a nail, wire or rod, and the other having separated laterally projecting lugs along the inner side of its upper portion which overhang or extend over the said notches and constitute fulcrums for the nail, wire or rod, substantially as described.

3. A quoin, consisting of two wedge-shaped sections, one provided with the guide-groove 6 and lugs 4 having guide-ribs 7, and the other provided with the guide-groove 9 and lugs 8 having guide-ribs 10, substantially as and for the purpose described.

4. A quoin, consisting of two wedge-shaped sections, one having notches 3 along its bottom portion and a shield 12 closing the bases of the notches, and the other section having separated lugs 8 which constitute fulcrums for a nail, wire or rod engaged with the said notches, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

DE WITT C. BREED.

Witnesses:

IRVING L'HOMMEDIEU,
HOWARD B. SEELEY.