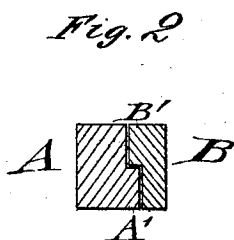
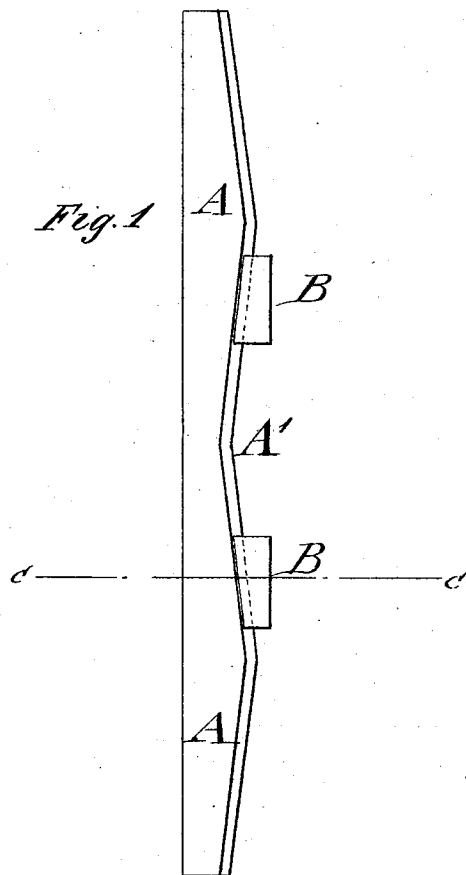


F. KEEHN.

Printers' Sidesticks and Quoins.

No. 145,574.

Patented Dec. 16, 1873.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANCIS KEEHN, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN PRINTERS' SIDE-STICKS AND QUOINS.

Specification forming part of Letters Patent No. **145,574**, dated December 16, 1873; application filed November 8, 1873.

To all whom it may concern:

Be it known that I, FRANCIS KEEHN, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Printers' Side-Sticks and Quoins, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my improved side-sticks and quoins for locking printers' forms; and Fig. 2 a vertical transverse section of the same on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to furnish, for the use of printers, an improved side-stick and quoins, by which the forms may be easily set without injuring the imposing-stone, and firmly retained during the printing process. My invention consists in constructing the side-stick with wedge-shaped sections, which are wider at the base, forming a projecting step, along which the wedge-shaped quoins, with a similarly-projecting top step, are guided, so as to confine the type in the chase.

In the drawing, A represents the side-stick, and B the quoins, which are either made of malleable iron, or cut from bar-iron with rotary cutters, or pressed in suitable dies, as may be found most convenient. The side-stick A is made of alternately wedge-shaped sections, as indicated in Fig. 1, and produced with

a wider base, which projects, in the shape of a step, A', about midway on the outer side of the same. The quoins B are also produced in wedge-shape, of suitable size, with a top projecting step, B', which is placed on step A', and driven along the same to lock the types in the chase.

The shape of the steps, and the width of side-stick and quoins, correspond exactly in size, so that the quoins may be firmly driven in position on the side-stick without injuring the imposing-stone. The quoins are even with the top of the side-stick, and allow the side-stick to be made of the same height as the chase. The wedge shape of side-stick and quoins admits the rapid locking and separating of the type, and the rigid retention of the same during printing.

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

1. A printer's side-stick, produced with alternating wedge-shaped sections and projecting base-step, substantially as described.

2. A quoin for locking the side-stick to the forms, being of equal height with the side-stick, and of wedge shape, with a projecting top step, as specified.

FRANCIS KEEHN.

Witnesses:

NATH. PERELES,

THOS. JEFFERSON PERELES.