(No Model.)

F. J. BANCROFT.

CLAMP.

No. 324,803. Patented Aug. 25, 1885.

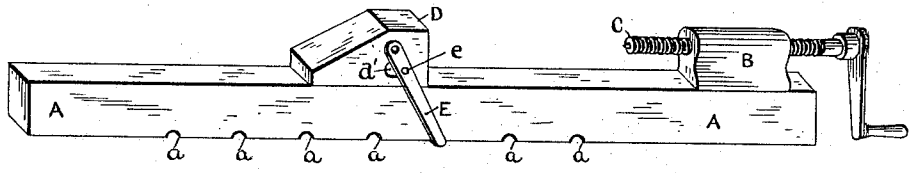


FIG. 1.

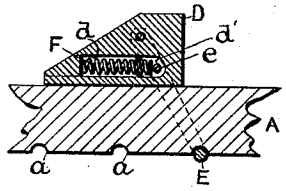


FIG. 2.

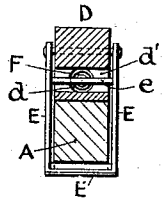


FIG. 3.

WITNESSES.

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UNITED STATES PATENT OFFICE.

FREDRIC JOHN BANCROFT, OF PAWTUCKET, RHODE ISLAND.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 324,803, dated August 25, 1885.

Application filed February 26, 1885. (No model.)

To all whom it may concern:

Be it known that I, FREDRIC J. BANCROFT, of Pawtucket, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Clamps; and I do hereby declare the following specification, taken in connection with the accompanying drawings, forming a part of the same, to be a description thereof.

This invention relates to a clamp for the use of cabinet-makers, piano-makers, carpenters, &c.; and it consists in providing the tail-block of the clamp with a spring located within and protected by the block, which spring operates upon the clamp-iron pivoted to said block, to hold the iron in the grooves on the bar of the clamp, and the said block in proper position thereon, as will hereinafter appear.

In the accompanying drawings, Figure 1 represents in perspective a clamp embodying the invention. Fig. 2 shows a longitudinal section of the tail-block and a portion of the bar. Fig. 3 represents a transverse section of the same.

A is the bar of the clamp, which is provided on its under side with the usual series of grooves, *a*, and at one end with a head-block, B, furnished with a clamp-screw, C. D is the tail-block, to which is pivoted the clamp-iron E. This iron passes down the sides of the bar A and under the same, to engage the grooves *a*.

F is a spiral spring, which is located within a cavity, *d*, in the tail-block, and bears at one end upon said block, and at the other end upon a pin or cross-bar, *e*, passing through a transverse slot or hole, *d'*, in the tail-block, and secured at its ends to the arms of the clamp-iron E below the pivoted points of said iron.

The pressure of the spring F upon the clamp-iron and the tail-block holds the former in the grooves *a* and retains the latter in position on the bar under all circumstances, so that when the clamp is used the block and iron need not be held in position by hand, as is necessary in clamps of ordinary construction.

The spring F, being located within the tail-block, is protected from damage, is not in the way of the workman, and cannot become fouled with glue, as would be liable to be the case were it located exteriorly upon the block.

What I claim, and desire to secure by Letters Patent, is—

1. The improved clamp herein described, consisting of the grooved bar A, head block B, clamp-screw C, tail-block D, pivoted clamp-iron E, and spring F, located within and protected by the tail-block, and bearing upon the same and upon the clamp-iron, to hold them in position upon the bar, substantially as set forth.

2. The combination of the tail-block D, having a spring-cavity, *d*, and transverse slot or hole *d'*, the pivoted clamp-iron E, provided with a pin or cross-bar *e*, and the spring F, located within and protected by the tail-block, and bearing upon the same and the clamp-iron, substantially as and for the purposes specified.

FREDRIC JOHN BANCROFT.

Witnesses:

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GEO. W. CADY.