

(No Model.)

A. C. LYON.

PIN SECURER FOR PIANO HAMMERS AND JACKS.

No. 418,527.

Patented Dec. 31, 1889.

Fig-1.

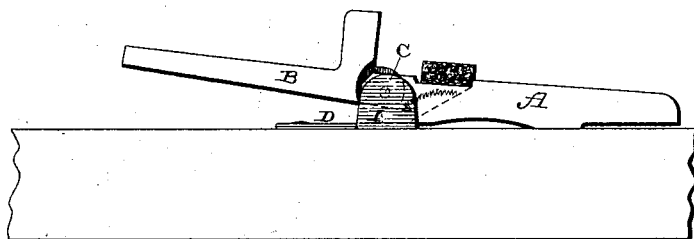


Fig-2.

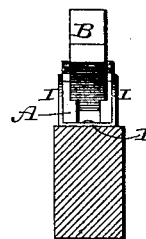


Fig-3.

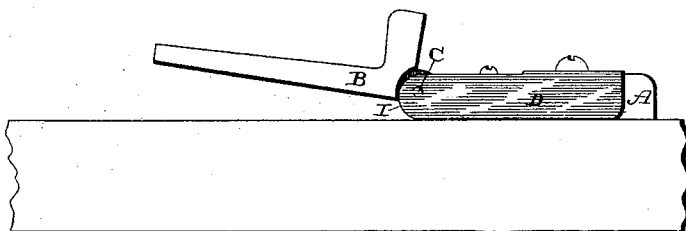
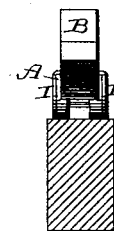


Fig-4.



Witnesses:

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# UNITED STATES PATENT OFFICE.

AUGUSTUS C. LYON, OF McKEESPORT, PENNSYLVANIA.

## PIN-SECURER FOR PIANO HAMMERS AND JACKS.

SPECIFICATION forming part of Letters Patent No. 418,527, dated December 31, 1889.

Application filed August 29, 1889. Serial No. 322,306. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUSTUS C. LYON, of McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Pin-Securers for Piano Hammers and Jacks or Hoppers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in pin-securers for piano hammers and jacks or hoppers; and it consists in the combination, with the pin-blocks for the hammers and jacks, of sheet-metal plates provided with ears which catch upon opposite sides of the blocks where the pivotal pins pass through, as will be more fully described hereinafter.

The object of my invention is to provide a means by which the pivotal pins of the hammers and jacks can be prevented from working out, and thus causing much trouble, annoyance, and expense.

Figure 1 represents a side elevation of one form of a pin-block. Fig. 2 is a front view of the same. Fig. 3 is a side elevation of another form. Fig. 4 is an edge view of the same.

A represents a pin-block, of any desired shape, form, size, or construction, that may be preferred, and to which the jack B is pivoted. The pivotal pin C, which passes through the end of the pin-block and the hammer and jack in pianos of all kinds, is constantly work-

ing out, and hence causing much loss of time, trouble, and annoyance. In order to prevent this I take a thin sheet-metal plate D, of any suitable shape or description, and attach it either directly to the block, as shown in Fig. 3, or to the piece upon which the block is secured, and then turn the ears I upon the plate against opposite sides of the end of the block where the pivotal pin passes through, so as to hold the pin in position and prevent it from having the slightest endwise movement in either direction. These plates serve as locks and render it impossible for the pins to become displaced until the plates are removed. These plates are very cheap, can be made of any shape desired, and require but little time for their application. In pianos where the upper hammer-blocks are too close to admit of a double-sided plate a single plate can be substituted to answer the same purpose.

I claim my invention to be applicable to grand, square, and upright pianos of all makes.

Having thus described my invention I claim—

In a piano-movement, the combination, with the pin-block, to which is pivoted a hammer or a jack, of a locking-plate which is applied to both sides of the block, so as to prevent any endwise movement of the pivotal pin, substantially as shown.

In testimony whereof I affix my signature in presence of two witnesses.

AUGUSTUS C. LYON.

Witnesses:

JNO. W. ALBY,

HENRY W. DE LONG.