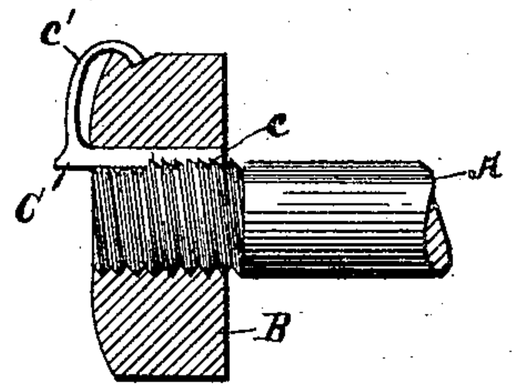
(No Model.)

J. H. HUBER & G. M. ERVIN.

NUT LOCK.

No. 484,204. Patented Oct. 11, 1892.

Fig. 1.



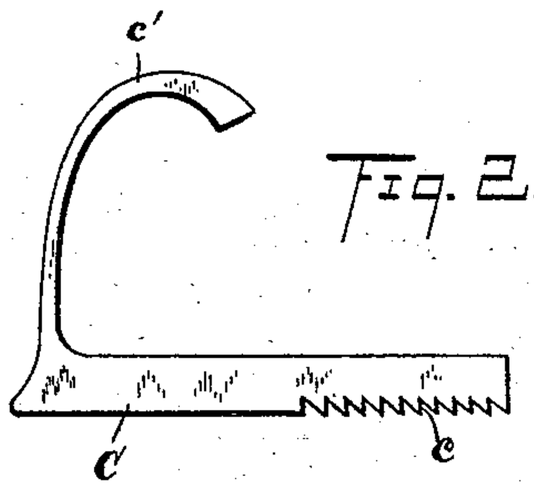


Fig. 2.

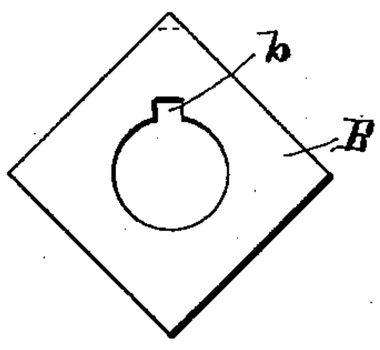


Fig. 3.

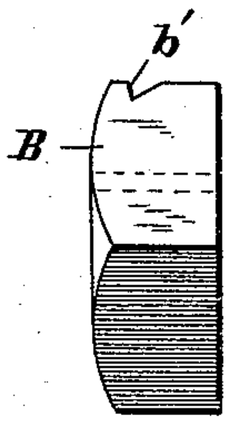


Fig. 4.

WITNESSES.

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NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 484,204, dated October 11, 1892.

Application filed April 18, 1892. Serial No. 429,623. (No model.)

To all whom it may concern:

Be it known that we, JOHN H. HUBER and GEORGE M. ERVIN, citizens of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented a new and useful Nut-Lock; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it pertains to make and use the same.

The object of our invention is to provide a cheap and effective nut-lock by means of an internal key-seat in the nut and a key for the same, such key having teeth for cutting a seat in the screw-threads of the bolt, the key having also an elastic finger for engaging an external projection or depression of the nut to hold the key from backing.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, of a nut-lock embodying our invention. Fig. 2 is an enlarged side elevation of the key detached. Figs. 3 and 4 are respectively end and side elevations of the nut.

A represents the bolt, B the nut, and C the key. The bolt and nut are screw-threaded in the usual manner, and the nut is provided with a key-seat, as at *b*, and with an external projection or depression, usually a notch, as at *b'*, punched or cut out of the corner of the nut that is next adjacent the key-seat aforesaid.

Key C is provided with teeth, as at *c*, and with an elastic locking-finger *c'*. The teeth *c* may be quite small—in fact, are usually about like the teeth of a coarse file. In driving the key home the teeth thereof cut a slight seat in apices of the screw-threads of the bolt, about such as might be cut by one stroke of a file applied with considerable pressure. As the face of the key bearing the teeth is square, edged the seat cut thereby has correspondingly-square corners, and hence it requires but a slight seat for the key to prevent the nut from turning. In driving in the key, whereby is effected the cutting of the seat for the key, a clean cut is made, as with a file or milling-tool, during which the threads of the bolt are, of course, supported on either side and next adjacent the cutting, so that the threads of the bolt are not distorted or materially injured in the operation. The free end of the locking-finger *c'* by engaging notch *b'* of the nut holds the key from backing. By inserting a pointed tool between the end of the nut and finger *c'* the latter may be snubbed back and disengaged from the notch, and the same movement of the tool will back out the key. The key may be used over and over, as the nut from time to time is turned more or less in tightening the nut. Keys C, suitable for carriage work, would be tiny affairs, hardly noticeable, and hence would not disfigure the work. By means of suitable dies and machinery these keys may be cut from sheet or thin plate steel with about the same facility as nails are cut, and hence the initial cost of these keys are trifling and when applied as aforesaid will be found effective locks for nuts.

What we claim is—

A nut-lock comprising a nut having an internal key-seat extending lengthwise thereof, such nut having an external notch or depression, a key constructed to fit such key-seat, such key having teeth for cutting a key-seat in the opposing screw-threads of the bolt lengthwise the latter, such key having also an elastic locking-finger for engaging the external notch or depression of the nut, substantially as and for the purpose set forth.

JOHN H. HUBER.
GEORGE M. ERVIN.

Witnesses:
WM. A. DONALDSON,
W. H. MOORE.