

F. W. Smith, Jr.,

Lock Key.

No. 87,518.

Patented Mar. 2, 1869.

Fig. 1

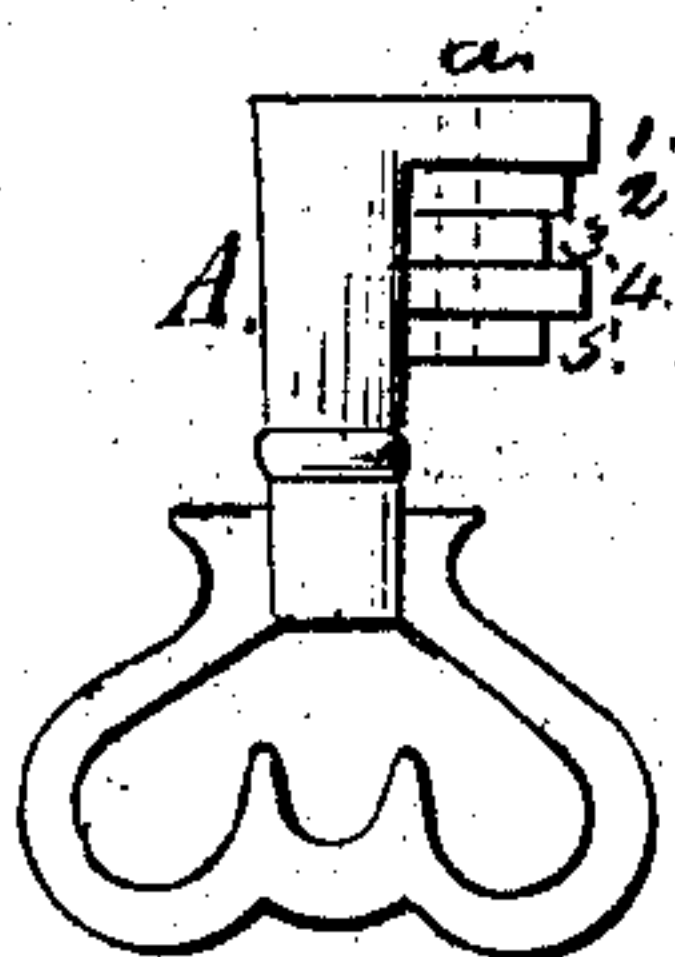


Fig. 2.

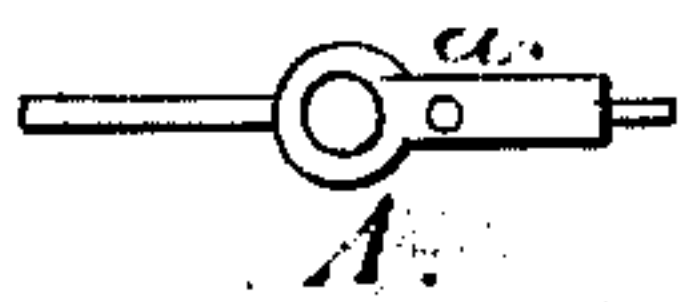
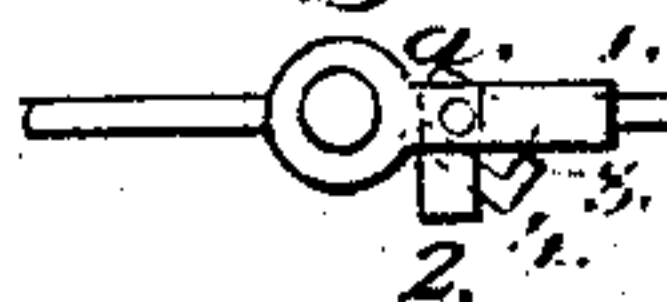


Fig. 3.



WITNESSES:

J. H. Thompson.
A. J. Dittz.

INVENTOR:

F. W. Smith Jr.

United States Patent Office.

F. W. SMITH, JR., OF BRIDGEPORT, CONNECTICUT.

Letters Patent No. 87,518, dated March 2, 1869.

IMPROVEMENT IN KEYS FOR LOCKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, F. W. SMITH, Jr., of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new Improvement in Lock-Key; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view;

Figure 2, an end view with the bits all in line; and in

Figure 3, the same, with the bits turned to the operating-position.

This invention relates to an improvement in keys for locks, which are constructed with several tumblers or levers, the object being to prevent the taking of an impression of the key; and consists in dividing the bit into several parts, one for each of the tumblers, and all pivoted so as to be turned from the same line to different positions, and in those different positions they are in the proper position for operating the levers, and are so turned by the levers themselves, the bits all being in line when the key is inserted into the lock.

In order to the clear understanding of my invention, I will fully describe the same, as illustrated in the accompanying drawings.

A is the barrel of the key, of common construction.

1, 2, 3, 4, 5, several bits, which are usually made all in one piece, but graduated in length, so as to properly operate the levers.

From a key so constructed, it is a very simple and easy matter to take an impression, and produce a key which will operate the lock as perfectly as the original.

To avoid this, I make the several bits, intermediate between the two outer bits, in separate parts, all pivoted to the outer bit, at *a*, so as to turn from their position in line to different positions, as seen in fig. 3, a bearing being formed between the bits and barrel of the key, so that each bit will be arrested when turned to its proper position.

The key, with the bits all in line, as in fig. 3, is inserted into the lock, and turned in the usual manner. The several bits striking their respective levers, are turned until they come to a bearing, and when they are so turned, they each operate to move their respective levers, so as to permit the movement of the bolt by the further turning of the key, and in the return of the key to the key-hole, the several bits are returned to their proper position, so that the key may be removed, the key-hole being of the common form; therefore, a key constructed with the bits in the requisite position could not be inserted into the key-hole.

I am aware of the patent of Linus Yale, Jr., of July 12, 1853, and do not wish to be understood as claiming anything contained therein.

Having thus fully described my invention,

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

The arrangement, in a key, of one or more of several bits upon a pivot, so as to be turned thereon to different angles, to a bearing, to operate in the manner and for the purpose substantially as specified.

F. W. SMITH, JR.

Witnesses:

JAS. H. CROFUT,
H. T. BLAKE.