

*J. Brady,*

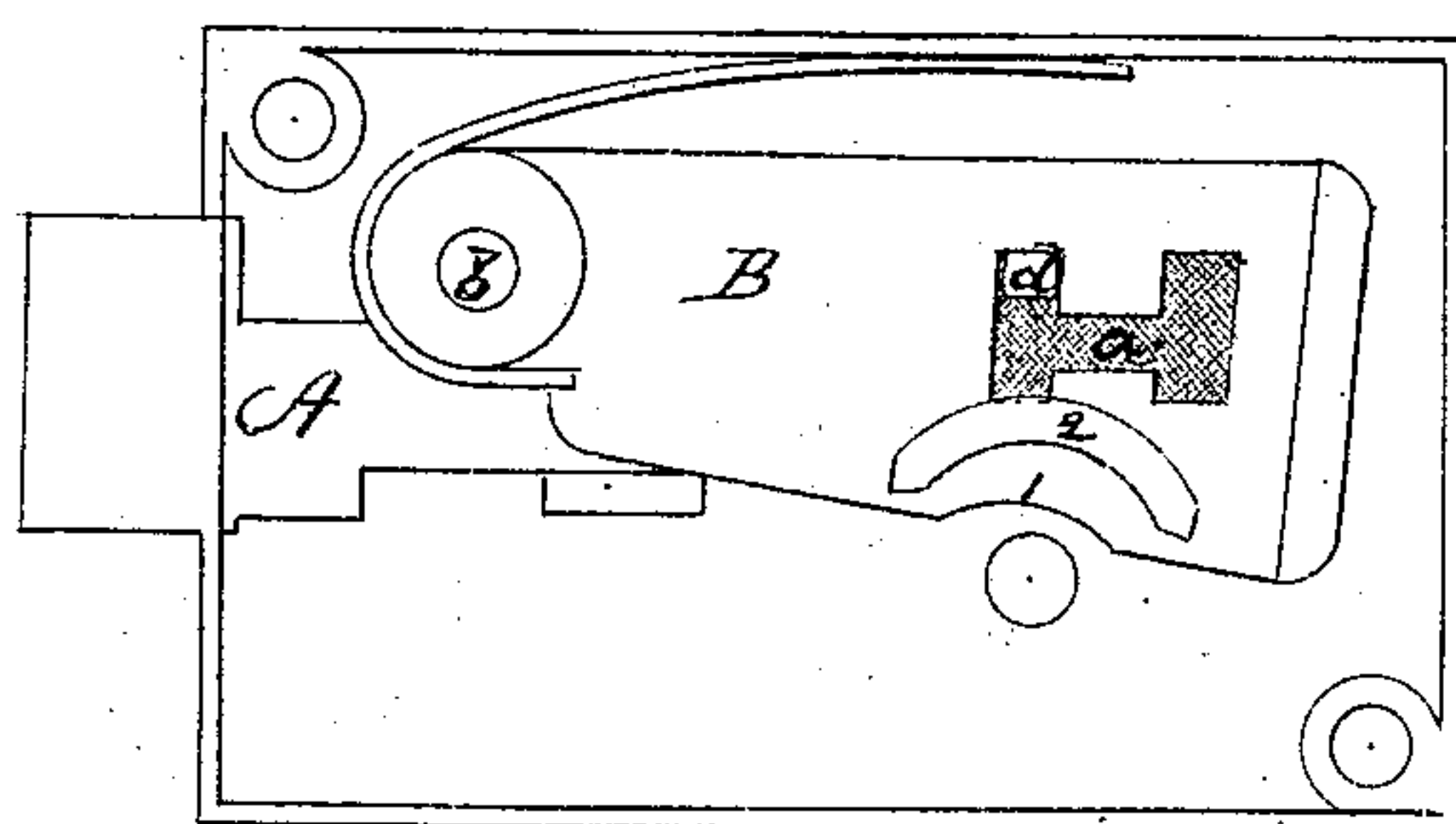
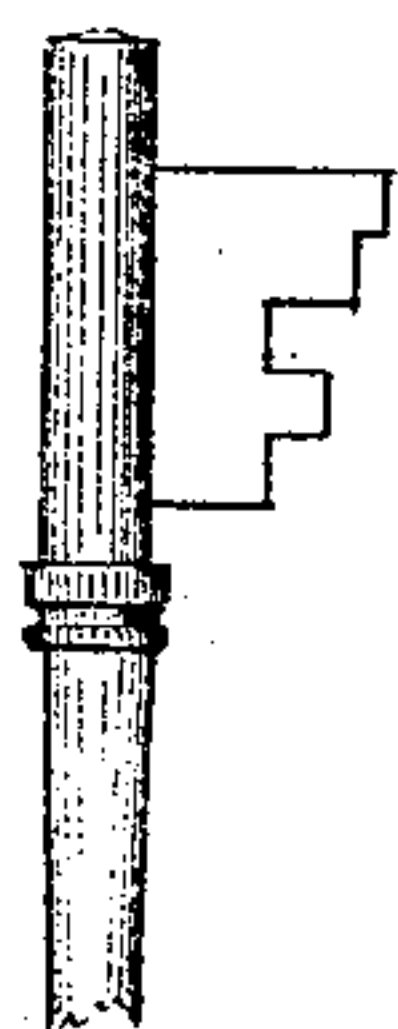
*Lock.*

*No. 103838.*

*Patented June 7. 1870.*

*fig. 1.*

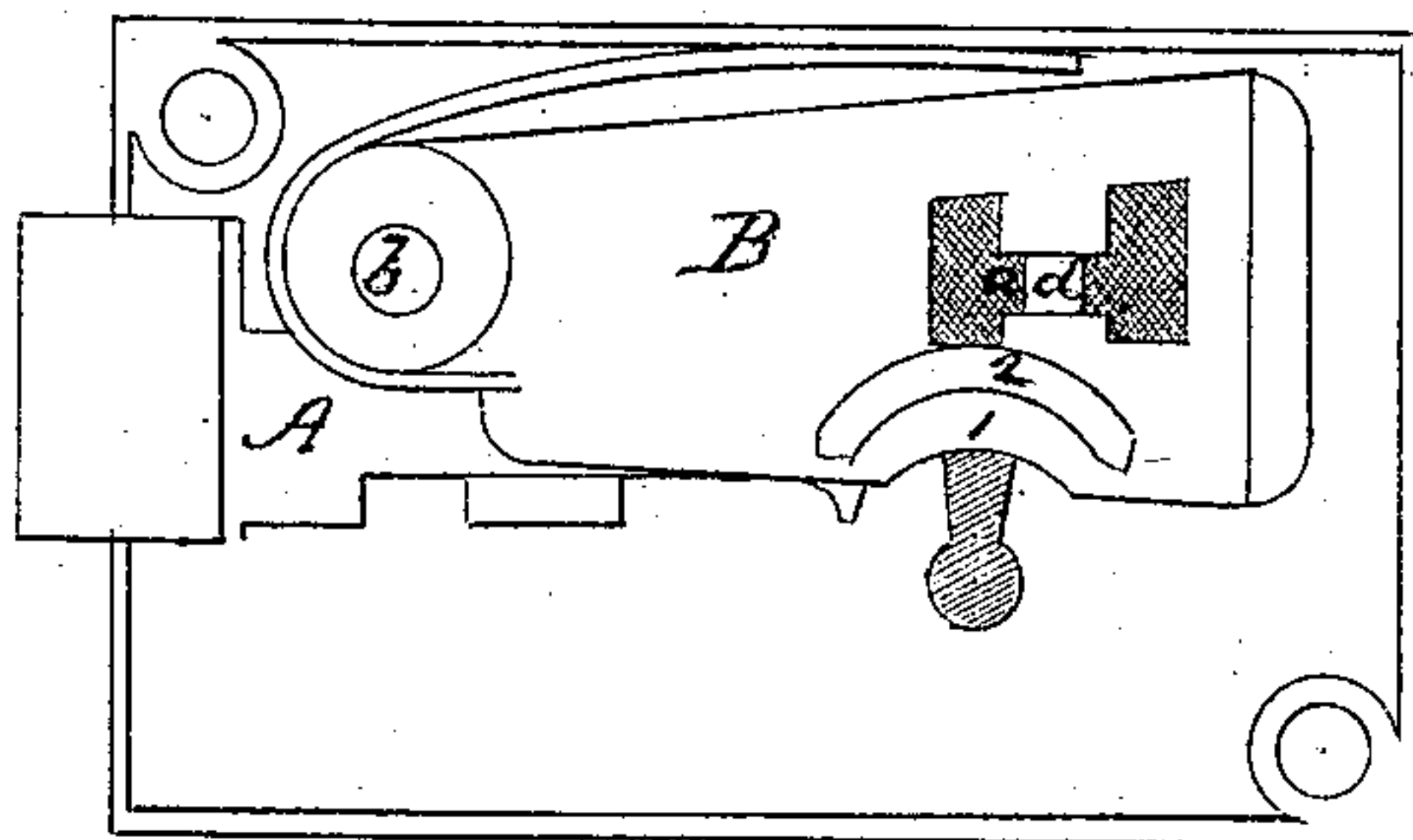
*fig. 2.*



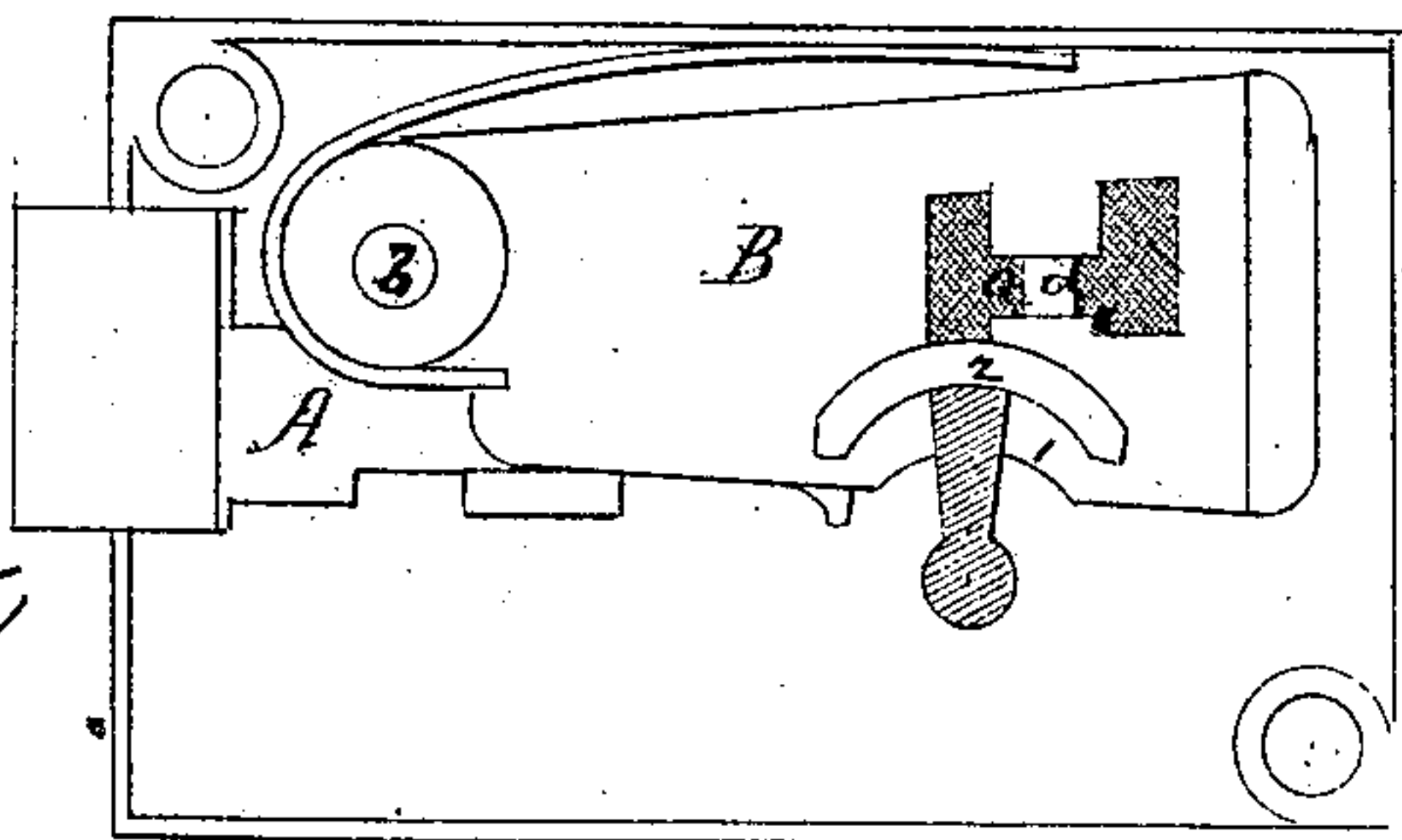
*fig. 3.*



*fig. 4.*



*fig. 5.*



*Witnessed*  
*J. H. Shumway*  
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*James Brady*  
*Inventor*  
*By his Attorney*  
*Wm. E. Earl*

# United States Patent Office.

JAMES BRADY, OF BRANFORD, CONNECTICUT, ASSIGNOR TO THE BRANFORD LOCK WORKS, OF SAME PLACE.

*Letters Patent No. 103,838, dated June 7, 1870.*

## IMPROVEMENT IN 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, JAMES BRADY, of Branford, in the county of New Haven and State of Connecticut, have invented a new Improvement in Locks; 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 of the plate removed;

Figure 2, the principal key;

Figure 3, the master key;

Figure 4, the operation with the principal key; and in

Figure 5, the operation with the master key.

This invention relates to an improvement in locks, the object being the construction and arrangement of the tumblers, so that they may be operated by either one of two differently-constructed keys, one of which is a master key; and

It consists in constructing one or more of the tumblers with a double bearing, so that the bit of one key will operate upon one of the bearings, and the bit of the other key upon the other, both bits raising the tumblers to the same point, so that the bolt will pass the gate in either position.

A is the bolt, constructed in the usual manner.

B, one tumbler, pivoted at *b*, and arranged with a gate, *a*, through which, when the tumblers are raised, a stud, *d*, on the bolt, will pass, the tumblers falling down onto the stud at either side of the gate.

These tumblers may be more or less in number, and

combined in the usual manner for combining tumblers with the lock-bolt.

On the tumblers I form two bearings, 1 2, either by rebating the tumbler, or by making a projection thereon, so that the bit of one key will operate against the edge 1 of the tumbler, and the other key against the projecting or rabbeted edge 2, as seen in figs. 4 and 5, that in fig. 4 representing the key as having raised the tumbler, bearing upon the tumbler, and that in fig. 5 as the other key, bearing against the projection 2. Hence the tumbler is raised to the same point by either of two different and distinct keys.

Where several tumblers are employed, the projections or edges may be varied, but the projection or edge upon which the master key operates should be the same in all the locks, and the edge upon which the principal key operates should be different in all such locks, in order that no two of the principal keys shall fit the same lock. The variety of keys by such construction, it will be evident, is almost unlimited.

I do not broadly claim the construction of the tumblers relatively to the bolt, so that the bolt may be operated by either one of two keys.

I claim as my invention—

One or more of the tumblers of a lock, provided with a double bearing-surface, 1 2, so that by two different keys the tumbler is raised to the same point by both keys, substantially in the manner and for the purpose set forth.

JAMES BRADY.

Witnesses:

A. J. TIBBITS,

J. H. SHUMWAY.