

*J. C. Hintz, Jr.,*

*Permutation Lock.*

*No 103,183*

*Patented May 17 1870.*

Fig. 1.

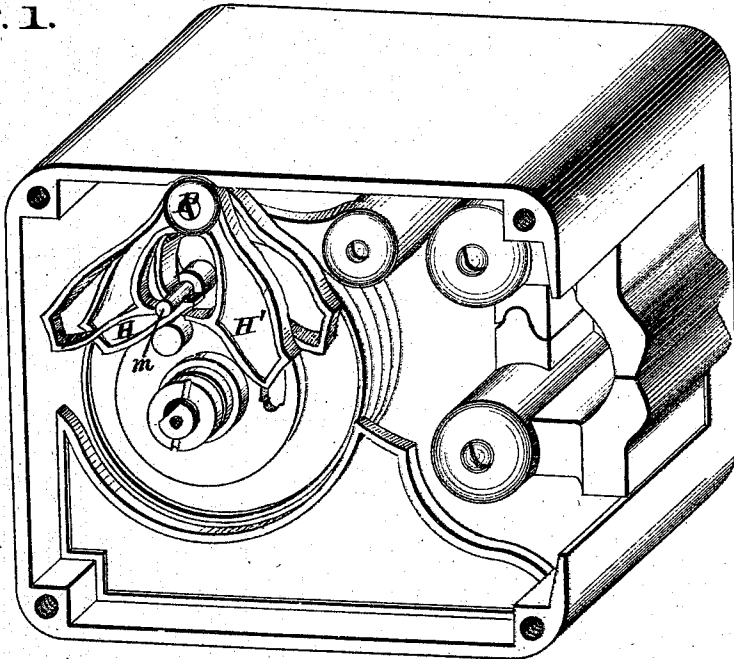
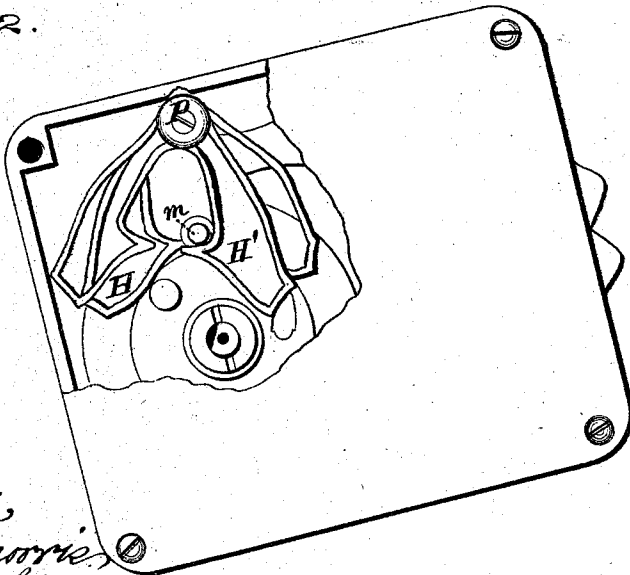


Fig. 2.



ATTEST,  
*S. D. Morris,*  
*M. D. Oliver*

INVENTOR,  
*J. C. Hintz, Jr.*

# United States Patent Office.

JULIUS C. HINTZ, JR., OF CINCINNATI, OHIO.

Letters Patent No. 103,183, dated May 17, 1870.

## IMPROVEMENT IN PERMUTATION 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, JULIUS C. HINTZ, Jr., of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Permutation Locks for Burglar-proof Safes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making part of this specification.

My invention consists in an improvement made on the permutation lock described in the specification accompanying Letters Patent No. 71,373, and granted to Charles Flesch the 26th day of November, 1867, and relates to an improved device for sustaining the dog-lever, so as to prevent the dog from resting on the combination wheels in any position of the safe.

Figure 1 is a perspective view of my improved lock, with the back plate of the case removed to show the works of the lock.

Figure 2 represents a portion of the lock when partly ended up.

It has been found in practice that the weight H of the said Flesch lock performed its function perfectly when the lock was in its normal position, but that when the lock was tipped, in the manner shown in fig. 2, it would fail to pass under the fly *m*, and leave the dog resting on the combination wheels.

To overcome this defect in the said Flesch lock, I employ two weights, one on either side of the fly *m*, and so suspended that if the safe be so tipped as to release the one from operating, the other is thereby brought into operation.

These weights in the drawing are respectively designated H and H', and are each independently pivoted at P.

When the lock is in its normal position, as shown in fig. 1, the bearing of the weight H strikes under the fly *m*, and holds the dog-lever elevated. In this position of the lock the weight H' is in operation.

If, now, the lock should be tipped, as shown in fig. 2, the weight H will not strike under the fly *m*, and, of course, will not hold up the dog-lever. But, in this case, this function is performed by the weight H', as is readily seen from the drawings.

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

The employment, in a permutation lock, of the two weights H and H', substantially as and for the purpose hereinbefore set forth.

J. C. HINTZ, JR.

Witnesses:

S. S. MORRIS,  
M. W. OLIVER.