

E.L. Gaylord. Padlock Key.

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PATENTED JUL 18 1871

Fig. 1

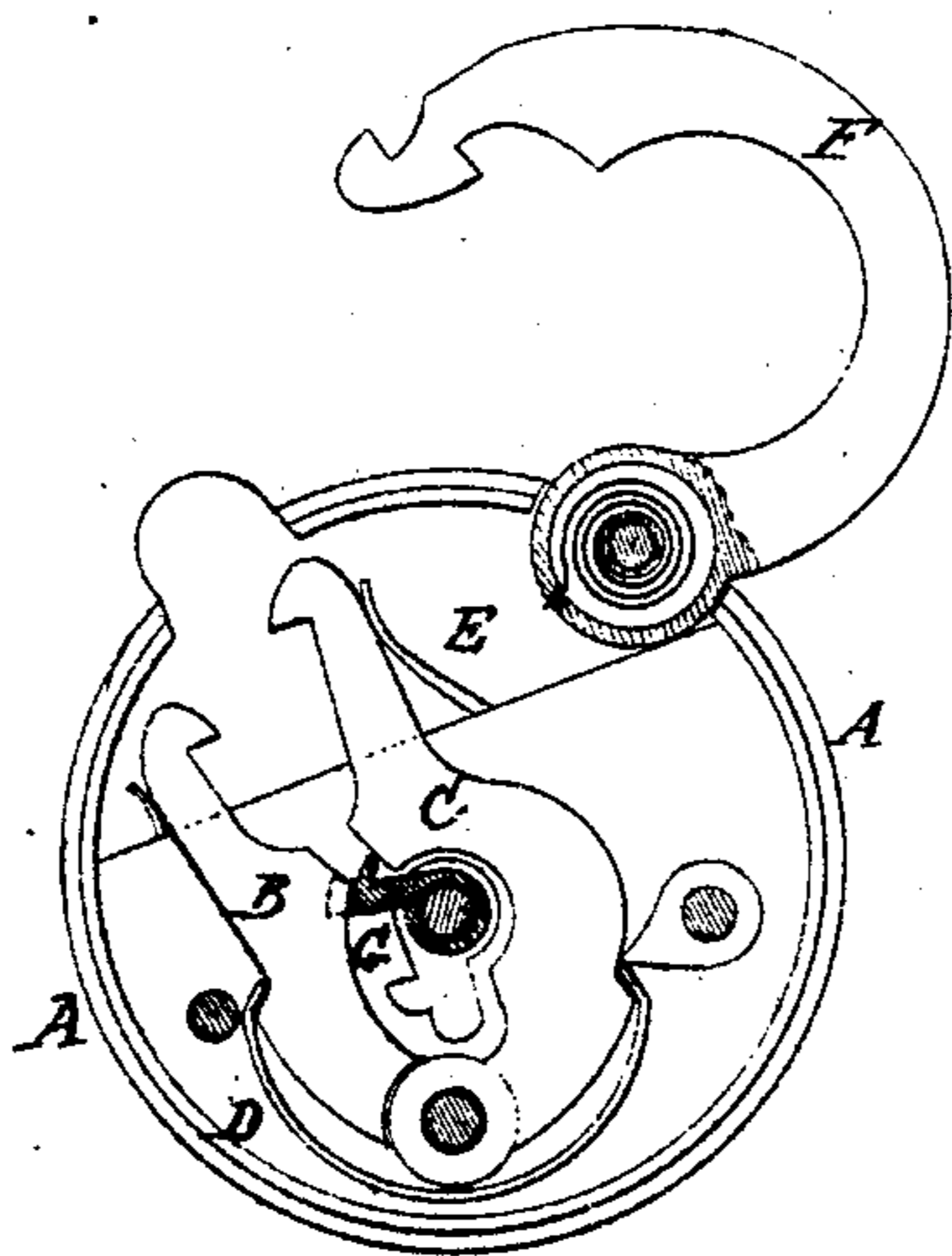


Fig. 2

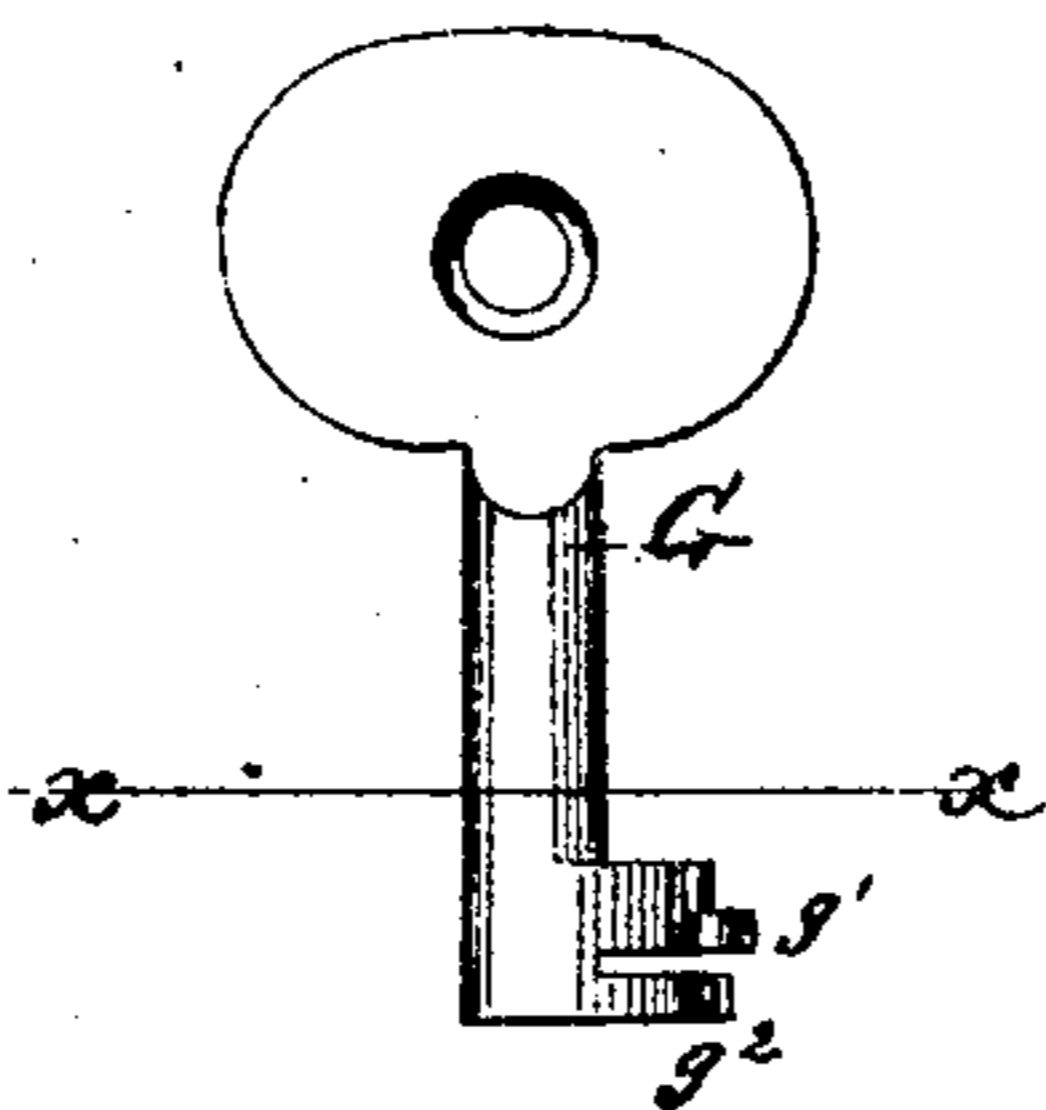


Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD L. GAYLORD, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN KEYS FOR PADLOCKS.

Specification forming part of Letters Patent No. 117,064, dated July 18, 1871.

To all whom it may concern:

Be it known that I, EDWARD L. GAYLORD, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Padlock-Key; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a sectional view of my improved key, illustrating its use. Fig. 2 is a detail side view of the key. Fig. 3 is a detail sectional view of the key taken through the line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention pertains to the relative construction of the rotating key and a double set of pivoted tumblers of a padlock, to the end that said key may throw back one set of tumblers, and, while holding it in that position, also throw back the other set, and thereby release the hasp.

Hitherto double-bitted keys have been used to effect such an operation of a double set of tumblers, but I have adapted a single-bitted key to effect the desired result by means of a peculiar arrangement of its wards.

A represents the case of a padlock. B and C represent two sets of tumblers, which are held forward by their springs D E to grasp and hold

the end of the hasp F. G is the key, upon the outer ends of the bit of which is formed a set of wards, g^1 , which may be varied in length and thickness, or otherwise, as may be desired. Upon the side of the bit of the key G, near its outer end, is formed another set of wards, g^2 , which may also be varied in length and thickness, or otherwise, as may be desired. By this construction, when the key is turned in the lock to unlock it, the wards g^1 strike against the tumblers B and push them back, and hold them pushed back while they slide along the edges of said tumblers B until the other set of wards g^2 strikes against and pushes back the other set of tumblers, C, as shown in Fig. 1.

This construction also very greatly increases the number of possible variations or changes in the keys, making it possible to make an indefinite number of locks that can only be unlocked each with its own key.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The rotating single-bitted key G, having the wards g^1 upon the outer end and the wards g^2 upon the side of its bit, in combination with the tumblers B and C, arranged and operating as specified.

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