E. L. Gaylord,

Piano Lock.

No. 49,100. Patented Aug. 1, 1865.

Fig. 2

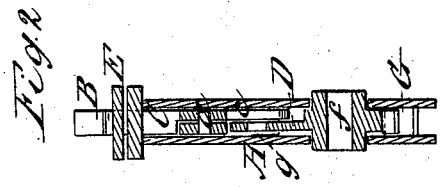
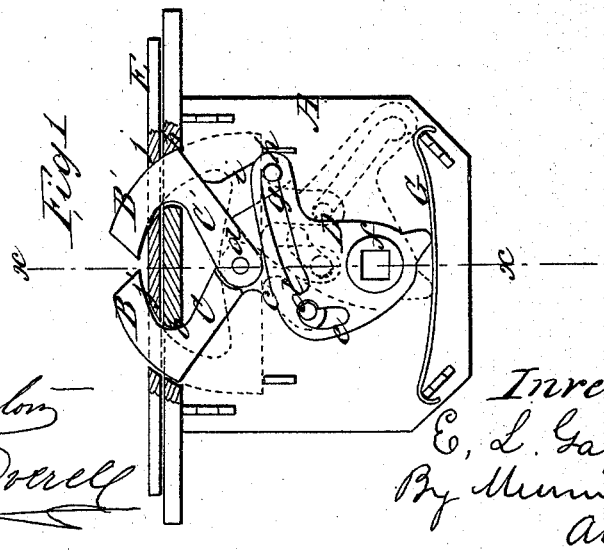


Fig. 1



Witnesses.
J. M. Covington
Wm Dean Orrell

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By Munn & Co
Attys

UNITED STATES PATENT OFFICE.

E. L. GAYLORD, OF TERRYVILLE, CONNECTICUT.

LOCK FOR PIANOS.

Specification forming part of Letters Patent No. **49,100**, dated August 1, 1865.

To all whom it may concern:

Be it known that I, E. L. GAYLORD, of Terryville, in the county of Litchfield and State of Connecticut, have invented a new and Improved Lock; 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 drawings, forming part of this specification, in which—

Figure 1 in an internal view of my improved lock; Fig 2, a transverse vertical section of the same, taken in the line *x x*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and improved lock for piano-fortes, sewing-machine cases, and articles generally having hinged lids.

The invention consists in the employment or use of two bolts of segment form, provided with shanks and connected with a tumbler in such a manner that the bolts will, as the tumbler is operated through the medium of a key, work in the path of a circle in and out from the lock-case, in order to lock or unlock the article to which the lock is applied.

A represents the case of the lock, which may be of rectangular or other proper form, and fitted in a mortise in the article to which the lock is to be applied.

B B′ represent two bolts of segment form, which are provided with straight shanks C C′, connected at their ends and secured within the case A by a pivot, *a*. The bolts B B′ work from the pivot *a* as a center, and consequently move in the path of a circle of which the pivot *a* is the center, and in this movement work into and out from the lock-case through openings *b* in its upper edge, as will be fully understood by referring to Fig. 1.

The bolt B has its shank C prolonged and bent about at right angles to its main portion to form an arm, *c*, which is provided with a pin, *d*, near its end, said pin being fitted in a short curved slot, *e*, in a tumbler, D, which is provided near its lower end with a hollow hub, *f*, the ends of which are fitted in the sides of the case A, the interior of the hub being square to receive a key by which the tumbler is turned. Besides the short curved slot *e*, the tumbler has a long slot, *g*, made in it nearly straight, the outer end being curved downward, and in this slot a pin, *h*, is fitted, said pin being at the outer end of an arm, *i*, which projects at right angles from the shank C′ of the bolt B′. (See Fig. 1.)

The two bolts are operated by means the tumbler D thus connected to them. By turning the tumbler to the right the bolts B B′ will be drawn within the case A, as shown in red, and by turning the tumbler to the left the bolts will be forced out from the lock-case, as shown in black. The bolts, when shoved or moved out from the lock case, pass through openings *j* in a metal plate, E, secured to the lid of the article to which the lock is applied.

Thus by this simple arrangement a very efficient and durable lock is obtained for the purpose specified, one not liable to get out of repair or become deranged by use.

I would remark that the tumbler D is retained in its two different positions by a spring, G.

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

The two segment-bolts arranged so as to work from a common center, and operated through the medium of the tumbler connected with them, substantially in the manner as and for the purpose herein set forth.

E. L. GAYLORD.

Witnesses:

HENRY ATWATER,
ALEXANDER POND.