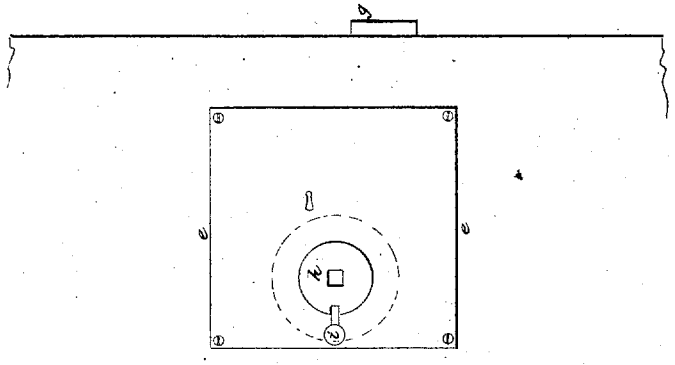
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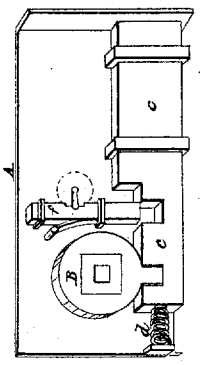
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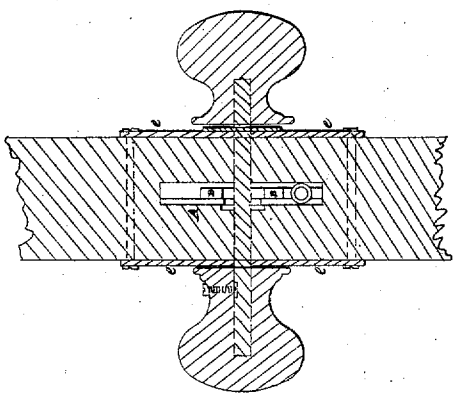
L. Foster,

Door Latch.

Patented Feb. 25, 1831.







AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

Feb. 25. 1851 6396X 39.

Leonard Weller

Selling Patent

To Schedule referred to in these Letters Patent & making part of the same containing a description in the words the said Leonard Weller himself of his improvement in Mortise Door Fastenings.

Said improvement consists in such a formation & combination of the known parts of Door fastenings, not heretofore so formed and combined in Mortise door fastenings as result in a Mortise door fastening occupying less than one half the space of such fastenings heretofore made and requiring little more than half such thickness and width and by this combination thickness & width of cylinder for the use of the Mortised door fastenings & Mineral or Fusible doors shall have heretofore been able to receive them and also in not reducing or weakening the Mortise part of Shutter doors so much as the common Mortise fastenings.

The improved Mortised door fastening only requiring a Mortise of about two inches wide, admit of the escutcheons being screwed to the solid part of the door above & below the mortise or weak part while it has thereby secured, and the escutchions do not work loose as when fastened on the thin shell of the mortised part of the door, said escutchions being part of said improved door fastening are formed of plate of steel or other suitable metal each three inches square and are screwed to the door one on the inside & one on the outside by four screws or rivets passing through the inside escutcheon & the solid part of the door above & below the mortise part screwing to & resting upon the outer escutcheon.

Said inside escutcheon has a shoulder about it near the outer edge, which shoulder is one quarter of an inch from the centre of the escutcheon & has a square notch of a size to receive a plate attached & working with the spindle of the door handle & knob and renders the same immovable & over the end

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bolt which is connected through the knuckles with the said spindle and these knobs the catch bolt assumes the purpose of the thumb bolt which in the common knobs fastening is more expensive and much difficult to move than said sliding knob. The said improved knobs fastening is formed of a plate of iron or other suitable metal about two inches square by four inches long bent at one end in right angle to form a face through which the catch bolt passes secured the door to the said face may be a separate piece attached to said plate. The catch bolt is secured to said plate by two staples & is moved by a spring at the inner end of the plate said catch bolt is formed of a plate of iron about one eighth of an inch thick three & a half inches long & three quarters of an inch wide except for one inch and a half next the spring where it is but half an inch wide for the purpose of getting the door handle in the middle of the lock plate.

Said bolt has in notch cut into its side or edge about one quarter of an inch square & about one quarter of an inch from the end next the spring to receive the arm of the knuckle also a similar notch on the same edge or side to receive the key bolt when such is attached to the said fastening. The said knuckle is formed in part of a circular plate of iron about one inch in diameter and one eighth of an inch thick with an arm projecting one quarter of an inch from the circular edge of the circle which arm takes into the said notch of the said catch bolt, and moves the same said part of the knuckle has an opening in its centre about half an inch square through which it receives a bent or pivot said bent or pivot being the remaining part of the knuckle, is circular with a flanch at the end where it rests in the lock plate and is square at the other end where it passes through and is riveted to the said circular plate or part of said knuckle the lock plate being between and secured by the flanch of the pivot or rivet on the one side and by the circular plate of the knuckle on the inside.

Said pivot or rivet has also a square hole in its centre through which the spindle of the knobs or door handle passes. The knuckle by being in the form & held to the lock plate by a flanch instead of being riveted to it and the mortises being on the

Tumbler & both moving is not liable to lose and separate from the lock plate as the Common Tumbler does from its being in one piece and rivetted to the Stationary lock plate. The key hole when such is opposed to the door fastening is very small and is formed by the lock plate at right angles with the catch bolt & when moved by the key shoots into the before mentioned notch of said catch bolt which is then immoveable and serves the purpose of the Common key bolt.

The Catch on the door frame which is usually straight had the angle or inclined plane requisite to force the Catch bolt back and renders it unnecessary that the bolt should be any thicker than strength requires through the usual thickness of the Catch bolt the door fastenings is nearly half an inch & this length is necessary to get an inclined plane of length and angle sufficient & force said bolt back on closing the door.

The above improvements are applicable to Mortice door fastenings moved either by sliding or turning door handle

Said Mortice door fastening may also be made with a top plate or cover which with the sides or shroud is to come at the bottom or mortice plate round round the staples which secure the catch bolt to the mortice plate when necessary the handle &c in the latter case might be in one piece & both ends round here in the top & bottom plates in the common way.

What I Claim as my invention in the Mortice lock or door fastening made which Such a bolt is made as making & constituting of the before described part of said door fastening & not heretofore so formed and combined in Mortice door fastenings as result in a Mortice door fastening the flat or plate of such bolt so taken the the inclined part of the door like the Common Mortice fastening and in manner as to be embraced & strengthed by the Cheeks or sides of the sliding Lock or said Cheeks it being less expensive and more easily & surely moved than the round bolt of the Common Mortice fastening

Used by them in the manner said Mortice door fastening is made applicable to sliding doors and Mortice fastenings

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Have heretofore been used for the purpose in Construction and to appear at a less price than this due fastenings have been heretofore devised for & have rendered capable of taking the place of the Chimney and ingenious fastenings Common to Chamber doors and to the doors of houses of same nature and as such being new is a useful improvement

Witnesses
Henry G. Ives
William F Ely

Edmund Foster

(Patented February 25. 1831)

1455 acres

15.00 Works

Dr $1.00