(No Model.)

T. H. BENNINGER.

BAR LOCK FOR DOORS.

No. 527,104. Patented Oct. 9, 1894.

FIG. 1.

FIG. 2.

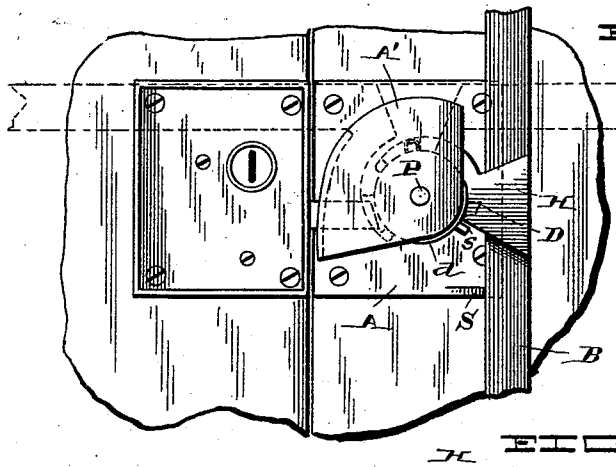


FIG. 3.

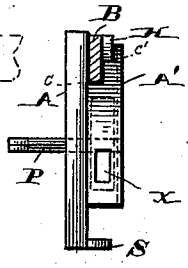


FIG. 4.

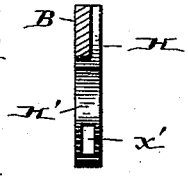
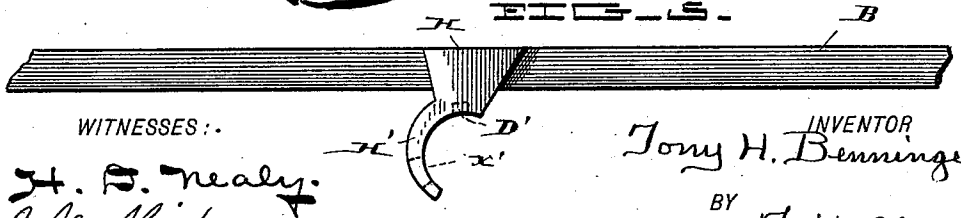


FIG. 5.



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TONY H. BENNINGER, OF LOUISVILLE, KENTUCKY.

BAR-LOCK FOR DOORS.

SPECIFICATION forming part of Letters Patent No. 527,104, dated October 9, 1894.

Application filed December 4, 1893. Serial No. 492,800. (No model.)

To all whom it may concern:

Be it known that I, TONY H. BENNINGER, of Louisville, in the county of Jefferson and State of Kentucky, have invented new and useful Improvements in Bar-Locks, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention consists in certain new and useful improvements in door-bars, and consists in certain features of detail, construction, and operation of parts, all as hereinafter more fully set forth and specifically pointed out in the claims.

In the annexed drawings similar letters of reference denote corresponding parts in all views, wherein—

Figure 1 is an elevation of a pair of doors from the interior, fitted with my invention. Fig. 2 is an enlarged view of the locking devices shown in Fig. 1. Fig. 3 is an edge view of the locking means. Fig. 4 is a sectional view of the bar —B— and hook-shaped hanger —H— looking at it from the left, and Fig. 5 is an enlarged detached view of the locking bar and its depending hanger —H—.

Referring to the drawings—A″ A‴ are two doors of ordinary construction, to the frame of which are secured two staples —*e*— *e*— of ordinary form adapted to hold the bar —B— in position and resist inward strain on the doors. Secured to one door is a plate —A— or block cast solid with the face plate —A′— with a space between in which may be pivotally held the drum —*d*—. This drum —*d*— is pivotally supported on a spindle —P— which is provided at its outer end with an angular portion adapted to receive a key to turn it and with it the drum —*d*— carried therewith. Cast integral with the plate —A— is a lug or stop —S— which presents a flat face to the side next the bar —B—, while a second stop —*s*— is also cast or otherwise secured to said plate —A—, the function of which stops will be hereinafter more fully set forth.

Between the casting —A′— and the base-plate thereof is a clear space except for a portion of the distance within the arc of the circle near the lower end thereof, which portion joins the said plate —A—, and in the latter portion is an oblong opening extending into the interior to the drum —*d*— which is held between the said plate —A— and casting —A′—. About midway the arc shown are two shoulders —*c*— and —*c*′—, the former of which acts as a stop for the bar —B—, and the latter of which acts as a stop for the casting —H— to prevent the bar passing a horizontal plane in the staples —*e*—*e*—.

Secured to the bar —B— is a casting —H— which has a hook-shaped extension —H′—, and in the inner side of the circle described by the extension —H′— is a recess —D′— which recess —D′— fits over the stud —D— on the drum —*d*— so as to support the bar —B— in position on the drum when required. Within the lower portion —H′— as shown in Fig. 5 is an oblong opening —X′— (shown in Fig. 4) which is so located with relation to the stud —D— that it will register with the corresponding oblong opening —X— in the casting —A′— when the bar —B— is in a horizontal position as shown in full lines in Fig. 1 and in the dotted lines in Fig. 2.

Secured on the adjoining door is a lock —L— from which may be projected a bolt —*g*— when desired so that the door may be locked without the bar —B— in case it is desired to do so.

The operation of my bar-lock is as follows: The parts being formed as shown and described it will be apparent that the hooked portion —H′— of the casting —H— may be fitted over the drum —*d*— with the stud —D— fitting into the recess —D′— so as to hold the bar —B— in a vertical position as shown in full lines in Fig. 2, in which case the two stops —S—*s*— will act as abutments respectively for the bar —B— and the casting —H— so as to prevent said bar dropping off in case of sudden jar. The spindle —P— projects through the door to the exterior, where it may be engaged by any ordinary key and rotated as desired, carrying with it the drum —*d*— and the bar —B— to a horizontal position as shown in Fig. 1, the ends entering the staples —*e*—*e*—. At the point where the bar reaches a horizontal position the two oblong openings —X—X′— will come into coincidence and the bolt —*g*— of the lock —L— may be projected therethrough

thus securing the parts in position against rotation until the bolt —*g*— is retracted into the lock —L—.

Thus it will be seen that the operation of barring the outer doors is entirely within the control of a person on the outside of the building and additional security is thus afforded.

While the description has been confined to the bar-lock where two doors are used it will be apparent that the bar —B— may be shortened and provided with counterbalance weight and the same device will work equally well with a single door.

Having described my invention, what I claim is—

1. A bar-lock for doors consisting of a base-piece with bolt opening therein, a pivoted drum supported in said base-piece, a detachable rocking-bar, a hooked support therefor adapted to be carried on said drum, and a bolt opening in said hooked piece adapted to register with the bolt opening in the base piece when the bar is in a horizontal position.

2. A bar-lock for doors consisting of a base piece with bolt opening therein, a drum revoluble in said base piece, a bar carried from said drum by an attaching hook, a bolt opening therein, and stops on the base piece plate adapted to limit the movement of said bar, all substantially as specified.

3. A bar-lock for doors consisting of a base-block, a pivoted drum supported therein, a stud projecting radially from said drum, a door-bar, a hooked support connected thereto adapted to interlock with said projecting stud, a pivotal support for said drum provided with squared end, coinciding bolt openings in said base-block and hooked support and an auxiliary lock supported in such relation to the base-block that its bolt will enter said bolt holes in base-block and hooked support when the bar is in a horizontal position, substantially as shown and specified.

In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Louisville, in the county of Jefferson, in the State of Kentucky, this 30th day of October, 1893.

TONY H. BENNINGER.

Witnesses:
FREDERICK H. GIBBS,
JOS. T. KILLMEIER.