

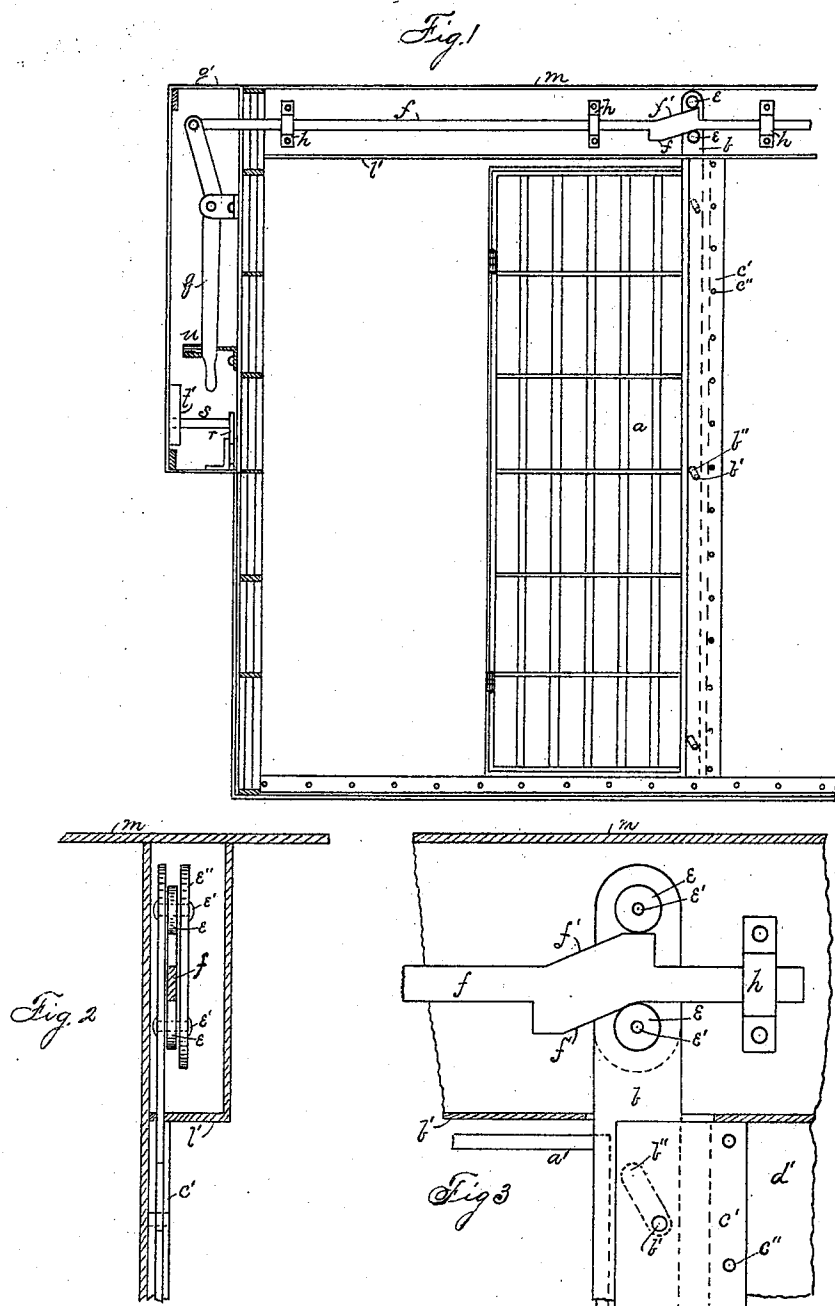
(No Model.)

2 Sheets—Sheet 1.

C. D. HUDGENS.
BOLT FOR JAILS.

No. 498,059.

Patented May 23, 1893.



Witnesses
M. F. Capron
H. E. Brandolf.

Inventor
C. Dana Higgins

(No Model.)

2 Sheets—Sheet 2.

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Fig. 5.

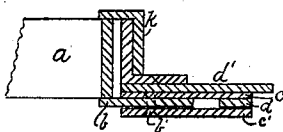
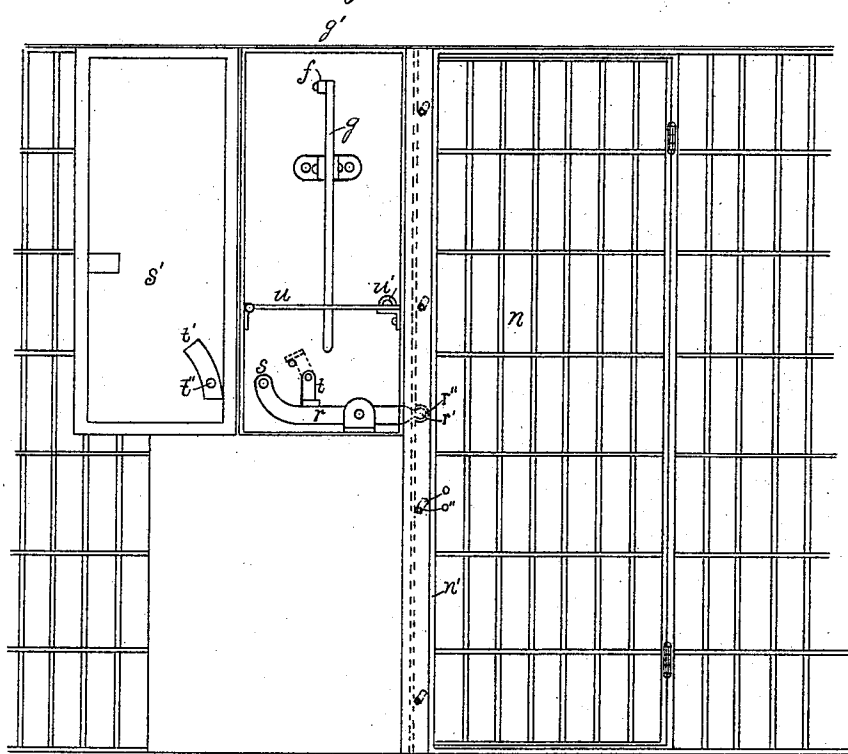


Fig. 4.

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C. DANA HUDGENS, OF KENTON, OHIO.

BOLT FOR JAILS.

SPECIFICATION forming part of Letters Patent No. 498,059, dated May 23, 1893.

Application filed August 6, 1892. Serial No. 442,373. (No model.)

To all whom it may concern:

Be it known that I, C. DANA HUDGENS, a citizen of the United States, residing at Kenton, in the county of Hardin and State of Ohio, have invented a new and useful Locking System for Jails, of which the following is a specification.

My invention pertains to a system for locking jail or prison doors from without the cage in which prisoners are confined, and its object is to avoid the personal dangers to which a jailer is exposed by moving in personal contact with prisoners while confining them to their respective cells. Its object is also to provide an inexpensive and simple method of accomplishing the above stated purpose in a manner such as to resist attempts of prisoners to damage the same so as to effect an escape.

The various parts of the mechanism for accomplishing the purposes claimed herein, are illustrated in the accompanying drawings in which—

Figure 1 shows a front view of a cell door and lever bars, and a sectional view of the lock lever box. Fig. 2 is an edge view of lock bar of door. Fig. 3 is a front view of lock bar of door. Fig. 4 is a sectional view of the door, the door jamb and the lock bar of door. Fig. 5 is a front view of the lock lever box.

Similar letters refer to similar parts throughout the several views.

In Figs. 1 and 3, *a* represents a cell door of grated construction, although plate or lattice construction may be used, and which is hinged to the front walls of the cell in the usual manner. At the sides of the door *a* the bar *b* is located and is attached to the cell front by the pins *b'* which pass through the diagonal slots *b''* in the bar *b* and are secured at the inner end into the bar *c*, and at the outer end into the bar *c'* by being countersunk and riveted. The bar *c'* is secured at one edge by the rivets *c''* which pass through the filling bar *d* and the cell front *d'*. The bar *b* is provided at its upper end with the two anti friction rollers *e* set on the axles *e'* and covered in front by the guide plate *e''*. The bar *b* is actuated by means of the hori-

zontal bar *f* having on its upper and lower edges the reversed inclined surfaces *f'*. The bar *f* is in turn operated laterally by means of the lever *g* which is located in the closed box *g'* on the outside of the cage. As the bar *f* is drawn toward the box *g'* it slides through the guides *h* and the upper roller *e* travels up the upper inclined surface *f'* which at the same time lifts the lock bar *B* and carries it forward by the travel of the diagonal slot *b''* over the pins *b'* until the outer edge of the bar *b* slips past the edge of the door *a* from top to bottom forming a continuous fastening. When the bar *f* is moved in the opposite direction the lower surface *f'* presses downward on the lower roller *e* and the bar *b* travels downward and backward until the front edge releases the door *a*, leaving it free to open. The inside face of the door *a* when closed rests against the angle piece *k* which extends from top to bottom of the door forming a stop for the same.

The bar *f* and its accessories and the upper end of the bar *b* are incased with the covering plates *l* and *l'* which extend the entire length of the bar *f* and are connected with ceiling plate *m* and the cell front *d'*.

When the lever *g* is in the position which locks the cell door *a* the bar *u* which is hinged to one side of the lock box *g'* is thrown in the position shown and is locked with a padlock through the staple *u'*. When the lever *g* is in the locked position the door *s'* of the lock box *g'* can be closed and locked with a combination or spring lock of any suitable form.

Having thus described the various parts of my invention and their combined actions and purposes I claim, and desire to have secured by Letters Patent—

1. The combination with the cell door *a*, of a sliding bar *b* having diagonal slots *b''*, rollers *e*, axles *e'*, and plate *e''* the cover plate *c'* pins *b'*, filling bar *d*, strike *k*, the bar *f* having inclined surfaces *f'*, the guides *h* the lever *g* the bar *u* and staple *u'*, the lock box *g'* and the casing plates *l* and *l'* connected with the cell front *d'* and the ceiling *m* substantially as shown and specified.

2. The combination of the bar *b* having the

rollers *e*, axles *e'* and plate *e''* with the bar *f* having the reversed incline surfaces *f'* substantially as shown and specified.

3. The combination with a cell door, of the
5 lock bar *b* having diagonal slots *b''*, rollers *e*, axles *e'* and plate *e''* cover bar *c'*, the pins *b'*, the bar *d*, the plate *d'* the strike *k*, the

guides *h* and the bar *f* having the inclined surfaces *f'* substantially as shown for purposes stated.

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Witnesses:

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