

941,203.

F. J. S. MIELY.
GATE AND DOOR FASTENER.
APPLICATION FILED JAN. 29, 1909.

Patented Nov. 23, 1909.
2 SHEETS—SHEET 1.

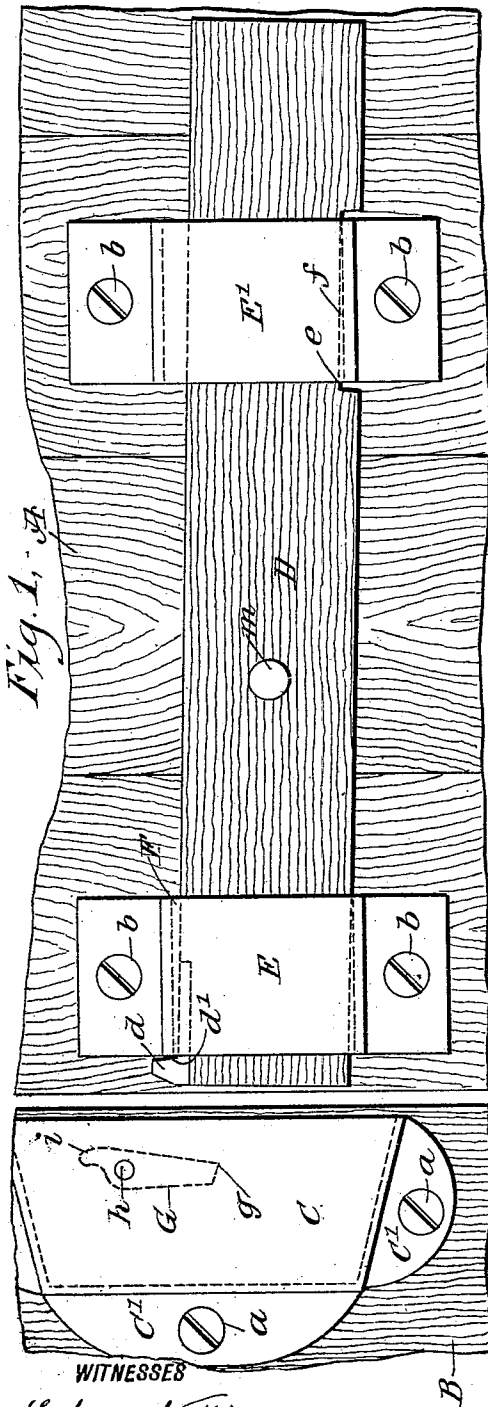


Fig. 1, A

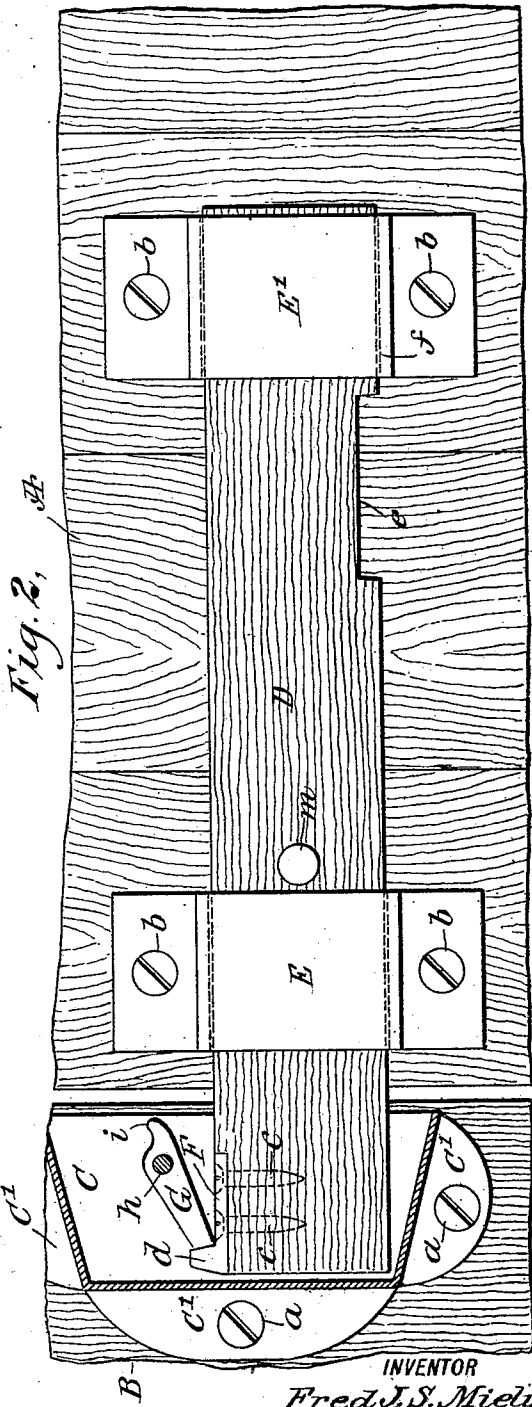


Fig. 2, B

WITNESSES
Edward Thorpe
Wm. L. Patton

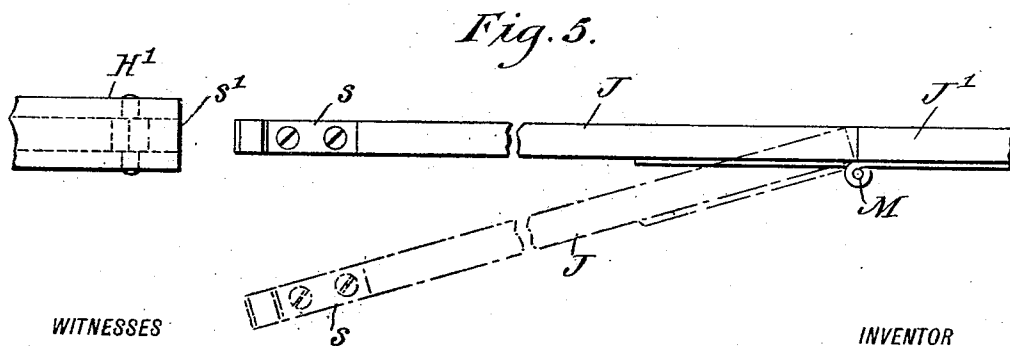
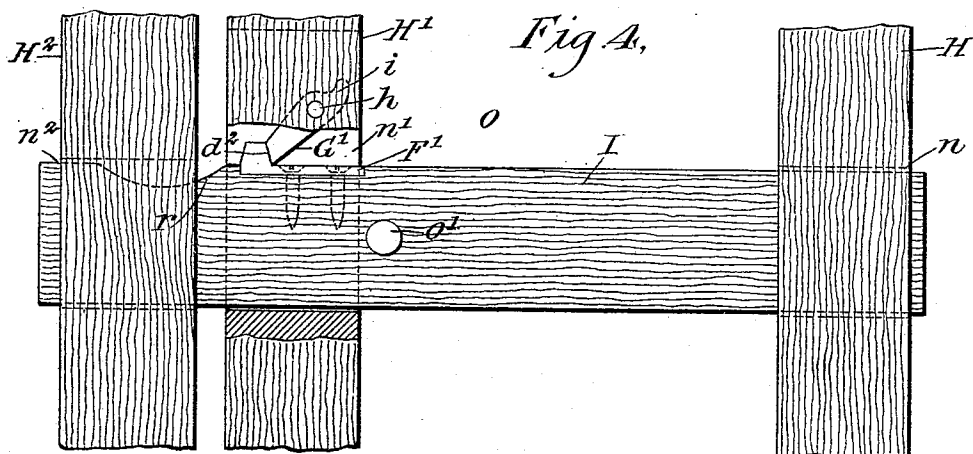
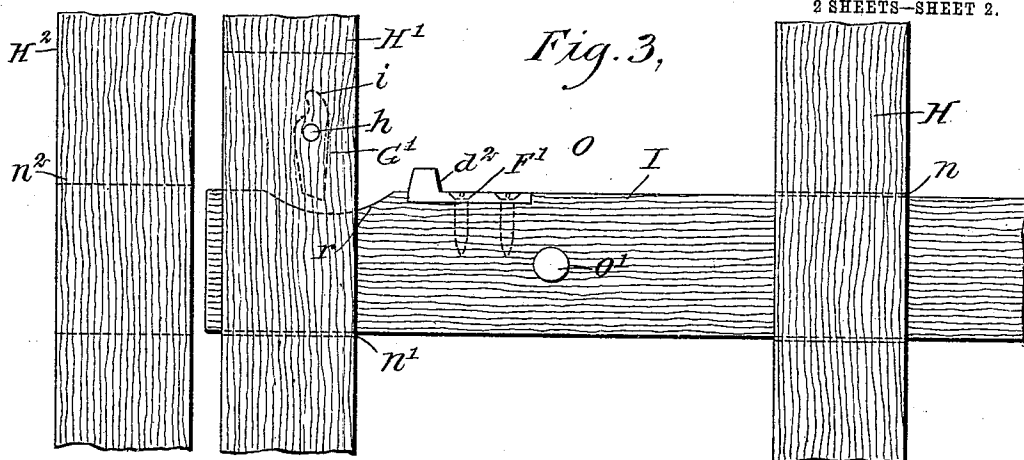
INVENTOR
Fred J. S. Miely
BY Munn & Co
ATTORNEYS

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2 SHEETS—SHEET 2.



WITNESSES

Edward Thorpe.
[Signature]

INVENTOR

Fred J. S. Mielly
BY *[Signature]*
ATTORNEYS

UNITED STATES PATENT OFFICE.

FRED JAMES SMITH MIELY, OF GUNNISON, COLORADO.

GATE AND DOOR FASTENER.

941,203.

Specification of Letters Patent.

Patented Nov. 23, 1909.

Application filed January 29, 1909. Serial No. 475,018.

To all whom it may concern:

Be it known that I, FRED J. S. MIELY, a citizen of the United States, and a resident of Gunnison, in the county of Gunnison and State of Colorado, have invented a new and Improved Gate and Door Fastener, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide a novel simple device for securing a door, gate or the like in closed condition, the fastener being durable, inexpensive and convenient to operate.

The invention consists in the novel construction and combination of parts, as is hereinafter described and defined in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a fragmentary front view of a gate or door, a jamb or latch post therefor, and of one example of the improvement mounted upon the door in unlocked condition; Fig. 2 is a similar view but showing the parts adjusted to lock the door fast to the jamb or post; Fig. 3 is a front view of the improved fastener, mounted upon a slidable gate bar, and a post mortised for the reception of said gate bar; Fig. 4 is a similar view, but showing the slidable bar secured to the post by a locked adjustment of the improved fastener; and Fig. 5 is a plan view of a slidable bar, a latching post, and a locking device therein similar to that shown in Figs. 3 and 4, the bar being slightly modified in construction.

Referring to Figs. 1 and 2, A indicates a board structure that may be a portion of a barn door, or an imperforate gate, and B a fragmentary portion of a stationary object that is disposed near a side edge of the door or gate, and may represent the jamb of a door casement, or a gate post whereon the gate is to be detachably secured. On the fixed jamb or post B, at a suitable point, a socket box C is secured by screws a, that engage flanges C' formed on the box C, and are inserted into the jamb or post B. D indicates a slide bar, that is loosely secured on the door or gate A by means of recessed clip bands E, E' that are spaced apart and attached to the structure A by screws b. Upon one end of the slide bar D that in serv-

ice is disposed near the socket box C, a latch plate F is mounted, it being seated and secured upon the upper edge of said slide bar by screws c, as indicated in Fig. 2.

On the latch plate F at its end that is nearest the socket box C, a rib d is formed that projects upward and affords a shoulder d'. In the lower edge of the slide bar D adjacent to the clip band E', which is farthest from the jamb or post B, a shallow flat-bottomed recess e is formed, that will loosely receive the off-set f in the recessed band E', when the slide bar is fully retracted and the shoulder d' is impinged upon the outer vertical edge of the clip band E, as shown in Fig. 1. In the socket box C, near its upper wall, a latch dog G is pivoted, said dog consisting of an oblong flat block of metal having a toe g formed on one end thereof, which will, due to gravity of the latch dog, drop into engagement with the shoulder d' if the slide bar D is released from the clip band E', and then slid toward and into the socket box C, as shown in Fig. 2. It will be seen that the pivot h that holds the latch dog G in place within the socket box C, engages the latch dog near the end of the dog that is farthest from the toe g, and on said end i a handle member is formed that is in a convenient position for manipulation and release of the toe g from the shoulder d'.

On the slide bar D a stop pin m is secured, which projects outward, said pin serving as a handle for the convenient slidable movement of the bar to be manually effected. As shown by dotted lines in Fig. 1, the body of the latch dog G drops by gravity into the path of the slide bar D, so that a slidable insertion of said bar into the socket box C will raise the dog by an impingement of the end of the latch dog thereon, and when the toe of the dog passes over the rib d, said toe g will automatically engage with the shoulder d', thus locking the door or gate in closed condition. In Figs. 3 and 4 the improved fastener is shown as applied for the closure of an opening in a fence through which cattle are driven from one inclosure to another. In this application of the device H represents one upright fence post, H' a similar post, and H² a latching post erected adjacent to the post H'. Between the posts H, H' a suitable opening O is provided for the passage of live stock therethrough, this opening being normally closed by a slide bar I that is loosely inserted through aligned

slots n , n' , n^2 that are formed in the same plane transversely through the posts H , H' , H^2 . The slide bar I is substantially similar to the slide bar D , and is provided with a knob or handle O' for its reciprocal movement. The slot n' that is formed in the post H' is of a greater width, vertically considered, than the slots n , n^2 and in the slot n' above the slide bar I , a latch dog G' is pivoted, which is similar to the dog G .

On the upper edge of the slide bar I , a latch plate F' similar to the latch plate F is secured, this plate being so positioned that the pendent latch dog G' will engage the shoulder d^2 thereon, when the slide bar I is passed through the slot n^2 in the post H^2 , as shown in Fig. 4, and thus lock the slide bar in closed adjustment across the opening O . As shown in Fig. 3, a scallop r is preferably formed in the upper edge of the slide bar I near the extremity thereof which is inserted through the slot n^2 in the post H^2 , said scallop r permitting the latch dog G' to hang pendent when the latch bar is retracted from the post H^2 as shown in Fig. 3. In use of the improved fastening for closure of an opening O , by means of a slide bar, it is found of advantage to form said slide bar in two sections J , J' and connect said sections by means of a hinge M , as shown in Fig. 5.

When the bar is hinged it will be used the same as the slide bars D and I , having a latch plate s thereon at one end, which will pass into a slot in a post such as H' and be engaged by a pendent latch dog s' . In

handling live stock the animals at times become restive, and may crowd upon the slide bar before it can be slid endwise sufficiently for clearance of the opening O ; should this occur in the use of the two part slide bar J , J' the section J which is provided with the latch plate s thereupon may swing and yield to the pressure of the live stock, thus avoiding a fracture of said slide bar.

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

1. In a device of the character described, the slide bar movable endwise in a plurality of slotted posts, said bar having a ribbed latch plate thereon, and one post having a latch dog that is pivoted in its slot and adapted to interlock with the ribbed latch plate, said slide bar being divided into two sections that are hinged together for lateral flexure of the bar.

2. In a device of the character described, a slide bar provided at one end with a ribbed latch plate, on the upper edge thereof, a socket for receiving the slide bar, and a latch dog pivoted within the socket, said dog having one end shaped to fit the rib, and the other provided with a thumb piece manipulating the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRED JAMES SMITH MIELY.

Witnesses:

HUGH P. FERGUSON,
PAUL C. BOYLES.