

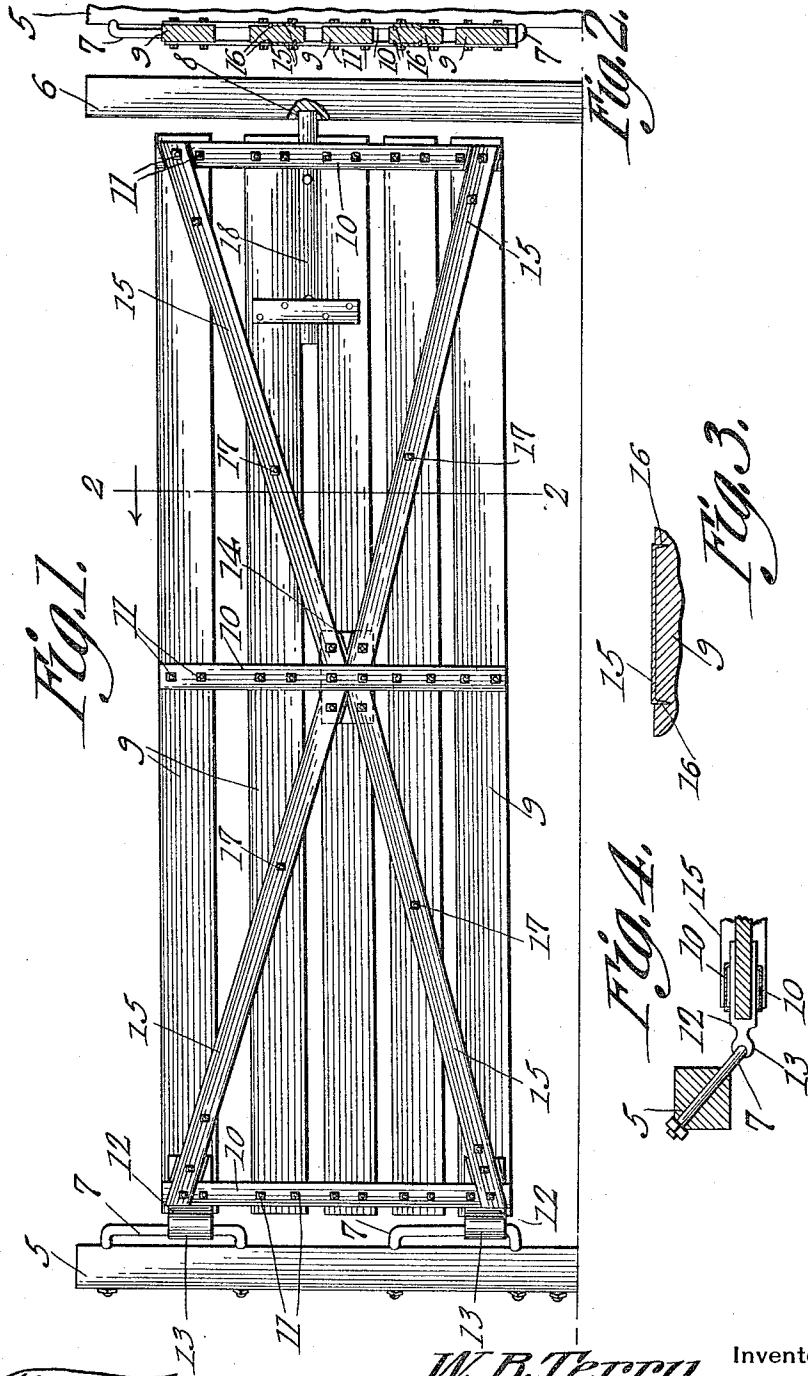
W. B. TERRY.

GATE.

APPLICATION FILED JULY 16, 1914.

1,127,828.

Patented Feb. 9, 1915.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## GATE.

1,127,828.

Specification of Letters Patent.

Patented Feb. 9, 1915.

Application filed July 16, 1914. Serial No. 851,365.

*To all whom it may concern:*

Be it known that I, WILLARD B. TERRY, a citizen of the United States, residing at Provo city, in the county of Utah and State of Utah, have invented a new and useful Gate, of which the following is a specification.

This case relates to gates and more particularly to that class known as farm gates. The construction involved is such that the various horizontal rails will be rigidly held in proper position and in such manner that there will be no tendency or probability of the gate sagging at the end even after long service.

A further object is to provide a gate including a plurality of wooden horizontal rails across which extend in a diagonal manner, bracing struts with inturned edges biting and embedded within the said wooden rails thus insuring a strong and rigid structure and one in which the wooden rails are held at a plurality of points other than those immediately adjacent the bolts which extend therethrough.

A further object is to so arrange the various braces and hinge connections that a general application of the various stresses will be obtained and successfully resisted thus providing a serviceable gate admirably able to withstand the hard usage to which such a device of this class is ordinarily subjected.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings, accompanying this specification and forming a part thereof the preferred embodiment of the invention is illustrated.

In said drawings: Figure 1 is a view in side elevation of my improved gate. Fig. 2 is a cross sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is a detail view illustrating the manner in which the bracing straps are provided with inturned edges biting in and embedded within the wooden horizontal rails. Fig. 4 is a fragmental view

in top elevation of the hinged end of the gate.

Referring to the drawings in which similar reference numerals designate corresponding parts of the several views, 5 and 6 are parallel spaced posts, the post 5 being equipped with the U-shaped hinge forming bolts 7 and the post 6 being provided with the latch opening 8. This hinge bolt 7 extends diagonally through the post 5, illustrated in Fig. 4, thus off-setting the gate to one side of the post allowing it to swing through an arc of substantially 270°.

The gate proper is formed of a plurality of parallel and horizontally extending rails 9 which are spaced a distance apart and held in such relation by end and intermediate uprights or stiles 10. A plurality of bolts 11 project through the uprights, which are formed of metal and are suitably apertured therefor which bolts draw the said uprights into rigid engagement and embrace therebetween the said horizontal rails. At one end of the upper and lowermost horizontal rails are located the hinges 12, the same being U-shaped in construction so as to extend a distance along the sides of the rails and including the cylindrical loop 13 extending around the hinge bolt 7 and thus mounting the gate for its pivotal motion. The sides of the hinges project beneath the end uprights or stiles 10 and are clamped thereto by means of the same bolts, that extend through the horizontal rails.

Located approximately central of the intermediate or the central stiles are the plates 14 which receive the ends of the diagonal bracing straps 15 thereon. There are four of said diagonal bracing straps upon each side of the gate and project from the corners to the central plate 14. The said diagonal bracing straps are, as illustrated in Fig. 3, provided with inturned and sharpened edges 16 which bite into and are embedded within the wooden horizontal rails. The sharpened and inturned edges of the diagonal bracing straps are turned outward at their extremities thus allowing the bracing straps to fit down and rest flush upon the ends of the stiles and the central plates 14. Suitable bolts 17 extend through the horizontal rails and bracing straps and hold the same in rigid relation.

A latch 18 is adapted to enter within the latch opening 8 of the post 6 and hold

the gate closed in the usual manner. The gate as thus composed will be extremely rigid and due to the manner in which the diagonal brace straps engage, in a counter-sunk manner, the faces of the horizontal rails provide that the rails will be held in rigid relation and that any weight or stress brought to bear upon the same will be directly taken up by the straps and transmitted to the hinges 12. The stiles 10 are also provided with inturned edges embedded within the rails and held so positioned by the bolts.

Having thus fully described my invention what I claim as new is:—

1. A gate comprising a plurality of spaced horizontal wooden rails, end and intermediate stiles embracing and holding the same, diagonally extending bracing straps with plane ends and inturned sharpened

edges intermediate the same, said edges embedded within the wooden rails, and means for holding the same so positioned.

2. A gate comprising a plurality of spaced horizontal wooden rails, stiles embracing said rails therebetween, diagonally extending bracing straps rigidly secured to said rails, said bracing straps and stiles provided with inturned sharpened edges intermediate their ends embedded within the said rails, and U-shaped hinges rigidly secured to the said rails at the meeting juncture of the stiles and diagonal braces.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLARD B. TERRY.

Witnesses:

BOYD B. STRONG,  
EDWARD T. JONES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."