

No. 636,440.

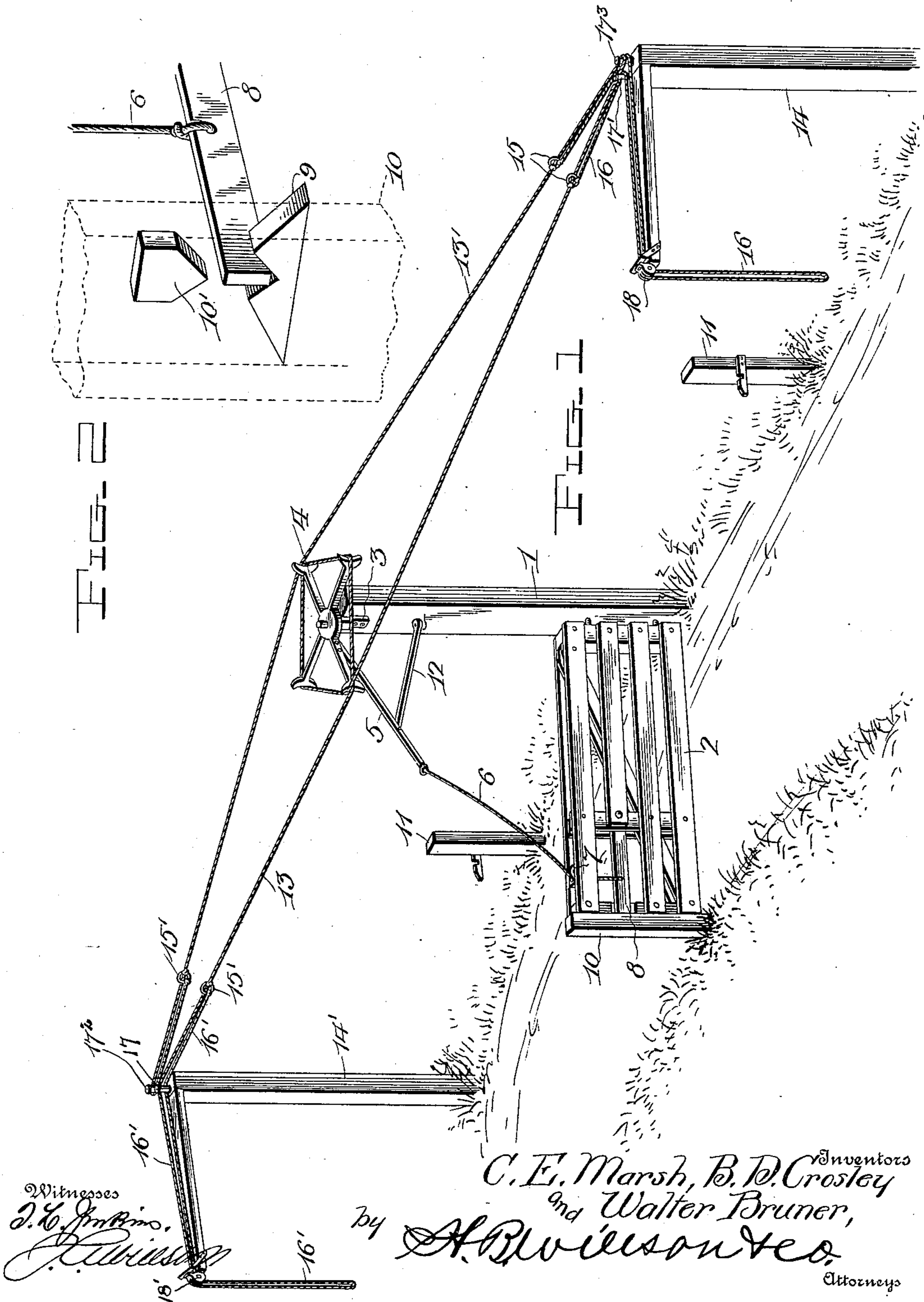
Patented Nov. 7, 1899.

C. E. MARSH, B. D. CROSLLEY & W. BRUNER.

GATE.

(Application filed Aug. 4, 1899.)

(No Model.)



UNITED STATES PATENT OFFICE.

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GATE.

SPECIFICATION forming part of Letters Patent No. 636,440, dated November 7, 1899.

Application filed August 4, 1899. Serial No. 726,078. (No model.)

To all whom it may concern:

Be it known that we, CHARLES E. MARSH, BENJAMIN DAVIS CROSLY, and WALTER BRUNER, citizens of the United States, residing at Fort Madison, in the county of Lee and State of Iowa, have invented certain new and useful Improvements in Gates; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to improvements in double swing-gates.

The object of the invention is to provide a simple, inexpensive, and convenient form of gate, whereby a person approaching from either direction may open the gate, pass through, and close it from the other side without dismounting or alighting if riding.

To these ends the invention consists in the construction, combination, and arrangement of the device, as will be hereinafter fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view of a gate embodying our invention. Fig. 2 is a detail view of the latch mechanism.

In the drawings the same reference characters indicate the same parts of the invention.

1 denotes the post, to which the gate 2 is hinged in any suitable manner. 3 denotes a bracket fixed to the upper end of said post, on which is mounted the horizontal spider 4, which carries an arm 5, from which a cord 6 extends over the grooved pulley 7 to the pivoted latch 8, the free end of which engages the keeper 9 on the post 10 when the gate is closed, and it is also adapted to engage the corresponding keepers on the posts 11 11, fixed on either side of the main gate-post 1.

10' denotes a guard fixed to the post above the keeper and in the path of the free end of the latch, so that in closing the momentum of the gate will be arrested by the latch riding up the inclined face of the keeper and then striking the guard. This arrests the move-

ment of the gate, and the latch then drops into the keeper.

12 denotes a brace-arm fixed to the arm 5 and having its lower end pivoted to the post 1, as shown.

13 denotes an endless cable which extends around the spider 4 and the guide-pulley 17² on the post 14'. This cable is provided with rings 15' 15', from which a looped rope 16' extends around the guide-pulleys 17 and 17² and thence over the double pulley 18, the looped bight of the rope hanging down to within reach of a person on the ground. A second similar endless cable 13' extends around the spider in the opposite direction and also around the guide-pulley 17³ on the post 14. This cable 13' is also provided with rings 15 15, from which the ends of the looped rope 16 extend around the guide-pulleys 17' 17³ and the double pulley 18, the looped bight of the rope hanging down, as in the first instance, and a person approaching the gate from either direction can by a proper manipulation of the depending ropes 16 or 16' swing the gate open and after passing through close the gate by means of the depending rope on the opposite side.

It will of course be understood that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In combination, the posts 1 and 14, 14', the spider 4, journaled on the post 1, and the guide-pulleys mounted on the posts 14, 14', the looped cables extending in opposite directions from the spider and the looped chains mounted on said guide-pulleys and having their free ends connected to their respective cables, substantially as shown and described.

2. In combination, the posts 1 and 14, 14', the spider 1 journaled on the post 4 and the guide-pulleys mounted on the posts 14, 14',

the braced arm 5 carried by the spider, the gate hinged to said post 1, the pivoted latch and the cord connecting the latch and braced arm, the looped cables extending in opposite 5 directions from the spider, and the looped chains mounted on the said guide-pulleys and having their free ends connected to said cables, substantially as shown and described.

In testimony whereof we have hereunto set

our hands in presence of two subscribing witnesses. 10

CHARLES E. MARSH.
BENJAMIN DAVIS CROSLY.
WALTER BRUNER.

Witnesses:

P. W. PYLE,
C. A. WHYTE.