(No Model.)

W. I. HARP.

GATE.

No. 602,748. Patented Apr. 19, 1898.

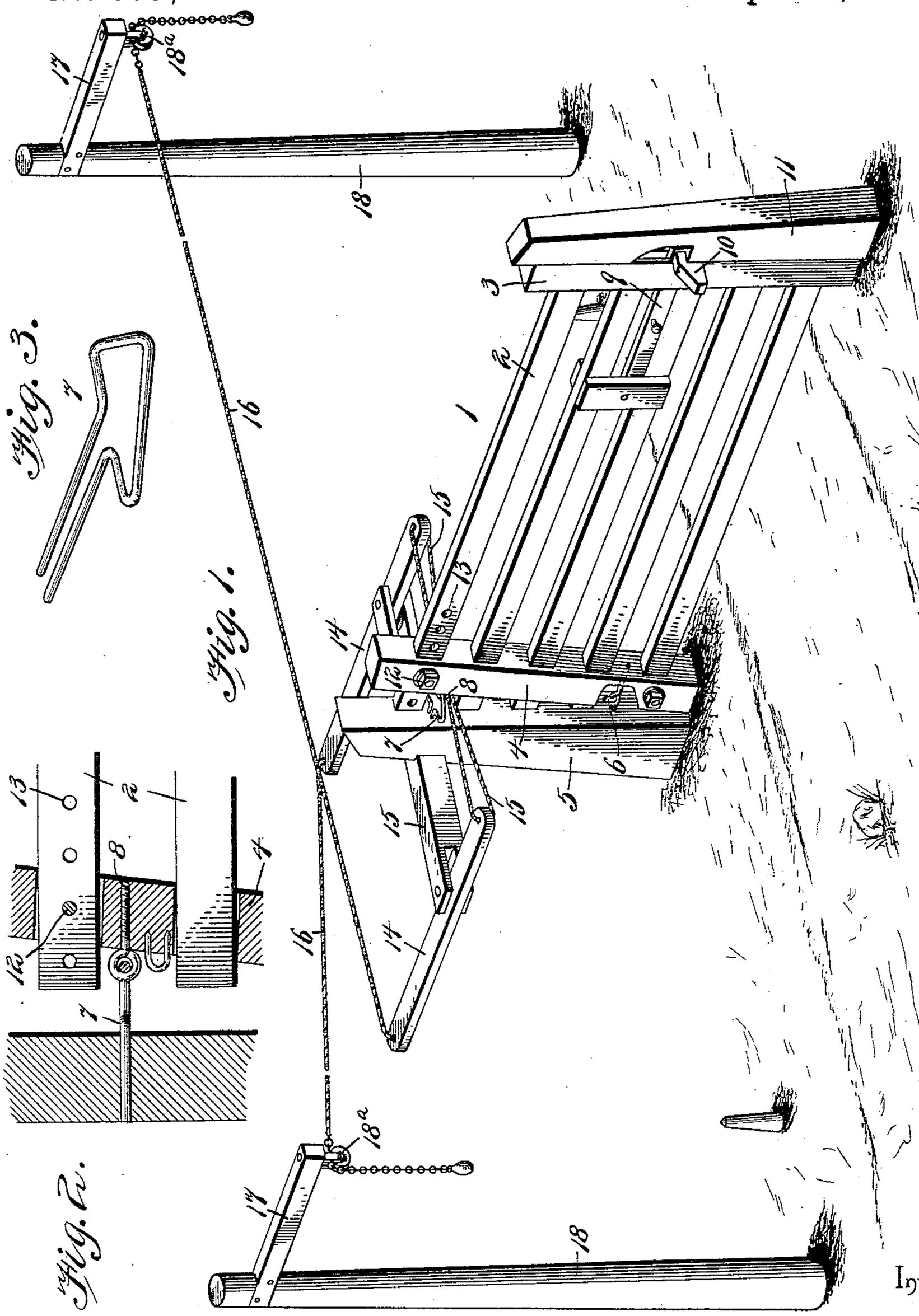

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses

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WILLIAM I. HARP, OF SPARTA, NORTH CAROLINA.

GATE.

SPECIFICATION forming part of Letters Patent No. 602,748, dated April 19, 1898.

Application filed July 24, 1897. Serial No. 645,843. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM I. HARP, a citizen of the United States, residing at Sparta, in the county of Alleghany and State of North Carolina, have invented a new and useful Gate, of which the following is a specification.

The invention relates to improvements in gates.

The object of the present invention is to improve the construction of swinging gates and to provide a simple and inexpensive one which may be readily operated at a distance from either side of it in order to obviate the necessity of persons dismounting or leaving a vehicle to open and close it.

A further object of the invention is to provide a swinging gate which will remain open while a vehicle is passing through the gateway and which will be capable of ready adjustment to enable it to open more or less quickly in order that persons may open and close it without checking a team.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a gate constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the inner end of the gate. Fig. 3 is a detail view of the triangular eye of the hinge-post.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

1 designates a swinging gate constructed of any suitable material and consisting, preferably, of horizontal bars 2 and front and rear end bars 3 and 4, connecting the horizontal bars and provided with slots or openings to receive the same.

The gate is connected at its bottom with a hinge-post 5 by an ordinary hinge 6 and at its top by a triangular eye 7 and an ordinary eye 8, linked into the triangular eye. The triangular eye 7, which is provided with a shank, is mounted on the hinge-post, and the eye 8 of the gate is mounted on the rear end bar 4. The upper hinge enables the gate to be tilted upward and rearward by operating mechanism hereinafter described to disengage a latch 9 from a keeper 10 of a latch-post 11 and to cause it to swing open.

The rear end bar 4 of the gate is pivoted at its lower end to the bottom rail, and its upper end is adjustably secured to the top bar or rail by a pin or bolt 12, which is adapted to pass through any one of a series of perforations 13 of the said top bar or rail of the gate, whereby the gate may be made to open with greater or less rapidity.

The gate is operated by a pair of horizontally-disposed levers 14, fulcrumed between their ends on a bar 15, which is secured to the hinge-post or other suitable support and which projects from opposite sides of the gate. The front ends of the levers 14 are connected by cords 15 or other flexible connections with the back of the gate, and the rear terminals of the levers 14 are attached to crossed operating ropes or cords 16, which extend to arms 17 of uprights 18, the uprights being located a suitable distance from the gate to enable a person driving toward the gate to open the same without slackening his speed. The operating ropes or cords 16 pass through suitable guides, preferably consisting of depending pulleys 18, and they may be provided at the pulleys with chains to prevent them from being readily worn or broken.

It will be seen that the operating mechanism is positive and reliable and that it will enable persons to drive through a gateway without slackening the speed of the vehicle or dismounting.

It will also be apparent that the gate is capable of adjustment to enable it to open with sufficient rapidity and that as an ordinary latch is employed it may be readily opened by persons on foot.

What is claimed is—

1. The combination of a hinge-post provided at its top with a horizontal triangular eye, a gate provided at its back with an adjustable end bar disposed at an inclination, pivoted at its lower end and adjustably secured at its top, whereby its degree of inclination may be varied, a hinge connecting the bottom of the gate with the hinge-post, an eye mounted on the upper portion of the gate and linked into the triangular eye, and operating mechanism connected with the back of the gate, substantially as described.

2. The combination of a hinge-post provided at its top with a triangular eye, a gate provided at its top with a series of perforations and having an inclined rear end bar pivoted at its bottom, a fastening device passing through the inclined end bar and through one of the said perforations, a hinge connecting the bottom of the gate with the hinge-post, an eye mounted on the gate near the top thereof and linked into the triangular eye, horizontal operating-levers located at opposite sides of the gate and connected at their front terminals with the same, and the crossed operating-ropes connected with the rear terminals of the levers and extending from opposite sides of the gate, substantially as described.

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

WM. I. HARP.

Witnesses:
J. N. EDWARDS,
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