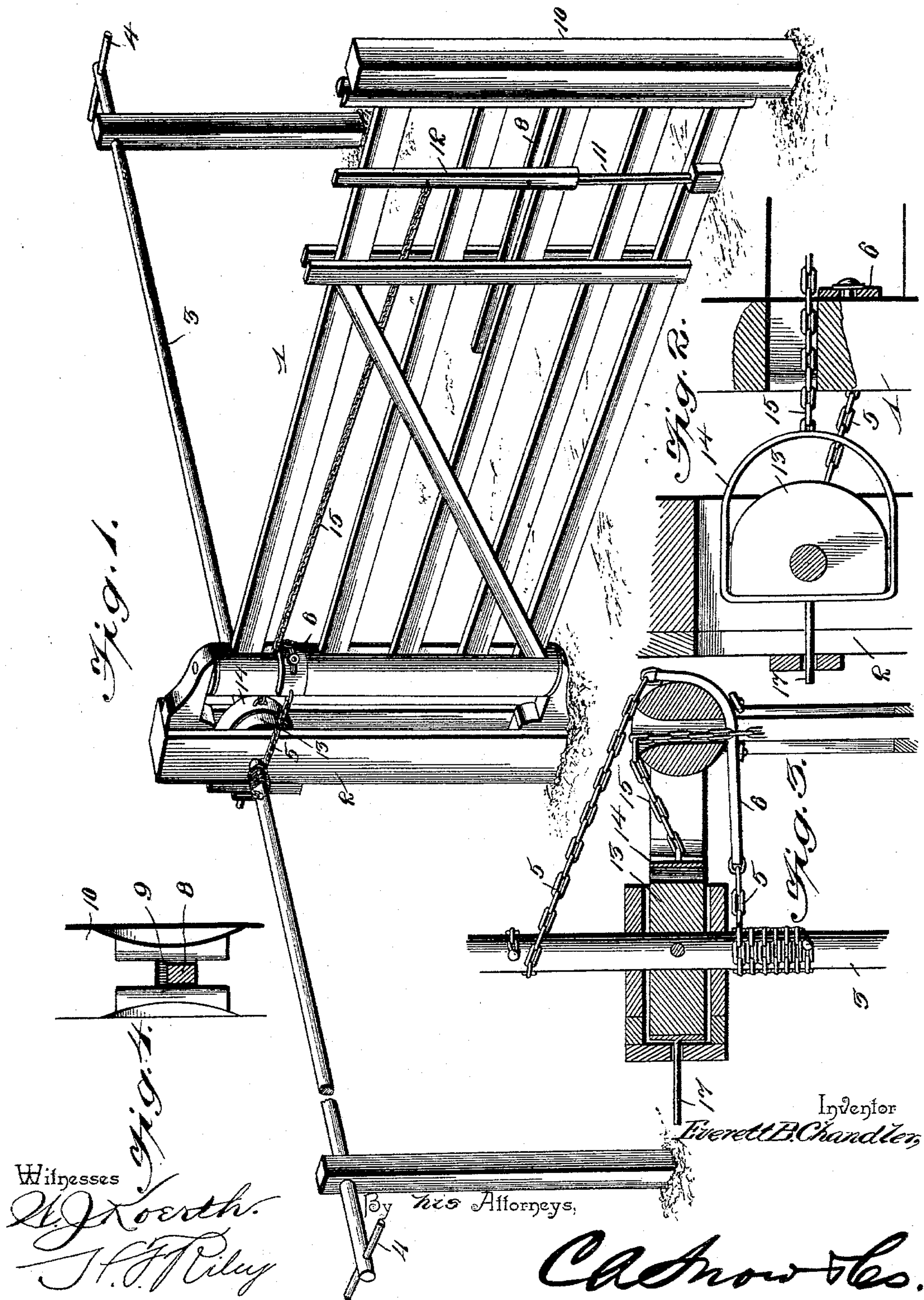


(No Model.)

E. B. CHANDLER.  
GATE.

No. 583,978.

Patented June 8, 1897.





# UNITED STATES PATENT OFFICE.

EVERETT B. CHANDLER, OF COLUMBIA, MISSOURI, ASSIGNOR OF ONE-HALF  
TO BENJAMIN E. TODD, OF SAME PLACE.

## GATE.

SPECIFICATION forming part of Letters Patent No. 583,978, dated June 8, 1897.

Application filed March 24, 1897. Serial No. 629,053. (No model.)

*To all whom it may concern:*

Be it known that I, EVERETT B. CHANDLER, a citizen of the United States, residing at Columbia, in the county of Boone and State of Missouri, 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 simple, inexpensive, and efficient means for enabling a gate to be opened and closed at a distance from each side of it, so that it may be operated without dismounting or leaving a vehicle.

The invention consists in the construction and novel combination and arrangement of parts 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 longitudinal sectional view of the same. Fig. 3 is a horizontal sectional view. Fig. 4 is a detail view showing the keeper of the latch-post.

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

1 designates a swinging gate hinged to a post or support 2 in any suitable manner and adapted, in opening and closing, to swing in either direction in order to open the way for a person or vehicle approaching the gate from either side.

The gate is operated by a horizontal shaft 3, centrally journaled on the post or support 2 and extending from opposite sides of the same a sufficient distance to enable it to be operated from a vehicle or horseback with the horse coming in contact with the gate. The ends of the shaft are provided with handles 4, and it is connected with the gate at points at opposite sides of the post or support 2 by means of chains 5 or other suitable flexible connections, reversely wound upon the shaft, connected to the same, and having their outer ends secured to the gate at opposite sides thereof by means of a strap 6.

When the shaft is rotated, one of the chains is wound around the shaft and the other

chain is unwound therefrom, whereby when the shaft is rotated the gate will be swung in one direction or the other according to the direction of rotation of the shaft. The strap 6, which is centrally secured to the rear end bar of the gate, extends from opposite sides thereof and is provided with a central longitudinal slot through which pass the fastening devices for securing the strap of the end bar. The strap 6 is flexible, being preferably constructed of leather, or it may be made of any other suitable material.

The gate is provided with a sliding latch-bar 8, which is normally maintained extended in position for engaging a keeper 9 of a latch-post 10 by a spring 11, secured to the gate and to a bar 12. The bar 12, which is arranged in a suitable guide or keeper, extends above the gate and serves as a handle for manipulating the latch.

The latch is automatically operated, when the shaft is rotated, by means of a cam 13, mounted on the shaft, and a sliding yoke 14, encircling the cam and connected with the latch by a chain 15, which extends from the front portion of the yoke to the bar 12 and which passes through an opening of the rear end bar of the gate. The cam is substantially segmental and the yoke which encircles the cam is substantially semicircular, being provided with a straight vertical rear side and a curved front portion, and it is provided with a horizontal rod or stem 17, which is guided on the support or post 2.

The post or support 2, which may be constructed in any suitable manner, is provided with a vertical opening or space to receive the cam and the yoke, which are also disposed vertically.

It will be seen that the gate is simple and comparatively inexpensive in construction, that it is positive and reliable in operation, and that it is adapted to be readily operated a distance from either side of it without dismounting a horse or leaving a vehicle. It will also be apparent that the gate in opening swings away from the operator and cannot come in contact with a horse or team.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacri-



ficing any of the advantages of this invention, such as the construction of the gate and the manner of mounting the same.

What I claim is—

5 1. The combination of a swinging gate, a horizontal shaft extending from opposite sides of the gate, the flexible connections reversely wound around the shaft and connected with the gate at opposite sides there-  
10 of, a vertically-disposed cam mounted on the shaft and located in rear of the gate, a vertical yoke encircling the cam and arranged to be engaged by the same, whereby it is moved rearward, and a latch mounted on the gate and  
15 connected with the yoke, substantially as and for the purpose described.

2. The combination of a swinging gate, a horizontal shaft journaled in suitable bearings in rear of the gate, the flexible connections reversely wound around the shaft and  
20 connected with the gate at opposite sides thereof, a vertical cam mounted on the shaft, the substantially semicircular yoke encircling the cam and provided with a rearwardly-ex-  
25 tending stem arranged in a suitable guide, a

latch-bar mounted on the gate, a handle-bar connected with the latch and provided with a spring adapted to hold the latch normally extended, substantially as described.

3. The combination of a swinging gate, a 30 horizontal shaft extending from the opposite sides of the gate, the slotted strap secured to the gate by fastening devices arranged in the slot of the same, the flexible connections reversely wound around the shaft and at- 35 tached to the ends of the strap, a vertically-disposed cam mounted on the shaft and located in rear of the gate, a vertical yoke encircling the cam and arranged to be engaged by the same, whereby it is moved rearward, 40 and a latch mounted on the gate and connected with the yoke, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 45 the presence of two witnesses.

EVERETT B. CHANDLER.

Witnesses:

A. G. SPENCER,  
W. W. GARTH.