

(No Model)

N. KIRCHNER.
END GATE FASTENER.

No. 583,198.

Patented May 25, 1897.

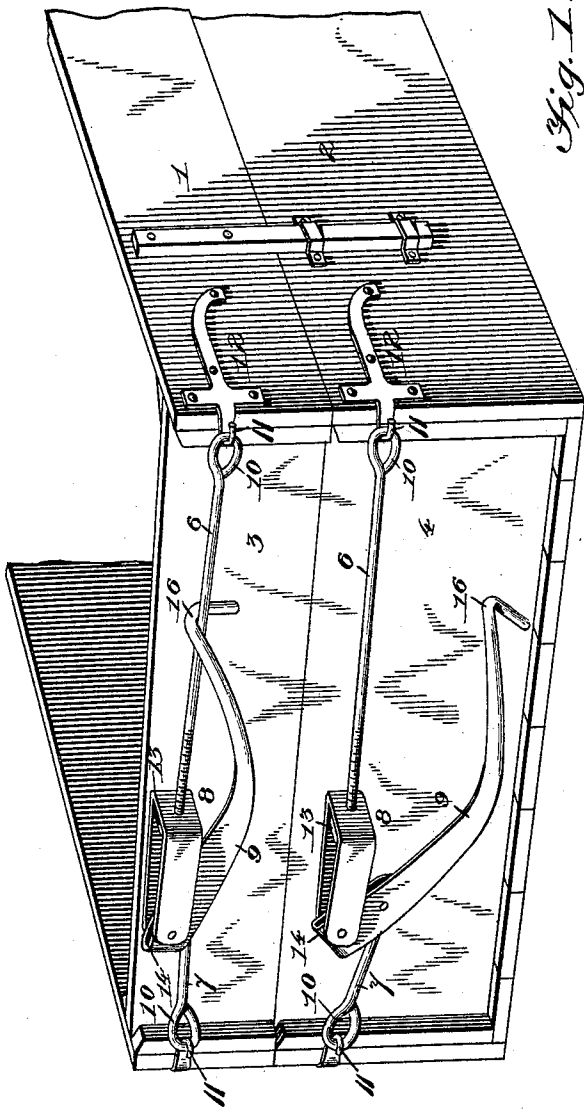


Fig. 1.

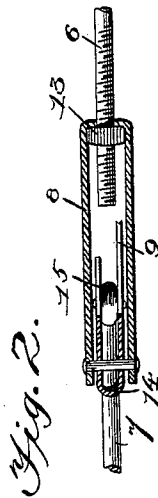


Fig. 2.

Mundy Kirchner,^{Inventor}

Witnesses

Witnesses
T. L. Mockaber

By *his* Attorneys,

Chenoweth

UNITED STATES PATENT OFFICE.

NUNDY KIRCHNER, OF ANTIOCH, MISSOURI.

END-GATE FASTENER.

SPECIFICATION forming part of Letters Patent No. 583,198, dated May 25, 1897.

Application filed August 19, 1896. Serial No. 603,265. (No model.)

To all whom it may concern:

Be it known that I, NUNDY KIRCHNER, a citizen of the United States, residing at Antioch, in the county of Clark and State of Missouri, have invented a new and useful End-Gate Fastener, of which the following is a specification.

The invention relates to improvements in end-gate fasteners.

10 The object of the present invention is to improve the construction of end-gate fasteners and to provide a simple, inexpensive, and efficient device which will dispense with a transverse rod for connecting the sides of a
15 wagon body or box and which will be adapted to be readily fastened and unfastened without screwing a nut on or off and capable of ready adjustment to secure the desired degree of tightness.

20 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.

25 In the drawings, Figure 1 is a perspective view of a portion of a wagon body and box provided with end-gate fasteners constructed in accordance with this invention, one of the fasteners being shown locked and the other
30 unlocked. Fig. 2 is a horizontal sectional view of a portion of the end-gate fastener, the same being locked.

Like numerals of reference designate corresponding parts in both figures of the drawings.
35

1 designates a top box mounted upon a wagon-body 2 in the ordinary manner, and end-gates 3 and 4 of the top box and wagon-body are secured by end-gate fasteners, comprising oppositely-disposed rods 6 and 7, a
40 loop 8, adjustably connected to the inner end of the rod 6, and an operating-lever 9, fulcrumed on the loop, connected with the inner end of the rod 7 and adapted to draw the rods
45 together to cause the sides of the body and box to clamp the end-gates. Each rod is provided at its outer end with a loop 10, engaging hooks 11 of the adjacent side of the box or body, and the hooks 11, which extend trans-
50 versely of the body and box at the rear ends thereof, are provided with substantially T-shaped attachment-plates 12, secured to the

outer faces of the sides of the box and body and consisting of vertical arms and a longitudinal shank, the latter having its forward
55 end extended downward slightly. This construction of attachment-plates strengthens the parts and is firmly secured in position by bolts or other fastening devices.

The loop 8, which is substantially rectangular, is open at one end and closed at the other, and the closed end is provided with a perforation through which passes the inner
60 end of the rod 6. The inner end of the rod 6 is threaded and receives a nut 13, arranged
65 within the loop adjacent to the closed end thereof and adjustably connecting the rod 6 with the loop. By rotating the rod after it has been disconnected from its hook the de-
70 sired adjustment can be obtained.

The inner end 14 of the lever 9 is provided with two sides, preferably formed by bending the metal of the lever on itself, as shown, and it receives the inner end of the rod 7 be-
75 tween the said sides, the inner end of the rod 7 being provided with an eye 15 for the reception of a pivot for connecting the rod to the lever.

The outer or handle portion of the lever is curved, as shown, and a hook 16 is provided
80 at the outer end of the lever for engaging the rod 6 to secure the parts when locked, as clearly illustrated in Fig. 1 of the accompanying drawings. The lever is located beneath
85 the rod 6 and the loop. It extends downward from the latter, and its curved portion arranges the hook in position for engaging the rod 6. By arranging the rod in this manner the lever swings downward automatically as
90 soon as the hook is released. By swinging the outer portion of the lever upward and engaging its hook with the rod the parts are locked, and by disengaging the hook from the rod the parts are unlocked.

It will be seen that the device is exceedingly simple and inexpensive in construction,
95 that it possesses strength and durability, and that it will enable an end-gate to be quickly locked and unlocked.

What I claim is—

1. An end-gate fastener comprising a straight loop having one end open and the other end closed, the rods 6 and 7 provided
100 at their outer ends with means for detachably

engaging the sides of a wagon-body, the inner
end of the rod 6 being threaded and engag-
ing a suitable threaded perforation at the
closed end of the loop, whereby the rod is
5 adapted to be adjusted longitudinally, and a
lever located beneath the loop, fulcrumed at
its inner end in the open end of the same and
pivoted directly to the inner end of the rod
7, said lever being provided at its outer end
10 with a hook adapted to engage over the rod 6,
substantially as and for the purpose de-
scribed.

2. The combination of a substantially rec-
tangular loop having straight sides open at
15 one end and provided at its other end with a
perforation, the rods 6 and 7 provided at their
outer ends with means for engaging the sides
of the wagon-body, the rod 6 having its inner
end threaded and extended through the per-

foration at the closed end of the loop, a nut 20
loosely arranged within the loop at the closed
end thereof and engaging the threaded end
of the rod, and a lever provided at its inner
end with two sides, fulcrumed within the
open end of the loop and connected directly 25
to the inner end of the rod 7, said lever being
located beneath the rectangular loop and hav-
ing its outer portion curved and provided
with a hook engaging over the rod 6, substan-
tially as described. 30

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

NUNDY KIRCHNER.

Witnesses:

G. M. HILLER,
W. L. MONCRILL.