## (No Model.)

## No. 256,577.

L. L. LIGHTCAP.

## GATE LATCH.

Patented Apr. 18, 1882.

Fig.1.

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Fig.3.

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Inventor; Lonard & Lightcap 4 Dy crowlber Attys

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UNITED STATES PATENT OFFICE.

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SPECIFICATION forming part of Letters Patent No. 256,577, dated April 18, 1882. Application filed August 20, 1881. (No model.)

LEONARD L. LIGHTCAP, OF HAZEL GREEN, WISCONSIN.

GATE-LATCH.

To all whom it may concern:

Be it known that I, LEONARD L. LIGHTCAP, of Hazel Green, in the county of Grant and State of Wisconsin, have invented a new and 5 useful Improvement in Gate-Latches; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon. The object of this invention, which relates to that class of gate-latches known as "gravitating latches," is to provide a latch that shall be simple in construction, afford ready and cheap means of attachment to the gate, be effect. 15 ive at all times in its operation, and be manufactured with very little expense; and to this end the invention consists in the peculiar construction and arrangement of the latch proper and the gravitating handle adapted to auto-20 matically operate said latch, the latch and its handle being made of one piece of metal provided with certain novel and simple means for

provided, as shown, and thus securely fasten the gate. The latch is pivotally attached to the gate by means of a screw or pin, a', pass- 55 ing through the part A' and the hole b, with which the latch is provided, and is arranged in such a manner in the slot a, through which it passes, that the part provided with hole b shall approach as near as possible to the up- 60 per part of said slot and permit the proper movement of the latch and its operating-handle. The latch also is provided with a slot, b', arranged as shown in Fig. 2. After the latch has been secured to the gate a screw or pin,  $a^2$ , 65 is passed through the part A' and the slot b'directly under and in line with the screw that secures the latch within said part. This slot b' is made of sufficient length to allow the latch. proper to readily free itself from the locking. 70 post when opening the gate, which is done by simply raising the handle end B, and yet not allow said handle to be raised so far as not to be operative by its own weight in closing and fastening the gate. Although this slot is the 75 preferable means employed by me to limit the movements of the latching device, the same result might be quite as readily and simply accomplished by providing the part A' with slots cut upon each side of slot a, said slots regis- 80 tering with each other, and being of similar construction and corresponding to the slot b'in size, and, instead of the slot in the latch, providing it with a pin whose ends shall enter the slots in the part A', and thus allow the latch 85to move back and forth in the same manner as before described. Upon either side of the recess c the gate-post is cut away to form inclined planes  $c^2$ , so that when closing the gate the end of the latch, 90 striking against the incline, will be forced back, thus elevating its heavier end the proper distance to automatically by its own weight throw the latch forward into the locking-recess the 95 In the foregoing reference has been made

limiting the movements of the operating-handle and for attaching the device to the gate, all 25 as more fully hereinafter set forth and claimed. In the accompanying drawings, Figure 1 is a perspective view representing a two-way

a perspective view, representing a two-way swinging gate provided with my improved latch; Fig. 2, a perspective view of the latch
30 detached, and Fig. 3 a perspective view of a form of latch adapted to be attached to gates swinging one way only.

The gate A is secured to the gate-post by means of the hinges commonly used on gates
35 adapted to be swung both ways. In the post A', which forms the front portion of the gate-frame, a slot, a, is cut. This slot passes transversely through A', and should be made of a sufficient width and length to allow the latch,
40 presently to be described, to move freely therein.

B represents the operating handle, and B' the latch proper, of my improved latching deinstant it passes said incline. vice, which is formed of one piece of metal or other suitable material of a proper width 45 and thickness to fit properly into the slot a, only to my latching device as applied to gates adapted to swing both ways; but it is evident and of the peculiar shape and construction the device could be applied as well to gates shown in Fig. 2. This latch is so constructed that its greatest weight is in the handle end opening only one way, the difference in construction tion and arrangement of operative parts con-B, so that when the device is properly secured 50 to the gate the weight of this part will effectsisting mainly in the employment of an inverted keeper attached to the gate-post C, instead of ively operate to throw the latch proper forward providing said post with the recess c and ininto the recess c, with which the gate-post C is f

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clines  $c^2$ , and in using a latching device simiprovided with the transverse slot a, and latch 15 lar to the form and construction shown in Fig. ing device B B', provided with hole b and slot 3 attached to the outside of the gate, instead b', whereby said device may be pivotally seof being passed through a slot therein, as herecured in slot a by means of pin a' and limited 5 inbefore described. in its movements therein by means of pin  $a^2$ , The advantages of my latching device conthe several parts constructed and arranged 20 sist mainly in its simplicity of construction and substantially as described, shown, and for the operation and in the comparatively small cost purpose set forth. incident to its manufacture. This specification signed and witnessed this What I claim, and desire to secure to myself 5th day of July, 1881. The combination, with the gate-post C, pro-Witnesses: MONROE M. CADY, vided with recess c and inclines  $c^2$ , arranged GEO. M. LIFE. on either side, of gate A, having its front post

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