(No Model.)

D. J. OLINGER.

GATE HINGE.

No. 353,962. Patented Dec. 7, 1886.

Fig. 1.

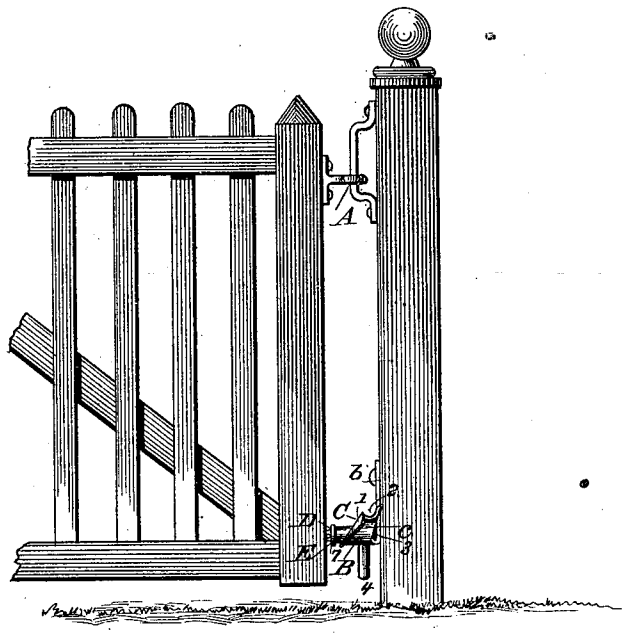


Fig. 2.



Fig. 3.

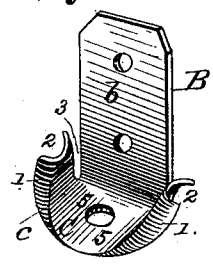
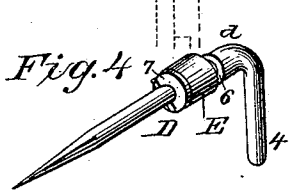


Fig. 4.



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GATE-HINGE.

SPECIFICATION forming part of Letters Patent No. 353,962, dated December 7, 1886.

Application filed July 7, 1886. Serial No. 207,359. (No model.)

To all whom it may concern:

Be it known that I, DAVID J. OLINGER, of Anson, in the county of Jones and State of Texas, have invented a new and useful Improvement in Gate-Hinges, of which the following is a specification.

My invention is an improvement in gate-hinges; and it consists in certain features of construction and novel combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a front view of a part of a gate provided with my improved hinge. Fig. 2 is a top plan view of same, with the gate closed in full and open in dotted lines. Fig. 3 represents the post or base section of the hinge in detail, and Fig. 4 represents the gate-section of such hinge in detail, as will be described.

The gate and post may be of any desired construction, and the upper hinge, A, may be of any suitable construction which will permit the elevation of the gate usually incident to the use of my hinge.

While the invention is especially intended for use on gates, in which connection I will now describe it, it is manifest it might be used in connection with window blinds or shutters, and in other similar relations. The section B of my improved hinge, which section will preferably be made of malleable metal—such as malleable iron—will, for convenience of reference, be termed the "post" or "base" section. It is adapted for connection with the post, preferably, by forming it with a back plate, *b*, having screw-holes, as shown; but manifestly it might be provided with a screw-shank or other suitable construction to facilitate its attachment to the post. The construction as shown, however, is preferred. In this construction the body C of such post-section is secured to and projected outwardly from the lower edge of the plate *b*. The side edges of such body are bent up at *c*, forming inclines on which move the gate-section, presently described. These inclines *c* meet at their lower ends at the front of the body C, and their edges are slightly turned, as shown, forming flanges 1, to provide a broad bearing for the gate-section in its movements, and so avoid any great wear of the parts, and at the same time provide such broad bearing without unnecessarily increasing the weight of the section B.

At the upper end of the inclines *c*, I form notches or seats 2, fitted to receive the gate-section. It will be noticed that spaces 3 are left between the inner edges of the inclines and the post, so that water, trash, &c., will not accumulate in the base B. The gate-section D is in practice secured to the gate, and is engaged with the base-section B. In the construction shown, this engagement is effected by forming the section *d* with a depending arm, 4, which enters an opening or socket, 5, in the base. This section D is formed, near its outer end, with a shoulder, 6, and the roller E is journaled on the body of section D, and bears against the shoulder 6. It is usual to arrange a washer, 7, between the roller 6 and the gate, as shown in Fig. 1.

The operation will be simple and readily understood. When the gate is closed, its gate-section will rest between the lower ends of the inclines, and when pushed to either side it will resume its closed position on being released unless it be pushed so far as to cause its section D to enter one of the notches 2, when the gate will be held open until forcibly pushed out of such notches, when it will close by reason of the inclines, as will be readily understood.

Having thus described my invention, what I claim as new is—

1. In a gate-hinge, a post or base section, B, having a body-plate, C, having its side edges bent up at *c*, and having such bent-up edges provided with flanges 1 and notches 2, substantially as set forth.

2. The improved gate-hinge consisting of the post or base section, having a perforated plate, C, the edges of which are bent up at *c*, and formed with flanges 1 and notches 2, and provided with the plate *b*, connected with the body of plate C, and separated at 3 from the portions *c* thereof, the gate-section D having a depending arm, 4, fitted to enter the perforation in the base C, and having a second arm fitted for connection with the gate, and the roller E, journaled on said second arm, substantially as set forth.

3. The gate-section D, comprising a main portion provided with a shoulder, 6, and an arm, 4, depending from the outer end of said main portion, combined with a roller, E, journaled on said main portion up against the shoulder 6, and the post or base section provided with an opening or socket fitted to receive the arm 4, and with an incline, substantially as described, and for the purposes specified.

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Witnesses:
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