No. 795,634. PATENTED JULY 25, 1905.

H. MEINECKE.

GATE HINGE.

APPLICATION FILED DEC. 8, 1904.

Fig. 1.

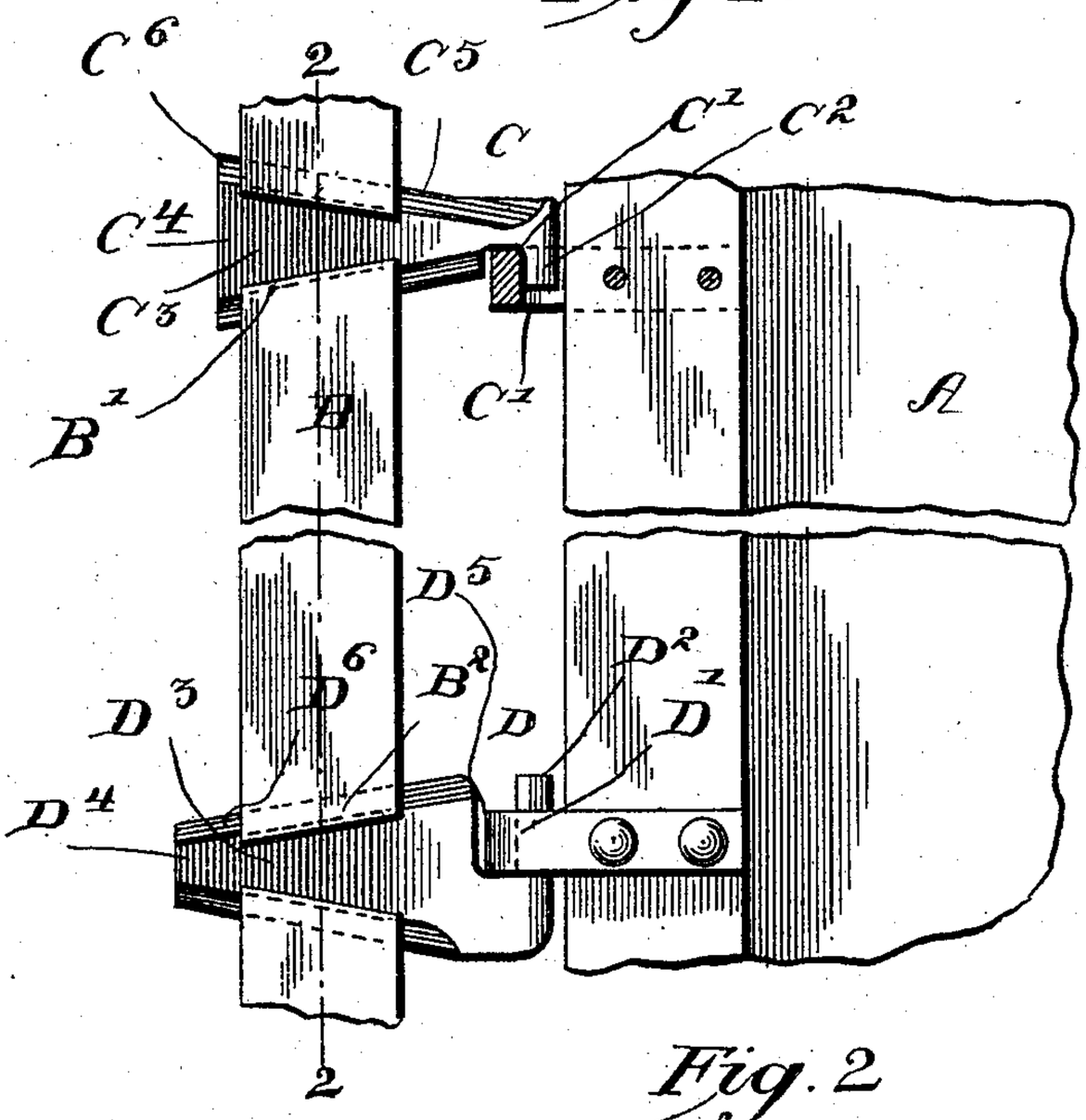
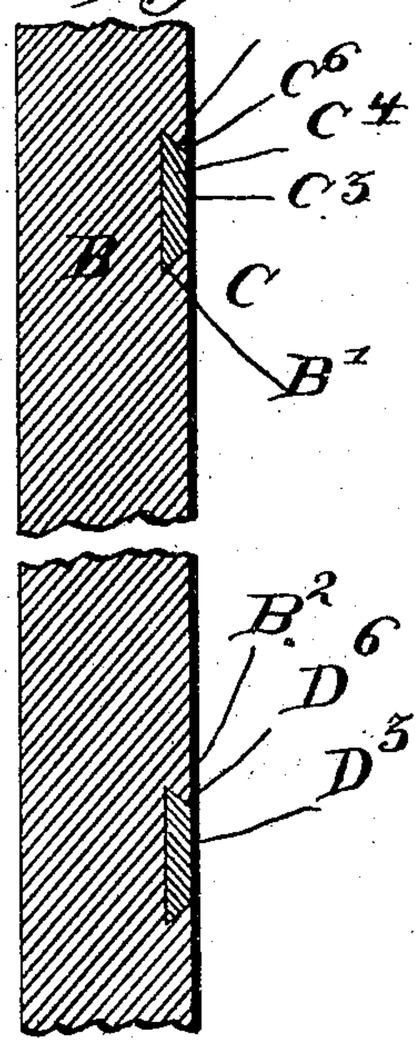


Fig. 2.



WITNESSES:

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HENRY MEINECKE, OF TOMAH, WISCONSIN.

GATE-HINGE.

No. 795,634. Specification of Letters Patent. Patented July 25, 1905.

Application filed December 8, 1904. Serial No. 236,041.

To all whom it may concern:

Be it known that I, HENRY MEINECKE, a citizen of the United States, and a resident of Tomah, in the county of Monroe and State of Wisconsin, have made certain new and useful Improvements in Gate-Hinges, of which the following is a specification.

My invention is an improvement in hinges for gates and similar heavy objects wherein the weight of the gate or the like exerts a heavy strain upon the hinge; and one of the objects of the present invention is to provide a novel construction whereby the weight of the gate will operate to tighten the hinge in place; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a front elevation, partly broken away, of a gate, the hinge-post, and the hinge-sections embodying my invention; and Fig. 2 is a vertical section on about line 2 2 of Fig. 1.

In the construction shown the gate A is connected with the hinge-post B by the hinges C and D, having sections C′ and D′ secured to the gate, the hinge-sections C′ and D′ having eyes receiving pintles C^2 and D^2 on the sections C^3 and D^3, which are supported by the gate-post B. The sections C^3 and D^3 are tapered from end to end and reversely, the upper section C^3 tapering from its wide outer end C^4 inwardly toward its narrower end C^5, where it is supplied with the pintle C^2, and the lower section D^3 gradually decreasing in width from its end D^5 adjacent to its pintle D^2 toward its inner end D^4, and said sections C^3 and D^3 are beveled or sloped on their sides C^6 and D^6, and they fit in correspondingly-shaped mortises B′ and B^2 in the hinge-post B.

Regarding the pintle ends of the sections C and D as their outer or front ends, it will be noticed that the upper section C gradually decreases in width toward said front end, while the lower section gradually decreases in width from its said front end toward its opposite or rear end. The purpose of this construction is to enable the weight of the gate, which draws upon the upper section C and pushes upon the lower section D, to tighten the hinge-sections in the mortises or seats B′ and B^2 in the post B, so that the heavier the gate and the greater the stress it exerts upon its hinges the tighter the said hinges will be pressed into contact with the fence-post which supports them. This, it will be noticed, is important, as it dispenses with the necessity of separate fastenings for the hinge-sections on the gate-post and also constructs the said sections so that they will be self-securing and will be pressed tightly into connection with the gate-post by the weight of the gate when supported therefrom.

The construction is simple, inexpensive, and efficiently serves the purpose for which it is intended.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the upper and lower hinge-sections tapered between their ends and gradually decreasing in width in reverse directions, the upper section toward its front end and the lower section toward its rear end, the hinge-post having seats for said hinge-sections, which seats taper in reverse directions, the upper seat gradually decreasing in width from the front side of the post and the lower end toward the rear side of the post and adapted to receive the tapered hinge-section and the gate supported by said hinge-sections substantially as set forth.

2. The combination substantially as herein described, of the gate-post having undercut seats tapered in reverse directions, and the reversely-disposed wedges having hinge connections with the gate and fitting in said undercut seats, substantially as set forth.

HENRY MEINECKE.

Witnesses:
H. B. VANDELL,
HENRY KUPPER.