(No Model.)

E. C. FLINT.

GATE HINGE.

No. 345,294. Patented July 13, 1886.

Fig. 1.

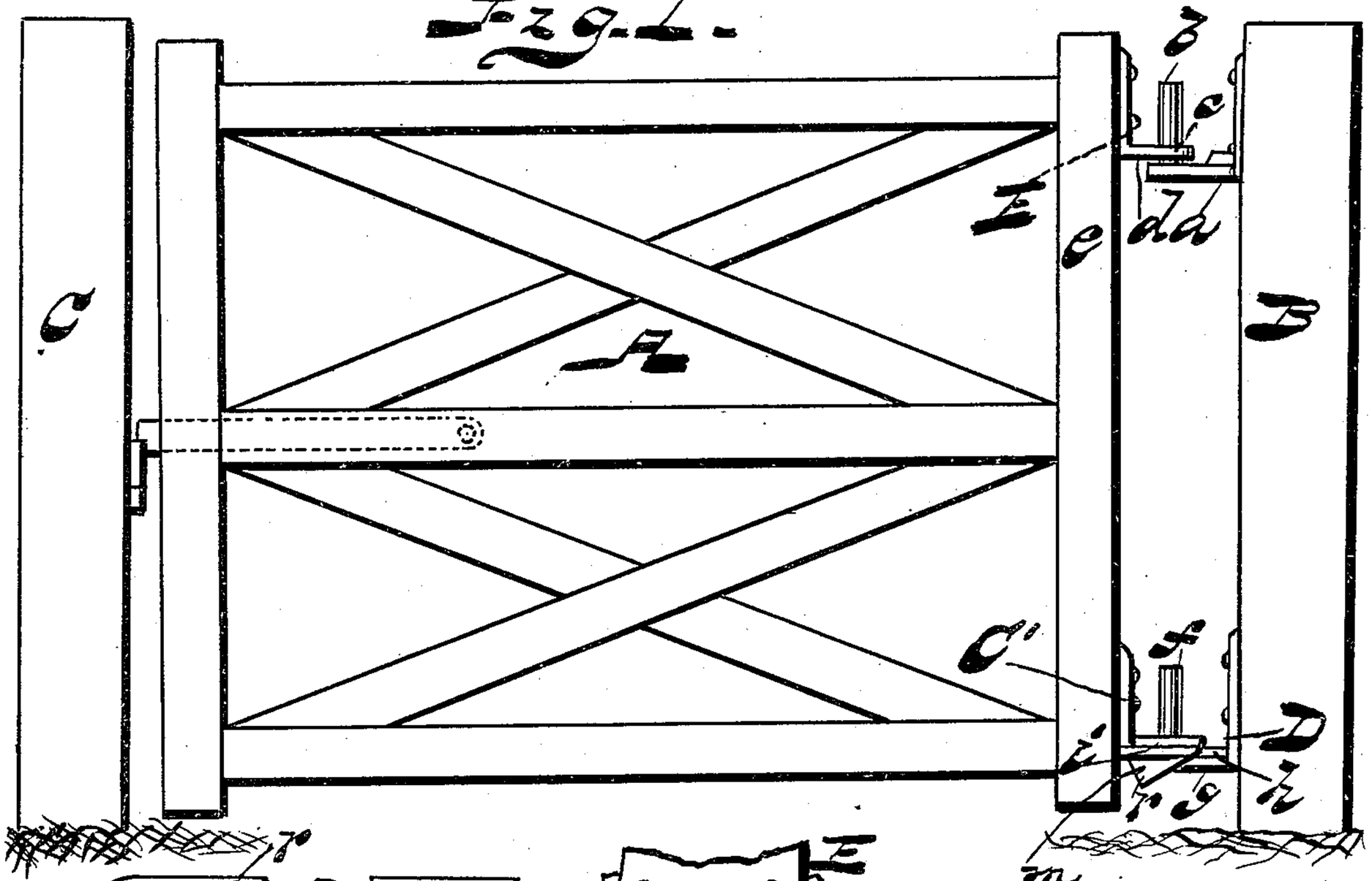


Fig. 5.

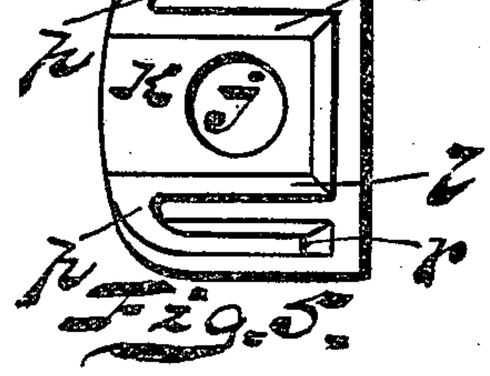


Fig. 6.

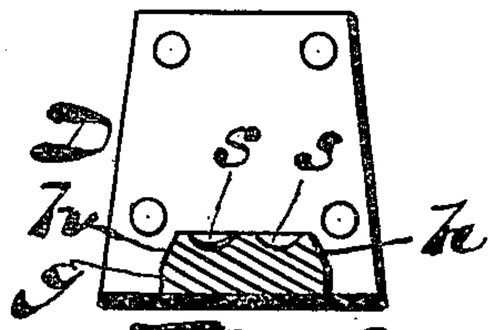


Fig. 2.

Fig. 3.

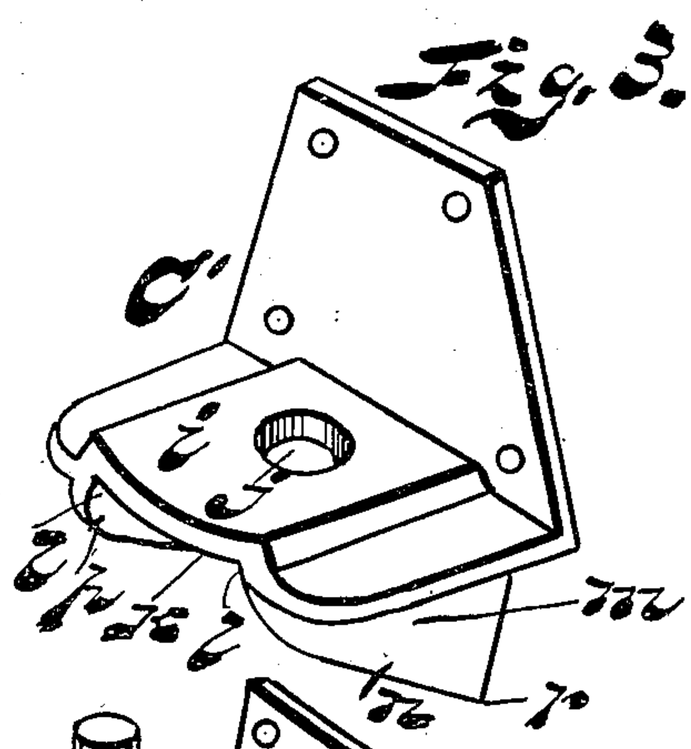
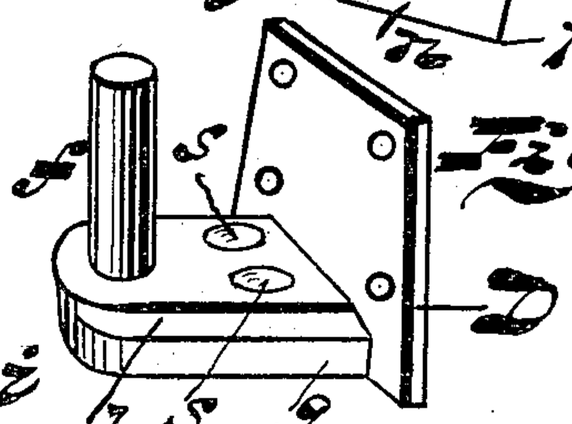


Fig. 4.



WITNESSES

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EBER C. FLINT, OF SAGINAW, MICHIGAN.

GATE-HINGE.

SPECIFICATION forming part of Letters Patent No. 345,294, dated July 13, 1886.

Application filed March 3, 1886. Serial No. 193,848. (No model.)

To all whom it may concern:

Be it known that I, EBER C. FLINT, a citizen of the United States, residing at Saginaw, in the county of Saginaw, State of Michigan, have invented certain new and useful Improvements in Gate-Hinges, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to improvements in gate-hinges; and it consists in the novel construction and arrangement of the same, whereby the gate is held open and automatically closed and locked, all as will be hereinafter fully explained, and particularly pointed out in the appended claim.

The annexed drawings, to which reference is made, fully illustrate my invention, in which Figure 1 represents a front view of my gate. Fig. 2 is a rear view of the gate broken away, showing its position when the gate is open. Fig. 3 is a perspective view of the cam-plate. Fig. 4 is a perspective view of the pintle lower plate. Fig. 5 is a bottom view of Fig. 3; and Fig. 6, cross-section of the pintle arm, Fig. 4.

Referring by letter to accompanying drawings, A designates the gate, and B the gate or hinge post, and C the latch-post. To the face of the post B, near its upper end, is secured the bracket *a*, having the vertical pintle *b*, which engages the eye *c*, formed on the horizontal portion *d* of the bracket E, which is secured to the rear face of the vertical gate-bar *e*, near the upper end thereof.

To the lower portion of the gate or hinge post B is secured a bracket, D, which is provided with a vertical pintle, *f*, on the horizontal portion *g*, which latter has beveled sides *h h* for a purpose hereinafter set forth.

C′ represents a bracket which is secured to the rear face of the gate-bar, and the horizontal portion *i* of which is formed with an eye, *j*, which engages the pintle on the bracket D, and this bracket is provided on its under side with a recess, *k*, the sides *l l* of which are beveled to engage the beveled sides of the post-bracket, and on each side of said bracket C′ are flanges *m m*, which are inclined rearwardly, as at *n*, and intercept the beveled sides of the recess, as shown at *p*, at the rear end of the horizontal portion *i*. These side flanges are also inclined on their forward ends and provide points *r r*, which engage depressions *s s*, formed in the upper face of the horizontal portion *g* of the bracket D, which serve to hold the gate in an open position.

It will be seen by reference to the drawings that I construct the upper horizontal portion of the bracket on the post B, or bracket on the vertical rear gate-bar, somewhat longer than the lower bracket, which causes the gate to incline vertically from the hinge-post. Thus when the gate is started in closing the same will assist the side flanges in shutting the gate, and when closed the beveled sides of the recess in the bracket C′ engages the beveled sides of the bracket D, and thus holding the gate closed. And when the gate is being opened the inclined flanges *m m* ride upon the sides of the bracket until the same is opened its full width, when one of the points *r r* will drop into one of the depressions and retain the gate in an open position, and the gate can be opened either by pulling on it or pushing, and locked open by the point dropping in the depression on the side which the gate swings.

A gate-hinge constructed as herein described is automatic in operation, durable, with nothing to get out of order, and at the same time cheap to manufacture, and in case of deep snows the gate, when opened, rises and clears what obstruction may be in its path, and at the same time lifting the latch from the keeper when the gate is being opened simply by the person pushing or pulling the gate; and, if desired, a latch may be dispensed with, as well as a keeper therefor, as the recess engaging beveled sides of the lower gate-bracket, holds the gate closed.

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

The combination, with the hinge portion D, provided with the pintle *f*, depressions *s s*, and side inclines, *h*, of the portion C′, provided with the raised plate *i*, perforated side flanges, *m m*, having inclined edges *n n* and point *r*, and the recess *k*, provided with the beveled sides *l l*, adapted to engage the beveled sides *h* of the portion D, as described, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EBER C. FLINT.

Witnesses:

GEO. M. WISNER,

HERMAN G. WATZ.