(No Model.)

H. P. SWENSEN.

WAGON END GATE.

No. 292,385. Patented Jan. 22, 1884.

Fig. 1.

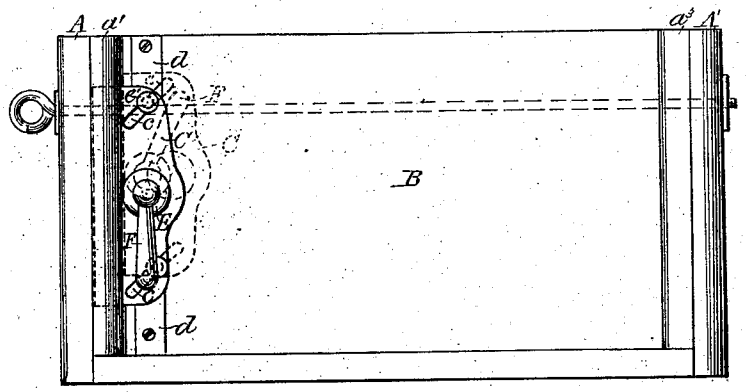


Fig. 2.

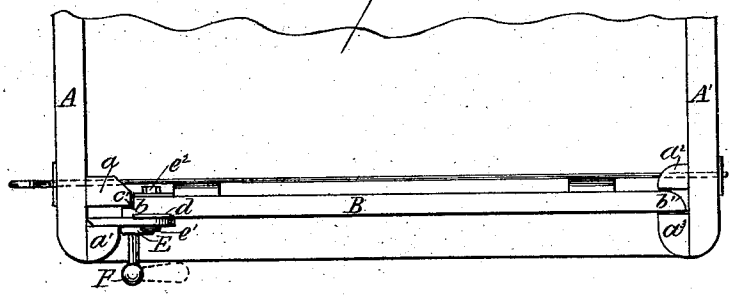


Fig. 3.

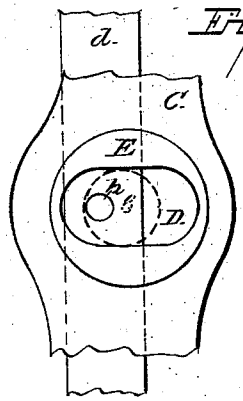
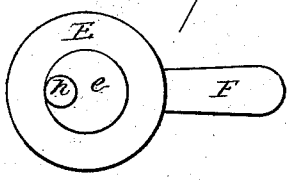


Fig. 4



Witnesses:
E. G. Spruce
M. Kaumheimer

Inventor:
Hans P. Swensen
by Church & Underwood
Attorneys

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

HANS P. SWENSEN, OF RACINE, WISCONSIN, ASSIGNOR TO MITCHELL, LEWIS & CO., OF SAME PLACE.

WAGON END-GATE.

SPECIFICATION forming part of Letters Patent No. 292,385, dated January 22, 1884.

Application filed October 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, HANS P. SWENSEN, of Racine, in the county of Racine, and in the State of Wisconsin, have invented certain new and useful Improvements in End-Gates for Wagon-Bodies; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to end-gates for wagons, and will be fully described hereinafter.

In the drawings, Figure 1 is a rear elevation of a wagon-box with my improved gate applied. Fig. 2 is a top view of the same, and Figs. 3 and 4 show details.

A A′ are the sides of the wagon-box, on the rear end of which are properly fastened the gate-posts *a*, *a′*, a^2, and a^3, between which the gate B is held in place. The gate-post *a* is made thicker than the others, and its inside rear edge forms a shoulder, *c′*, against which the notched end *b* of the gate B may rest, without filling the space between said post *a* and the shutting-post *a′*. The opposite end, *b′*, of said gate B has its inside edge rounded, to allow of its being inserted between the gate-posts a^2 and a^3 without strain, and of its swinging therein until the end *b* has cleared post *a′*, to rest against post *a*. Said gate B is maintained in its place by means of the movable metal plate C. This is provided with the inclined slots *c c*, in each of which is inserted a round bolt, *e′*, secured in said gate B by nut e^2, in the center of said plate C, which is widened at that point for the purpose. A round-ended slot, D, is formed, wherein works the circular base *e* of the handle-plate E, and a lug, *h*, formed in the rim of said base *e*, is inserted through said gate B, and is loosely held therein by a nut screwing on its threaded end, thus securing to the handle-plate E an eccentric bearing against the sides of the slot D. A metal plate, *d*, is embedded in the outside face of said gate B, to secure a smooth bearing-base for the sliding lock-plate C.

From the above description the manipulation of my improved gate is readily understood. The end *b′* of the gate being first bodily inserted between the gate-posts a^2 and a^3, the notched end *b* is pushed in its place against the shoulder *c′* of post *a*. The handle F of the eccentric bearing-plate E being then in the position indicated by the dotted lines of Fig. 1, the lower edge of the slot D is up close to the lug *h*, on which said handle-plate E is eccentrically pivoted. By lowering the handle F to the point shown by the full lines of the drawings, the rim of the circular base *e* will push down the plate C as it works against the lower edge of said slot D, and, as said plate C has to follow the direction which its slots *c c* receive from the bolts *e′*, the gap left between the gate end *b* and the side A of the wagon-box is filled by said plate C, which now rests against the inside face of the shutting-post *a*. By lifting the handle, said plate C is brought to the position shown by the dotted lines, and the gate is freed from the shutting-post *a′*.

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

1. In an end-gate for wagons, a sliding plate provided with two inclined slots, through which project bolts from said gate, and having between same a horizontal slot, in which works the circular base of a handle that is eccentrically pivoted in said gate, whereby as said gate is inserted between the posts it is maintained therein by said sliding plate, as set forth.

2. In an end-gate for wagons, the sliding plate C, having inclined slots *c c*, intermediate slot, D, in combination with the bolts *e′ e′* and handle-plate E, having circular base *e* and eccentric pivoting-lug *h*, substantially as shown and described, and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Racine, in the county of Racine and State of Wisconsin, in the presence of two witnesses.

HANS P. SWENSEN.

Witnesses:

FRANK L. MITCHELL,

STANLEY S. STOUT.