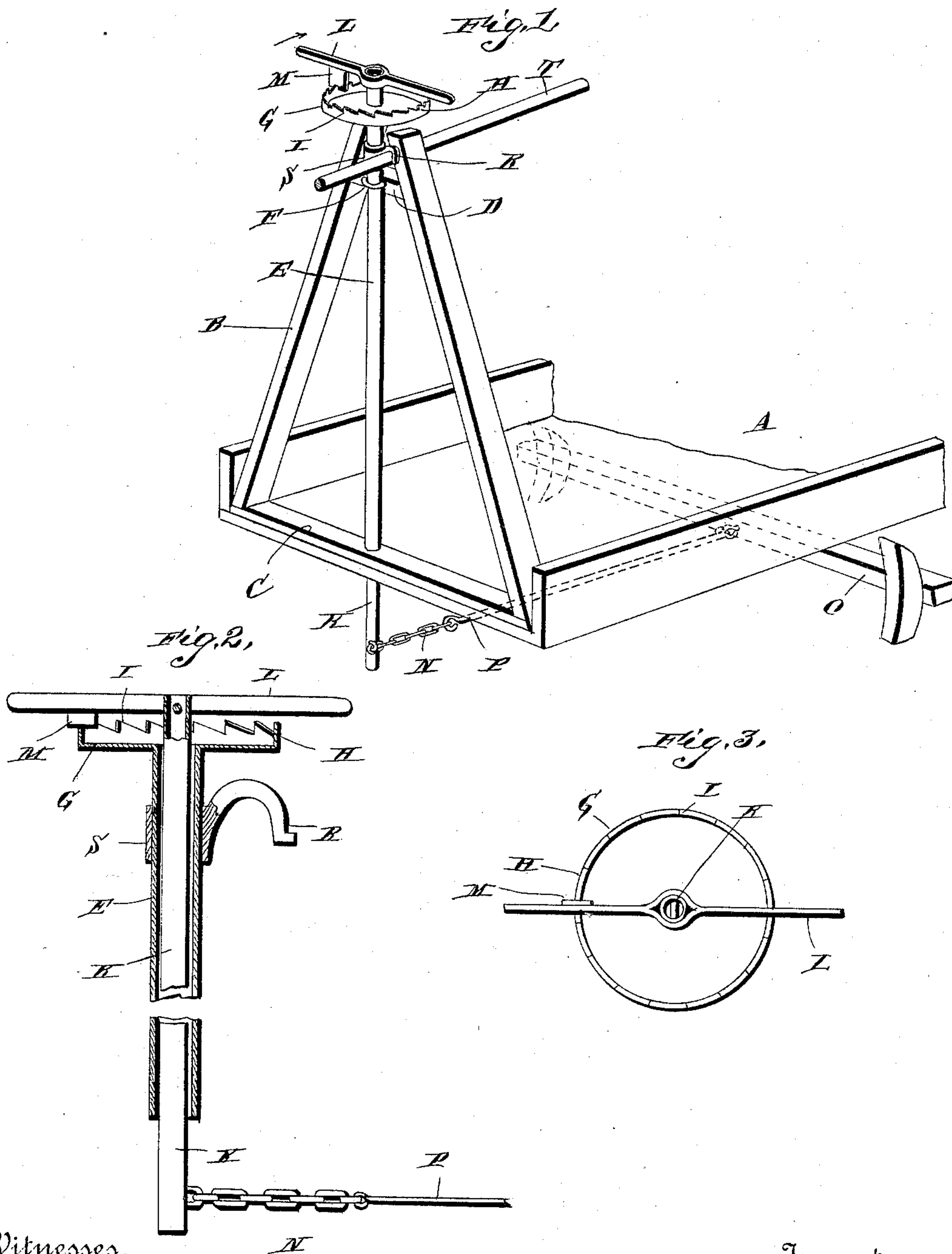


(No Model.)

F. E. LATHROP.  
BRAKE FOR HAY WAGONS.

No. 396,822.

Patented Jan. 29, 1889.



Witnesses.  
*Chas. Taylor,*  
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# UNITED STATES PATENT OFFICE.

FRANK EVERETT LATHROP, OF WICHITA, IOWA.

## BRAKE FOR HAY-WAGONS.

SPECIFICATION forming part of Letters Patent No. 396,822, dated January 29, 1889.

Application filed October 30, 1888. Serial No. 289,554. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK EVERETT LATHROP, a citizen of the United States, residing at Wichita, in the county of Guthrie and State of Iowa, have invented a new and useful Improvement in Brake Attachments for Hay-Wagons, of which the following is a specification.

My invention relates to an improvement in brake attachments for hay-wagons, whereby the brake may be applied by a person stationed on the load of hay; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a hay-rake provided with a brake attachment embodying my improvements. Fig. 2 is a vertical sectional view of my improved brake attachment. Fig. 3 is a top plan view of the same.

The wagon-bed A, of suitable form, has at its rear end the usual standard or rack, B, provided at its lower end with a cross-bar, C, and at its upper end with a cross-bar, D.

E represents a cylindrical tube of suitable length, which is preferably made of gas or water pipe, has its lower end extended through a vertical opening in the center of the bar C, and has its upper end clamped to the cross-bar D by means of a U-shaped clamping-bolt, F, or other suitable device. The upper end of the tube E is provided with a circular disk, G, which has on its upper side an annular flange, H, provided with ratchet-teeth I.

K represents a tube or rod, which is arranged in the tube E, extends entirely through the same, and projects beyond its upper and lower ends for a suitable distance. To the upper end of the tube or rod K is pivoted a lever, L, that is provided with a depending detent, M, adapted to engage the ratchet-teeth I, and thereby lock the tube or rod K in the tube E, as will be readily understood. To the lower end of the tube or rod K is attached a chain, N, and the latter is connected to a brake-bar, O, of the usual or any preferred form, by means of a rod or link, P.

B represents a hook, which has a circular collar, S, at its inner end. The said collar is fitted and adapted to move vertically on the tube E.

The operation of my invention is as follows: The rear end of the boom-pole T, which is commonly employed to secure a load of hay on a wagon, is engaged with the hook R, and thereby the usual lashings employed to secure the rear end of the boom-pole may be dispensed with, the hook serving to effectually secure the rear end of the said pole.

In order to apply the brakes, it is only necessary for the person stationed on the load to turn the tube or rod K, by means of the pivoted lever L, in the direction indicated by the arrow in Fig. 1, and thereby cause the chain to become coiled or wound on the lower end of said tube or rod, and hence apply the shoes on the ends of the brake-beam to the wheels of the vehicle. By engaging the detent M with one of the ratchet-teeth I the brake may be locked when applied, and the brake may be instantly disengaged by releasing said detent, as will be readily understood.

I do not desire to limit myself to the use of this brake attachment in connection with hay-wagons, as the same may be employed for other purposes.

Having thus described my invention, I claim—

1. The combination, with a hay-rack, of the tube E, secured thereto in a vertical position and having the rack I at its upper end, the tube or rod K in the tube E, the lever pivoted at the upper end of said tube or rod K, adapted to rotate the same, and having the detent M to engage the rack, for the purpose set forth, and the chain or connection between the lower end of said tube or rod K and the brake-beam, substantially as described.

2. In brake attachments for hay-wagons, the combination, with the rack or standard, of the tube E, the clamp-bolt securing the same in a vertical position to the hay-rack, the tube or rod K, extending through the tube E and having the lever at its upper end, by which it may be turned, devices, substantially as set forth, to lock the tube or rod K



in the tube E, the chain secured to the lower  
end of the tube or rod and adapted to be  
connected to a brake bar or beam, and the  
hook to engage the boom-pole, and having  
5 the collar at its inner end movable vertically  
on the tube E, substantially as described.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in  
presence of two witnesses.

FRANK EVERETT LATHROP.

Witnesses:

LAWRENCE N. NESSELWAD,  
G. W. JUSTICE.