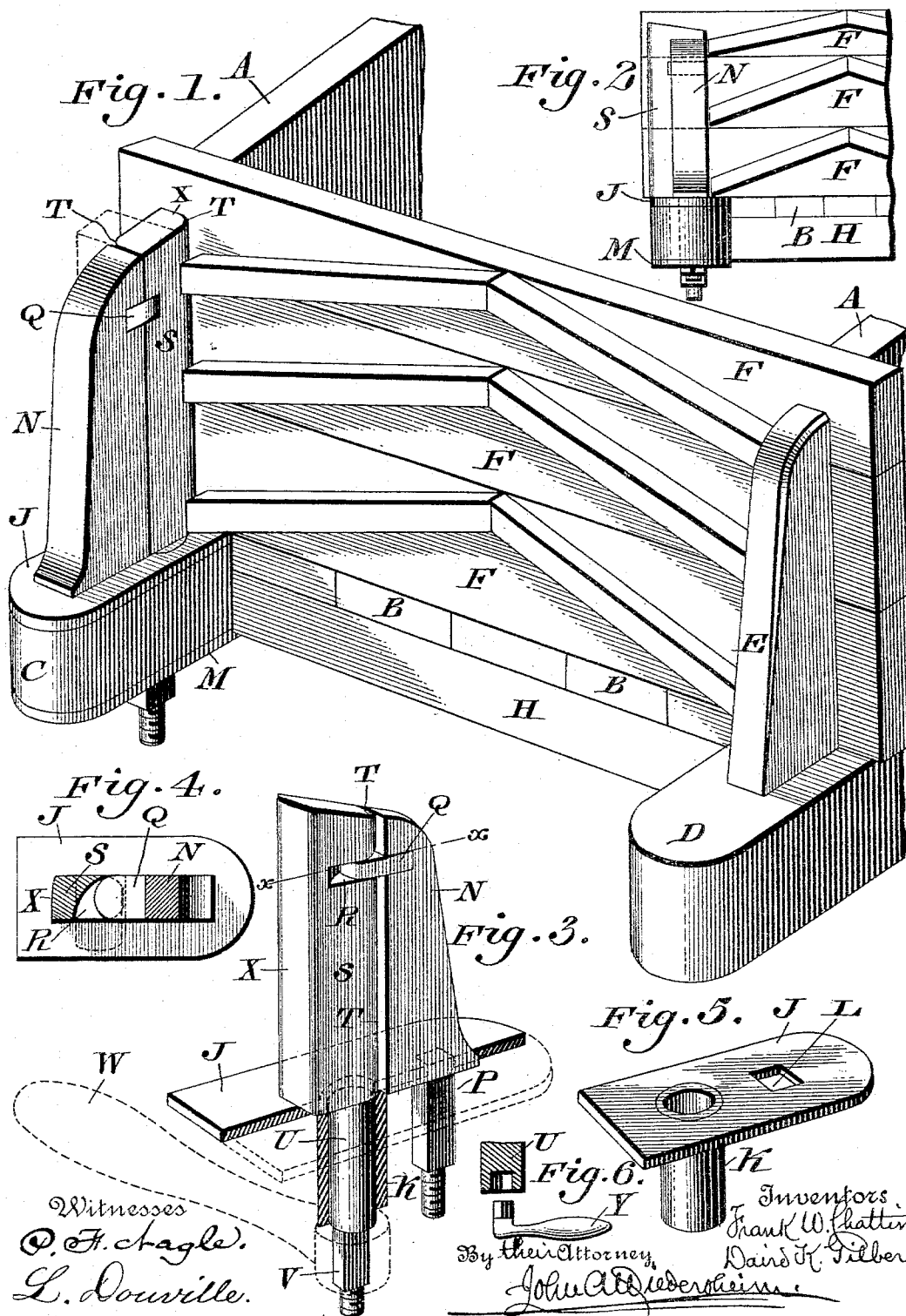


(No Model.)

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WAGON END GATE FASTENER.

No. 531,907.

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WAGON-END-GATE FASTENER.

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To all whom it may concern:

Be it known that we, FRANK W. CHATTIN and DAVID K. GILBERT, citizens of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Tail-Board Fasteners or Locks, which improvement is fully set forth in the following specification and accompanying drawings.

Our invention consists of improvements in tail board fasteners or locks, by means of which the tail board of a wagon may be tightened against the body thereof, and when the load is to be discharged, the tail board may be released of some of the pressure of said load thereon, and consequently easily removed, said board when in position, being tightly held against the body, all as will be hereinafter set forth.

Figure 1 represents a perspective view of a tail board fastener or lock embodying our invention, and a portion of a wagon body to which the same is applicable. Fig. 2 represents on a reduced scale, an end elevation of the same, showing the tail board unlocked. Fig. 3 represents a side elevation, partially in section of the fastener or lock and its adjuncts, the device being turned from the position seen in Fig. 1. Fig. 4 represents a section on line *x, x*, Fig. 3. Fig. 5 represents a perspective view of a detail. Fig. 6 represents a modification to be hereinafter referred to.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates the sides of the body of a wagon, and B the bottom thereof, the latter resting on the cross piece H, which is secured to the sills C and D, which project beyond said body. The sill D has suitably secured thereto the tail-board standard E.

The opposite sill C has a recess in its upper portion in which is placed the plate J, whose thickness is such that its upper face comes flush with the bottom of the wagon when placed in position, as seen in Figs. 1 and 2.

K designates a hollow boss or cylindrical shell which depends from said plate J, and which may be integral therewith, said plate

having also a squared opening L, which is in alignment with a similar opening in the sill C, the latter also having an opening therethrough for the reception of the boss K, so that the parts when assembled, appear as in Figs. 1 and 2, a reinforcing piece M being attached the underside of the sill C if desired.

N designates the opposite tail-board standard which is provided with the squared shank P, which is adapted to enter the opening L of the plate J, and pass through the sill C, and be held in position by a nut or other means.

Q designates a tongue attached to said standard N, which is adapted to enter the groove or recess R in the upright rotatable dog or locking device S, the latter having its corners T rounded or cam-shaped so that it can be readily turned into the position seen in dotted lines in Fig. 1, the face X of said dog S being substantially straight or at right angles to its sides, said dog having the journal U which has a bearing in the hollow boss K, as seen in Fig. 3.

V designates a squared portion or neck of said journal U, to which a handle W may be attached, as seen in dotted lines in Fig. 3.

The operation is as follows: The parts are first assembled as seen in Fig. 3. The plate J is then placed in position as seen in Fig. 1, and held by tightening the nuts on the threaded portion of the shank P. The dog or locking device S is turned into the position seen in Fig. 2, said dog being limited in its movement by its contact with the face of the standard N, against which it abuts, and being capable of making only a quarter turn, as seen in Figs. 1 and 4 in dotted lines.

The tail board F is inserted in place, and the dog S is then rotated into the position seen in Figs. 1 and 4, the face X contacting with said tail board and holding it in position, the cleats on said boards preferably contacting with the standard E and said dog S, when the parts are locked in position. If desired, the dog S can be turned by the socket wrench Y, as shown in Fig. 6, the same having a squared projection to fit a similar recess in the journal U.

It is obvious that the standard N may be held in position in various ways other than

the one shown, and that other changes may be made by those skilled in the art, and we do not desire to be limited to the exact constructions we have herein shown and described.

It is evident that this invention is adapted for carts and other vehicles employing a tail board.

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

1. A tail board fastener consisting of an upright rotatable dog, pivoted to one of the sills of the wagon, and having rounded corners and bearing against the tail board, substantially as described.

2. In a tail board fastener, a plate having a hollow boss depending therefrom, and adapted to enter a projecting sill, a standard passing through said plate and sill, and a locking device journaled in said hollow boss and adapted to engage with said tail board when the latter is in position, substantially as described.

3. In a tail board fastener, a plate having a hollow boss depending therefrom and adapted to rest on a sill of a wagon body, a standard having a shank passing through said sill, a locking device journaled in said boss, and a tongue on said standard adapted to enter a recess in said locking device, whereby the

same is guided in its movement, substantially as described.

4. In a tail board fastener, a locking device comprising an upright rotatable dog, having the recess R therein, a boss in which said dog is mounted, in combination with the standard N provided with the tongue Q adapted to enter said recess in said dog, substantially as described.

5. In a tail board fastener, a standard secured to one of the sills of a wagon body, a standard and a rotatable dog attached to the other sill, said dog being adapted to be moved into and out of contact with the tail board of the wagon and to hold the same tightly against the body of the latter, substantially as described.

6. A tail board fastener consisting of a plate with a depending boss and provided with an opening in rear of said boss, a standard with shank entering said opening, an upright dog with its journal having a bearing in said boss, and a tongue secured to said standard and entering a groove in said dog, said parts being combined substantially as described.

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