(No Model.)

W. M. MOORE.

CARRIAGE SCREEN.

No. 346,857. Patented Aug. 3, 1886.

Fig. 1.

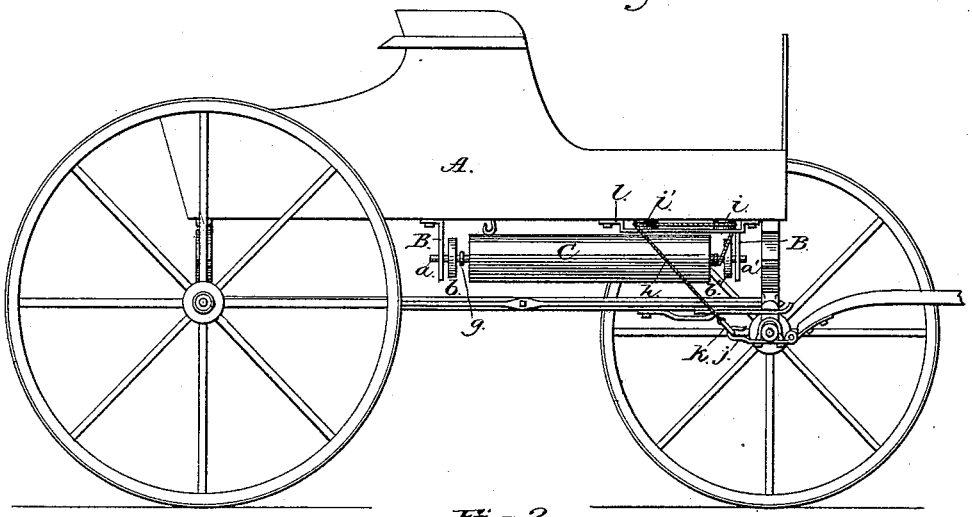


Fig. 2.

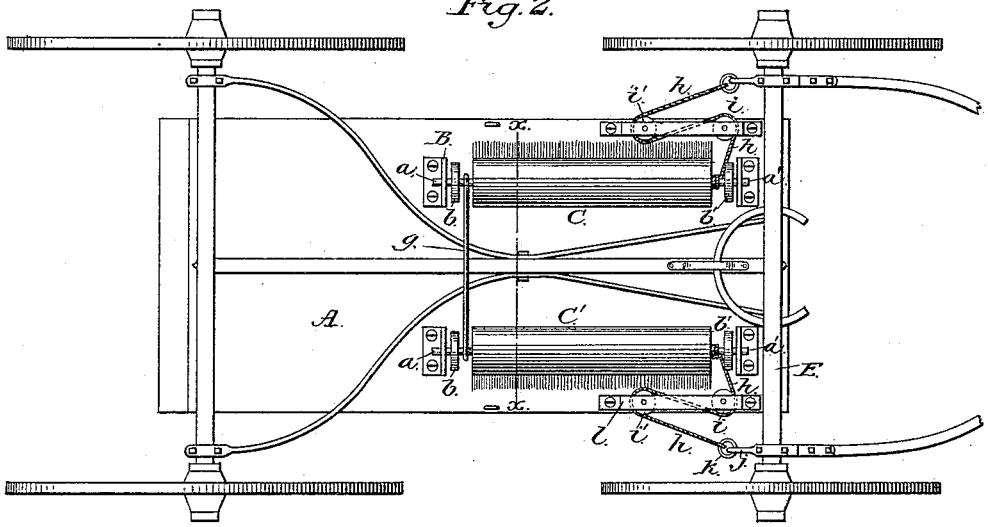


Fig. 3.

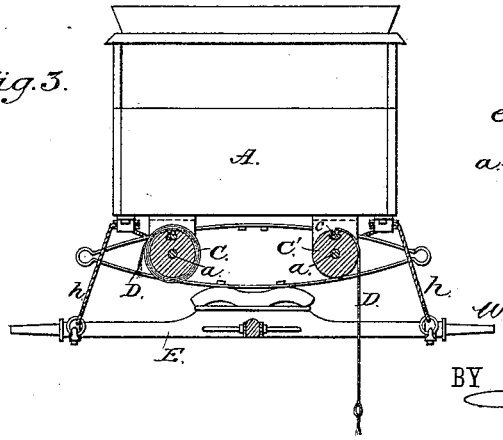
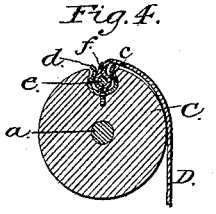


Fig. 4.



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CARRIAGE-SCREEN.

SPECIFICATION forming part of Letters Patent No. 346,857, dated August 3, 1886.

Application filed May 20, 1886. Serial No. 202,825. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MARQUIS MOORE, of Empire City, county of Clear Creek, and State of Colorado, have invented a new and useful Improvement in Carriage-Screens, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation of a wagon to which my improvement has been applied, one of the wheels of the wagon being removed to show the construction and arrangement of the screen. Fig. 2 is an inverted plan view. Fig. 3 is a transverse section taken on line *x x* in Fig. 2. Fig. 4 is a transverse section of one of the screen-rollers.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

The object of my invention is to provide screens to be operated by the forward axle of the carriage when turned or cramped, for screening from the view of the bystanders the limbs of persons entering the carriage or descending therefrom; also to provide a novel means of advertising by placing on such screens words or sentences relating to business, which will be displayed whenever the forward axle of the carriage is turned, thereby causing the screen to be unrolled.

My invention consists in one or more rollers journaled below the carriage-body in supports fixed to some portion of the carriage-body, each roller carrying a screen of sufficient length to reach nearly to the ground when unrolled, and in the combination, with the roller or rollers, of a system of cords and sheaves for moving the rollers when the forward axle of the carriage is turned.

My invention also consists in a screen-holder connected with the rollers, which will permit of the ready exchange of one curtain for another.

To some portion of the carriage, preferably to the under surface of the floor of the body A, are secured hangers B B, in which are journaled the spindles *a a'* of the rollers C C'. Between the ends of the rollers and the hangers B B disks *b b'* are secured to the spindles, leaving spaces between the ends of the rollers and the disks for receiving the cords which operate the rollers, as will presently be described.

The rollers C C' are each provided with a spring-clip, *c*, secured in a groove, *d*, formed in one side of the roller. The spring-clip consists of a plate of metal approximately U-shaped in cross-section, with the edges of the metal bent outward, and the convex inwardly-projecting surfaces thus formed bent inwardly toward each other to permit them to embrace the screen-rod *e*, which is received in the hem *f*, formed on the upper end of each screen D. By means of this arrangement the different screens may be readily exchanged. The lower and free edges of the screens are hemmed, and provided with a bar of wood or metal of sufficient weight to hold the screen in a vertical position when unrolled, and prevent it from being blown aside by the wind. A rubber cord or spring, *g*, is secured to the spindles *a* of the rollers, and opposes the movement required to unroll the screens, so that as the screens are unrolled the cord *g* is wound upon the spindle or the roller of that screen, and is thereby placed under sufficient tension to rewind the screen when released. The rollers C C' are oppositely arranged with respect to each other, so that the screens unwind from the outer sides of the rollers.

Around each spindle *a* is wound a cord, *h*, in the same direction as that of the screen wound upon the roller secured to the spindle, so that by drawing either of the cords the screen connected therewith will be unwound from its roller, at the same time winding the rubber spring *g* on the spindle *a*. The cord *h* of each roller passes partly around the outer surface of a sheave, *i*, thence partly around the sheave *i'*, thence to the hook *j*, secured to the forward axle, E, of the vehicle, the end of the cord *h* being provided with a ring, *k*, which is received in the hook *j*. The sheaves *i i'* in the present case are pivoted to the under surface of the wagon-body A, and their pivots are supported by the strap *l*, secured to the under surface of the body.

The cords *h* and sheaves *i* on opposite sides of the wagon-body are oppositely arranged with respect to each other, so that when the

forward axle of the wagon is turned the cord *h* of the advancing end of the axle will be pulled and unwound from the spindle *a'*, thus causing the roller with which it is connected to turn in the direction required to unroll the screen and display it, while the cord connected with the opposite end of the axle will be rendered slack, thus allowing the spring *g* on the roller connected with that end of the axle to wind the screen upon the roller. In this manner, whenever the wagon is cramped to permit the passenger to enter or alight therefrom, the screen is automatically unrolled. When the cord is rendered slack in the manner described, it is prevented from getting out of place by the strap *l* on the sheaves *i i'* and the disks *b b'* upon the spindles *a'*.

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

1. The combination, with a carriage or other vehicle, of one or more rollers, a cord wound upon the spindle of each roller and connected with the movable axle of the vehicle, and a spring arranged to oppose the pull of the cord, substantially as herein shown and described.

2. The combination, with a carriage or other vehicle, of screen-rollers carried thereby, screens D, wound upon the rollers, the spring *g*, attached to the spindles *a* of the rollers, and adapted to rewind the screens when unwound, and the cords *h*, connected with the spindles *a'* and with the ends of the movable axle E of the vehicle, substantially as herein shown and described.

3. The combination, with a carriage or other vehicle, of the screen-rollers C C', carrying screens D, the spring *g*, connecting the spindles *a* of the rollers, the cords *h*, sheaves *i i'*, and hooks *j*, carried by the axle and connected with the cords *h*, substantially as herein shown and described.

4. The combination, with the roller C, provided with the longitudinal U-shaped groove *d*, of the spring-clip *c*, approximately U-shaped in cross-section, as shown, and the screen D, provided with the rod *e*, adapted to be received in the clip *c*, substantially as herein shown and described.

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