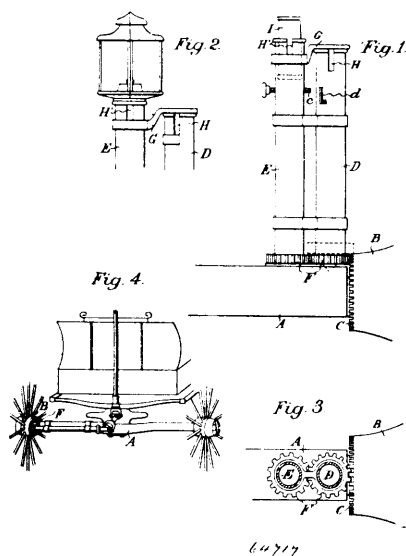


the lever to bring its marking device in contact with the cylinder, and an air pipe leading from said air chamber at the rear of its diaphragm to the collapsible bulb. 4th. The combination, with a depressible yielding supported seat, a collapsible air bulb located thereunder and adapted to be collapsed at each depression of the seat, of a recording cylinder, means for rotating and supporting the same, an air chamber located adjacent to the cylinder, a diaphragm of flexible material contained therein and adapted to operate a marking device, and an air pipe leading from the air chamber to the air bulb. 5th. The combination, with the seat frame and the seat located therein, of the stationary base arranged thereunder and provided with cavities, the springs interposed between the seat and the base, the collapsible air bulbs located in the cavities and projecting above the base, a pneumatically operated recording device, and an air pipe leading from each bulb to said recording device. 6th. The combination, with the case, the clock mechanism having the projecting shaft and the threaded shaft aligning therewith, of the cylinder adapted to travel longitudinally on the shaft and to carry a record sheet, stationary bars arranged at opposite sides of and below the cylinder, opposite levers fulcrumed on the bars and provided at their inner free ends with marking devices, and depressible seats, and means operated thereby for throwing any or all of said levers into operative position with relation to the cylinder. 7th. The combination with a casing, a clock mechanism having a square shaft, a recording cylinder supported by the shaft, means for advancing the cylinder longitudinally upon said shaft at each revolution of the same, recording devices located adjacent to the cylinder, of depressible seats, and means for actuating the recording devices at each depression of said seats.

No. 64,717. Vehicle Attachment and Holding Device.

(Attache et appareil de retenue pour véhicules.)



Samuel Wyatt, San Francisco, California, U.S.A., 3rd November 1899; 6 years. (Filed 23rd May, 1899.)

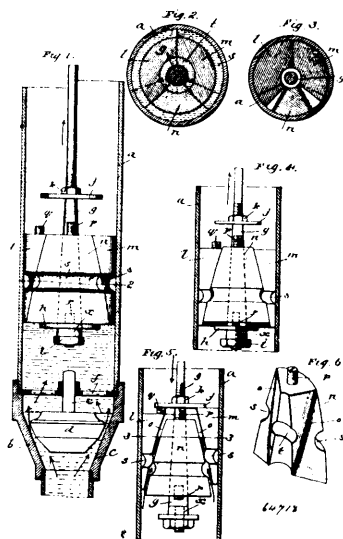
Claim.—1st. A vehicle attachment consisting of vertical standards having slots in the upper end for the attachment of reins, and means comprising intermeshing gears upon the standards and the wheel hub whereby the shafts may be rotated by the movement of the vehicle. 2nd. A vehicle attachment consisting of standards, gears upon said standards intermeshing with a corresponding gear upon the vehicle hub, a means for disengaging the gears, consisting of a right angled slot made in one of the standards, a pin projecting from the other into said slot whereby the standard may be raised to disengage its gear from the wheel hub and turned so that the pin will retain it in its raised position. 3rd. A vehicle attachment consisting of standards having engaging gear, one of which is adapted to be rotated by contact with the wheel hub, said standards having sockets in their upper ends adapted to receive a lantern or other appurtenance of the vehicle.

No. 64,718. Pump Piston. (Piston de pompe.)

George W. Youmans, Rochester, Minnesota, U.S.A., 3rd November, 1899; 6 years. (Filed 14th June, 1899.)

Claim.—1st. In a piston for pumps, the combination of a piston rod carrying separated stop plates or flanges, a piston confined on the piston rod between the said stop plates or flanges, said piston being comprised of a plurality of separable sections adapted to fit together upon one stroke of the piston, and to separate upon the other stroke, and means for arresting said sections at different points

on this latter stroke, substantially as set forth. 2nd. In a pump piston, the combination of a piston rod, a piston adapted to have a



limited sliding movement thereon, said piston consisting of a plurality of sections divided substantially radially, one of said sections being tapered toward one end, said sections being adapted to fit together upon the up stroke and form a solid piston and separate endwise upon the down stroke and form water passages between the faces which come in contact upon the up stroke. 3rd. The combination of a piston rod and piston adapted to slide endwise thereon, means for limiting the movement of the piston, said piston being comprised of separate sections adapted to fit together and form a solid piston on the up stroke, and to separate endwise on the down stroke, and means for arresting the sections at different points on this latter stroke to form water passages between the adjacent faces of said sections. 4th. The combination of a piston rod tapered upward, a piston having an endwise movement on said tapered portion stops limiting the movement of the piston, said piston being comprised of a plurality of sections having their adjacent faces fit closely together to form a solid piston on the up stroke, means for separating the sections endwise on the down stroke, one of said piston sections being tapered toward one end and the central opening in the piston being tapered upward, as and for the purposes set forth. 5th. The combination of a piston rod and a piston thereon, said piston being comprised of a plurality of sections adapted to fit together and form a solid piston on one stroke, means for endwise separating the sections upon the other stroke, thereby forming water passages between the adjacent faces, said means consisting of a stop on the piston rod and a stop on one of the sections, said stop being adjustable to regulate the size of the water passage. 6th. The combination of a piston rod and a piston rotatively supported thereon said piston being comprised of sections adapted to fit together and form a solid piston on one stroke and to separate endwise on the other stroke to form water passages between the adjacent faces of the sections, one of said adjacent faces being spirally formed, whereby the piston will be rotated at each stroke. 7th. The combination of a piston rod and a piston endwise movable thereon, said piston being comprised of a plurality of sections having their adjacent faces formed to fit closely together to form a solid, closed piston upon the up stroke, one of said sections being tapered upward, one of the faces of this tapered section and the adjacent face of the adjacent section being spirally formed, and means for separating the sections endwise and forming water passages there between upon the down stroke. 8th. The combination with a piston rod and piston thereon, said piston being provided with an annular external groove and being comprised of a plurality of sections adapted to close and form a solid piston on one stroke and open endwise upon the other stroke, the portions of the groove on the sections coming into alignment when the sections come together and out of alignment when the sections separate, whereby the groove fills with water at each stroke, substantially as set forth. 9th. The combination of a piston rod and piston thereon, said piston being provided with an internal open groove and an external open groove, both grooves being annular, said piston being comprised of a plurality of sections adapted to close together to form a solid piston on one stroke and to separate endwise upon the other stroke, the portions of the groove on the sections coming into alignment when the sections come together and out of alignment when the sections separate, whereby the groove fills with water at each stroke, as and for the purposes set forth. 10th. The combination of a piston rod and piston thereon, said piston consisting of a plur-