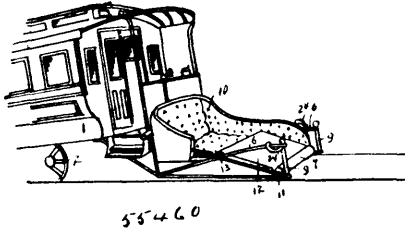


of the combination with said cover of a shaft hanger, a rock shaft, circular plates connected eccentrically with said shaft and having the eccentric portions extending in opposite directions, oppositely movable bolt rods in suitable guides on said cover having loops adapted to yield upon their inner ends extending over said eccentric plates, a spring on said hanger supported at each end and an operating lever having a forked portion connected with said rock shaft and an extension of said forked portion having a cam bearing upon the said spring whereby the upward movement of the free end of the lever is retarded, substantially as and for the purpose described.

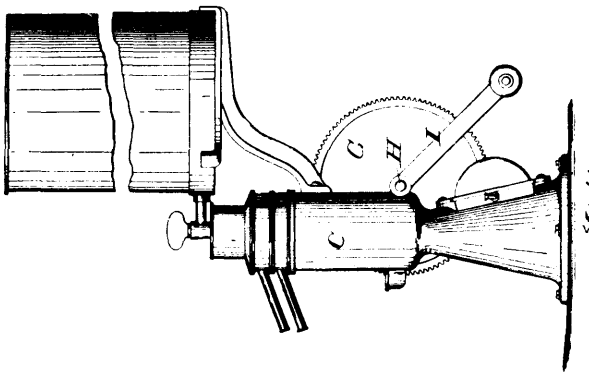
**No. 55,460. Car Fender. (*Défense de chars.*)**



John James Holloway and James William Starkweather, both of Los Alamos, California, U.S.A., 29th March, 1897; 6 years. (Filed 15th March, 1897.)

*Claim.*—1st. The combination with a car mounted upon suitable wheels, of a fender therefor secured to the underside of the car by suitable brace rods constituting a fender supporting frame, a cylinder located in the forward end of said frame, a pair of drums or rollers located in the rear of said cylinder, an apron or carrier belt surrounding said drums and means, actuated by the forward movement of the car, for rotating said cylinder and drums in a reverse direction to that of the car wheels, substantially as and for the purpose described. 2nd. The combination with a car mounted upon suitable wheels, of a fender therefor secured to the underside of the car by suitable brace rods constituting a fender supporting frame, a cylinder located in the forward end of said frame having a sprocket wheel upon its outer end, a pair of drums or rollers located just in the rear of said cylinder, one of said drums having a sprocket wheel upon its outer end, an apron or carrier belt surrounding said drums, a counter shaft mounted in said frame having a sprocket wheel upon its outer end, a chain surrounding the sprocket wheels on said counter shaft, on said drum and on said cylinder, a pinion on said counter shaft, a gear wheel meshing with said pinion and secured to a second counter shaft, a sprocket wheel thereon, and a sprocket chain connecting said sprocket wheel and a similar sprocket wheel on the shaft upon which said wheel is mounted, substantially as and for the purpose described.

**No. 55,461. Centrifugal Creamer. (*Crèmeuse centrifuge.*)**

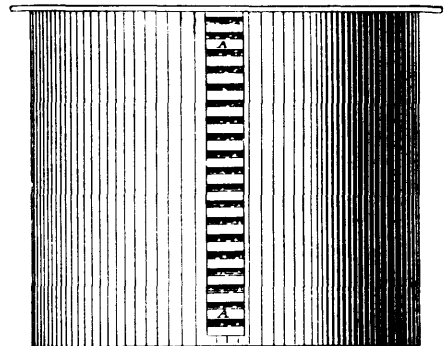


Olof Ohlson, Newark, New Jersey, U.S.A., 29th March, 1897; 6 years. (Filed 30th March, 1895.)

*Claim.*—1st. The combination of a shaft mounted in bearings and provided with an eccentric, a wheel provided on one side with an extended hub loosely mounted on the shaft, a friction clutch plate or member mounted loosely upon the shaft on the side of the wheel opposite to the hub and so as to be capable of circumferential movement back and forth on said shaft, a fixed stop limiting this movement in one direction, the clutch plate or member being arranged to be actuated by the eccentric so as to engage the wheel, and means for driving the shaft, substantially as set forth. 2nd. The combination of a shaft mounted in bearings and provided with an eccentric, a wheel provided on one side with an extended hub loosely mounted on the shaft by a pin and slot connection, a friction clutch plate or member mounted loosely upon the shaft on the side of the wheel opposite to the hub and so as to be capable of circumferential movement back and forth on said shaft, the clutch plate or

member being arranged to be actuated by the eccentric so as to engage the wheel, and means for driving the shaft, substantially as set forth. 3rd. In a centrifugal machine, comprising a device to be rotated upon a shaft provided with a worm, an intermediate shaft mounted in suitable bearings and provided with an eccentric, a worm wheel provided on one side with an extended hub loosely mounted on the intermediate shaft and engaging the worm shaft, a friction clutch plate or member loosely mounted on the intermediate shaft on the side of the worm wheel opposite to the hub and so as to be capable of circumferential movement back and forth on said shaft, a fixed stop limiting this movement in one direction, the clutch plate or member being arranged to be actuated by the eccentric so as to engage the wheel, and means for driving the shaft on which the worm wheel is mounted, substantially as set forth. 4th. A journal bearing comprising a collar adapted to receive a rotatable shaft or journal, a ring encircling the collar, and a cushion interposed between the ring and collar in combination with a support for the bearing encircling the ring, said support bearing horizontally against the ring, in which the ring may rotate, whereby in case the shaft or journal should adhere to the collar the bearing may rotate in the support, substantially as set forth. 5th. In a centrifugal machine, comprising a device to be rotated, a vertical driving shaft rigidly connected therewith and provided with a worm, a lower bearing comprising three or more balls between which the end of the shaft rests, an upper bearing provided with a cushion and arranged to maintain the shaft upright, and a worm wheel meshing with the shaft for rotating the shaft, whereby the axis of rotation may be maintained in a straight line through the centre of the device to be rotated, and whereby the shaft will be held down in its bearings during rotation, substantially as set forth. 6th. In a centrifugal creaming machine, the combination with a bowl and means for rotating the same, of a single frame or series of guide plates arranged in the outer part (radially) of the liquid space of the bowl and encircling the bowl centre and cutting obliquely the lines of the centrifugal force and arranged to act as couples, and each couple having common openings at the points nearest to the centre and supplementary outer guide plates cutting obliquely the lines of centrifugal force and arranged as described whereby the liquid space of the bowl is divided into an inner compartment and outer compartments, blue milk outlet conduits for the outer compartments, separate blue milk outlet conduits for the inner compartment and suitable inlet conduits, whereby currents of partly separated cream particles are formed and guided into successive collisions and progressive coalescence of the cream particles is attained, substantially as shown and described. 7th. In a centrifugal machine, the combination with a bowl and means for rotating the same and suitable inlet and outlet conduits, of a single frame or series of guide plates arranged in the outer part (radially) of the liquid space of the bowl and encircling the bowl centre and cutting obliquely the lines of centrifugal force and arranged in couples, each couple having common openings at the points nearest to the centre end openings at the points furthest from the centre, supplementary outer guide plates cutting obliquely the lines of centrifugal force and arranged as described, and a milk distributing base plate having openings for full milk arranged on both sides of each guide plate and of each supplementary guide plate, substantially as shown and described. 8th. In a centrifugal creamer, the combination with the rotary bowl, of a connecting frame comprising the perforated horizontal plate *p*, the vertical guide plates, arranged in couples and the couples arranged in chords of the rotary bowl, and the plates *m*<sup>1</sup>, *m*<sup>2</sup> etc., disposed at angles to said vertical guide plates, the said guide plates and plates *p* and *m*<sup>1</sup>, *m*<sup>2</sup> etc., being rigidly secured together from said bowl, and a feeding tube adapted to load the milk below said perforated horizontal plate, substantially as set forth.

**No. 55,462. Partition and Ceiling Extension Thimble. (*Dé à extension pour cloisons et plafonds*)**



Joseph Taylor Henderson, Niagara Falls, Ontario, Canada, 27th March, 1897; 6 years. (Filed 26th March, 1896.)

*Claim.*—1st. The fastening consisting of corrugations or indentations as shown on the accompanying drawings. 2nd. The use of corrugations or indentations as a fastening upon extension thimbles.