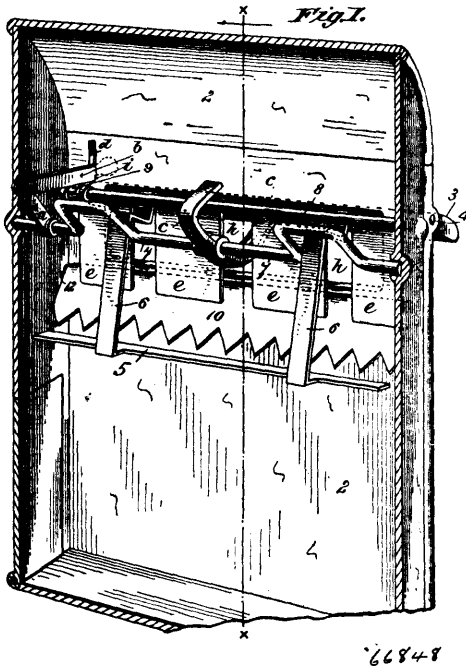


connected to the links and having a sliding connection with the head, a swivel eye connected with the stem, lugs upon the swivel eye and upon the head and a catch for holding the lugs of the swivel eye and of the head in engagement, substantially as specified. 29th. The combination of a drawing block carrying a reel which is rotated therewith, an elevator carrying a turn table, arms extending from said turn table, one of said arms adapted to be connected with the reel rotated by the block, while the other of said arms is adapted to be connected with the second reel, substantially as described. 30th. In a wire drawing machine, the combination of an elevator, a support for the two reels pivotally connected with a part of the elevator and reels supported so as to be able to rotate relatively to said support, substantially as specified. 31st. In a wire drawing machine, the combination of an elevator, a support for two reels pivotally connected with a part of the elevator, and reels supported so as to be able to swing relatively to said support, substantially as specified. 32nd. In a wire drawing machine, the combination of an elevator, a support for two reels pivotally connected with a part of the elevator, and reels supported so as to be able to travel along said support toward and from its pivotal connection. 33rd. In a wire drawing machine, the combination of a die, a drawing block, a driving shaft, means for rotating said shaft at high speed, a device for starting the block with a gradual movement to obtain the full speed of the driving shaft and means including a handle independent of the driving shaft, for throwing said device into and out of action without stopping the driving shaft, substantially as described.

No. 66,848. Street Letter Box. (*Boîte à lettre pour rues.*)

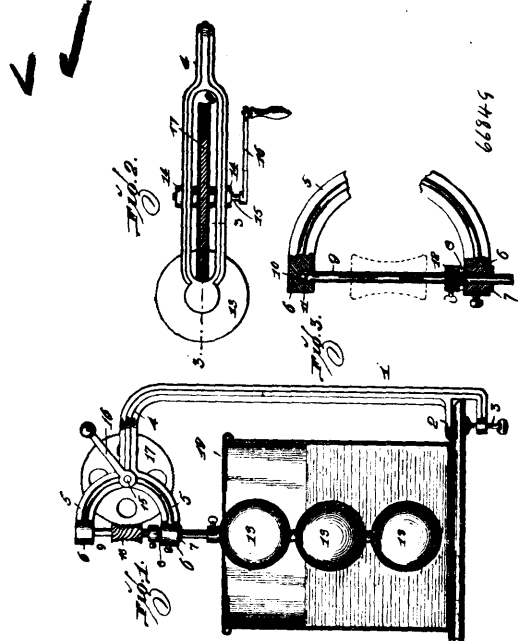


Alvin Matthews Cushing and Lillie Elizabeth Brown, both of Springfield, Massachusetts, U.S.A., 31st March, 1900; 6 years. (Filed 29th January, 1900.)

Claim.—1st. In a letter box, a lid swinging on the outer side thereof to open and close the aperture through which mail matter is introduced into the box, a metallic letter guard having a serrated down-hanging border fixed on the inner wall of said box below said aperture, a metallic guard plate supported on said lid and having a position under said serrated border when said lid is open and swinging away therefrom when said lid is closed, thus permitting mail matter to drop into the bottom of the box below said guard and plate, substantially as described. 2nd. In a letter box, a lid swinging on the outer side thereof to open and close the aperture through which mail matter is introduced, mechanism for opening said lid and for temporarily engaging and holding the same in that position for putting matter into the box, and means actuated by the impact of matter passed through said aperture for disengaging said lid retaining mechanism and permitting the lid to close, substantially as described. 3rd. In a letter box, a lid swinging on the outer side thereof to open and close the aperture through which mail matter is introduced into the box, a metallic plate having a serrated lower border fixed in an inclined position on the inner wall of said box below said aperture, a metallic guard plate connected by suitable arms with said lid and having vibratory motions under said serrated lower border concurrent with the opening and closing movements of said lid, substantially as described. 4th. In a letter box, a lid swinging on the outer side thereof to open and close the

aperture through which mail matter is introduced, mechanism for opening said lid and for temporarily holding the same in that position, comprising a shaft extending within the box opposite said lid having a lever fixed thereon for engaging the same and a finger lever projecting through the wall of the box and temporarily engaging the same, pivotally connected to an arm on said shaft whereby by the endwise movement of said finger lever said shaft is rocked and the lid is opened or allowed to close, substantially as described.

No. 66,849. Churn. (*Barattc.*)



Frean A. Mabey and Griff Grover, Bloomfield, Missouri, U.S.A. 31st March, 1900; 6 years. (Filed 16th March, 1900.)

Claim.—1st. In a churn, a standard 1, the upper end of which is provided with a lateral extension, a pair of vertically aligned bearings 6 formed in said extension, the sleeve 7 removably located in the lower one of said bearings, in the top of which sleeve is formed a continuous groove, a shaft rotatably arranged in the vertical bearings, a collar removably located upon said shaft immediately above the sleeve, ball bearings interposed between said collar and sleeve, a worm removably located upon the shaft, a worm wheel rotatably arranged in the lateral extension of the frame and in mesh with the worm, and a plurality of spherical bodies arranged one above the other upon the shaft, substantially as specified. 2nd. In a churn, a vertically arranged shaft 9, means for rotating said shaft, and a plurality of spherical bodies 13 arranged one above the other and being removably carried by the lower end of said shaft, substantially as specified.

No. 66,850. Reversing Valve for Steam Engines.

(*Soupage de renversement pour machines à vapeur.*)

George Gilmore and John Hawthorne, both of Simcoe, Ontario Canada, 31st March, 1900; 6 years. (Filed 16th March, 1900.)

Claim.—1st. In a steam engine, the combination with the cylinder inlet ports and steam chest, of a valve having the closing ends thereof longitudinally adjustable to and from each other and means for accomplishing this end as and for the purpose specified. 2nd. In a steam chest, the combination with the cylinder inlet ports and steam chest of a valve having the closing ends thereof longitudinally adjustable to and from each other, the valve rod and means for connecting the valve rod to the adjustable end of the valves and means for turning the valve rod, as and for the purpose specified. 3rd. In a steam engine, the combination with the cylinder inlet ports and steam chest, of a valve having the closing ends thereof longitudinally adjustable to and from each other, the valve rod, the block on the valve rod holding the valves in position, the cylindrical sleeves secured to the valve rod and provided with serpentine grooves, and tongues extending from the adjustable portion of the valves into the grooves for turning the rod, as and for the purpose specified. 4th. In a steam engine, the combination with the cylinder inlet ports and steam chest, of a valve having the closing ends thereof longitudinally adjustable to and from each other, the valve rod, the block on the valve rod holding the valves in position, the cylindrical sleeves secured to the valve rod and provided with serpentine grooves and tongues extending from the adjustable portion of the valves into the grooves, the operating lever, the lateral projection thereof, the lever pivoted on the frame at one end, the rod connecting the lever