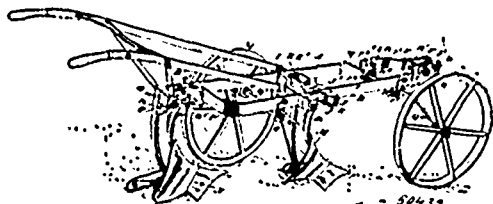


secured, one of said heads having a feed tube and distributor extending through it axially into the interior of the cylinder, the opposite head formed with transverse diaphragms with an intermediate trap and central discharge openings through which the pulp flows and final discharge openings formed around the outer chamber. 6th. An amalgamator consisting of a cylinder formed of separable segments with an interior lining of silvered segmental plates rolled to form inwardly projecting jointless ribs, said plates and ribs terminating a short distance from the discharge end to leave a space for the collection of free mercury and heavy particles unacted upon by the ribs.

No. 50,439. Gang Plough. (Charrue-bulleur.)



The Cockshutt Plough Company, assignee of George Wedlake, both of Brantford, Ontario, Canada, 2nd November, 1895; 6 years.

Claim.—1st. In a gang plough, the combination with the side bars, of widening blocks secured on the connecting bolts of the side bars and designed to be inserted in the frame between the side bars, so as to increase the operative width of the shares, as and for the purpose specified. 2nd. In a gang plough, the combination with the side bars and shares provided with vertical standards, bolts to secure the standards of the plough in position relative to the side bars and widening blocks provided with open ended slots designed to straddle the bolts and be placed between the standards of such plough and the opposite side bar to that to which the standards are adjacent, as and for the purpose specified. 3rd. The combination with the side bars having the bent front ends formed as specified, of the clevis jaws secured to the front ends of the side bars, the bolt C, sleeve E, and widening blocks F, the clevis jaw H, the bolt G, and widening blocks I, and securing nuts for both blocks, all designed and arranged as and for the purpose specified. 4th. The combination with the widening blocks designed to be held on the connecting bolts and be adjusted in the frame as specified to widen such frame, of the riding wheels having the square crank axes provided with cylindrical journal blocks and supports for the journal blocks attached to the side bars, as and for the purpose specified. 5th. In a machine in which widening means are provided for the side bars and plough, riding wheels having square crank axes provided with cylindrical journal blocks fitting in corresponding holes in supporting brackets, lugs at the end of the cylindrical journal blocks and notches in the holes in which the blocks are journaled, as and for the purpose specified. 6th. The combination with the side bars and widening blocks, of the riding wheels and axes and supporting bracket for such axes, and the lug R held laterally rigid on the brackets R, holes in the axes and bolts extending through the holes and lugs to secure the axle from lateral movement, as and for the purpose specified.

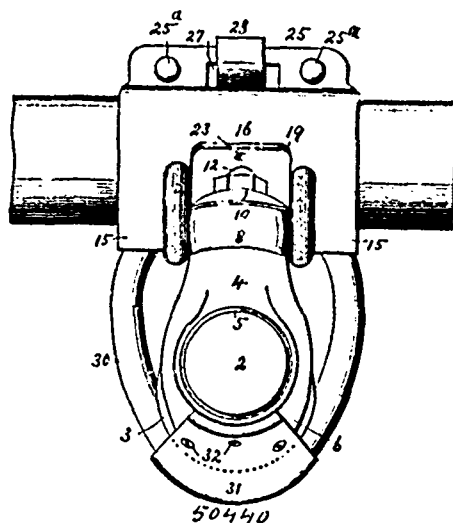
No. 50,440. Neck-Yoke Centre.

(Centre de volée de bout de timon.)

Anna Pearson, assignee of Swain Pearson, both of Oklahoma, Territory of Oklahoma, U.S.A., 2nd November, 1895; 6 years.

Claim.—1st. A neck yoke centre, comprising a tongue, a collar mounted upon the tongue, a neck-yoke bar, a sleeve mounted thereon, a swivel member connecting said sleeve and said collar so as to permit of motion both up-and-down and to each side. 2nd. A neck yoke centre, comprising a tongue, a collar mounted thereon, a neck-yoke bar, a sleeve mounted thereon, a swivel member comprising trunnions pivotally connected to operate in a vertical plane to said sleeve, and a sleeve which is pivotally connected to operate laterally or in an approximately horizontal plane to said collar, substantially as set forth. 3rd. A neck-yoke centre, comprising a collar to embrace the tongue of a vehicle, a sleeve to embrace the neck-yoke bar, a swivel member comprising trunnions pivotally connected to operate in a vertical plane to said sleeve, and a sleeve which is pivotally connected to operate laterally or in an approximately horizontal plane to said collar, a key carried by said sleeve which locks the trunnions of the swivel-member from any but pivotal motion, a bolt carried by said collar, and a nut engaging said bolt to secure the connection between the sleeve of the said swivel-section and the said collar, substantially as set forth. 4th. In combination, a flanged tongue, and a neck-yoke centre, and a collar mounted on the said tongue and bearing against the flange of the same, a sleeve mounted on the neck-yoke bar, a swivel member connecting said sleeve and said collar so as to permit of movement both up-and-down and to each side, an annulus carried by said collar surrounding the tongue and pivotally connected to the sleeve of the yoke-bar, substantially as set forth. 5th. In combination, a flanged tongue, a neck-yoke

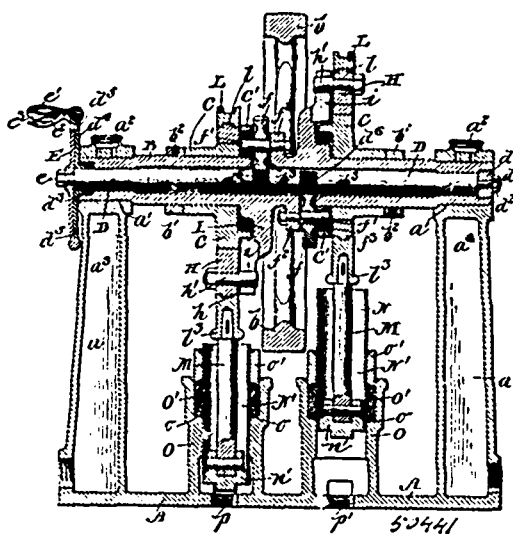
bar, and a neck-yoke centre comprising a collar mounted upon said tongue and bearing against the flange of the same, a sleeve mounted



upon the neck yoke bar, a swivel-member connecting said sleeve and said collar so as to permit of movement both up-and-down and to each side, an annulus surrounding the tongue and looped at its upper end by a strap to the neck-yoke sleeve, and provided at its lower end with an arm which is secured to the said collar and curves up in rear of the said tongue-sleeve, substantially as and for the purpose set forth.

No. 50,441. Mechanism for Operating Pumps.

(Mécanisme de pompe.)



W. M. Leathley & Company, assignee of Meredith Leitch, both of Richmond, Virginia, U.S.A., 4th November, 1895; 6 years.

Claim.—1st. The combination of an operating shaft, one or more eccentrics mounted thereon, devices for increasing or decreasing the eccentricity of said eccentrics on said shaft, and means for operating said devices and locking them in their adjusted positions, substantially as described. 2nd. The combination of an operating shaft, an adjusting eccentric loosely mounted thereon, an operating eccentric mounted on said adjusting eccentric and adapted to have its eccentricity increased or decreased by said adjusting eccentric, means for operating said adjusting eccentric, and positively locking it in the desired position, and means connecting the operating eccentric with the shaft so that it revolves therewith, but can move laterally independent of the same, substantially as described. 3rd. In a feed water mechanism, the combination of an operating shaft, one or more adjustable eccentrics loosely mounted thereon, operating eccentrics mounted on said adjusting eccentrics and adapted to have their eccentricity increased or decreased by