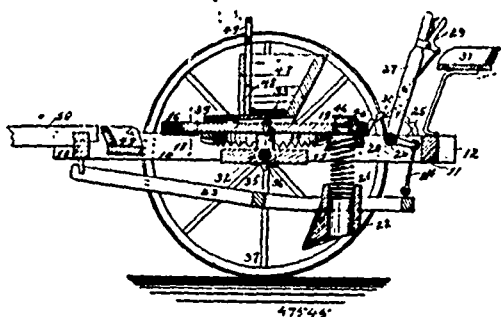


substantially as and for the purposes herein described. 4th. In coin-freed gas meters, the fitting of a rotative sleeve F^1 , formed with a differential coiled slot or cam groove F^2 , in combination with a pin g and sleeve G capable of combined rotative and longitudinal movement, and having connecting gearing and fittings G^2 (G^3), H to H^4 to set on and stop the movements of meter, substantially as herein described.

No. 47,545. Potato Planter. (*Semoir à patates.*)

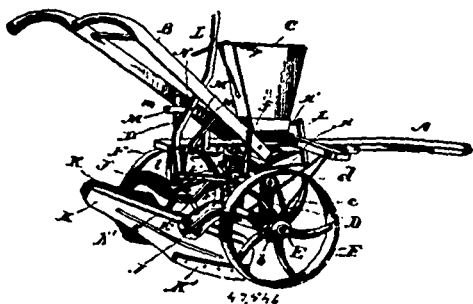


Millard F. Myers, Greenville, Ohio, U.S.A., 26th November, 1894; 6 years.

Claim.—1st. The seed dropping disc having a series of seed apertures, and a vertically divided sleeve 40 in each opening and provided with slotted flanges 41, and screws passed through the flange slots into the upper side of the disc, the said sleeves being separate and independent of one another, substantially as described. 2nd. In a potato planter, the combination, with a frame, the axle and ground wheels, a circular guide carried by the frame, having an exit opening, and a planting disc held to horizontally rotate upon said guide and provided with a series of adjustable pockets, of a driving connection between the axle and the planting disc, a spring throat located beneath the exit opening in the guide, a frame pivoted to the main frame of the machine, a shoe carried by the said frame and connected with the said spring throat, a rock shaft provided with locking devices, connected with the supporting frame of the shoe, an exposed spring controlled expelling-head located over the exit opening in the guide and adapted to travel upon the upper face of the planting disc and enter the pockets as they register with the throat, and a hopper adapted to contain the seed and located over the planting disc, having a closed bottom provided with a forward extension to deliver on the upper exposed side of the disc, and having a discharge opening in its front wall and a gate controlling the same, whereby the seed may be delivered upon the disc or removed from the hopper and placed in the pockets of the disc, substantially as shown and described.

No. 47,546. Horse Hoe and Fertilizer Distributor.

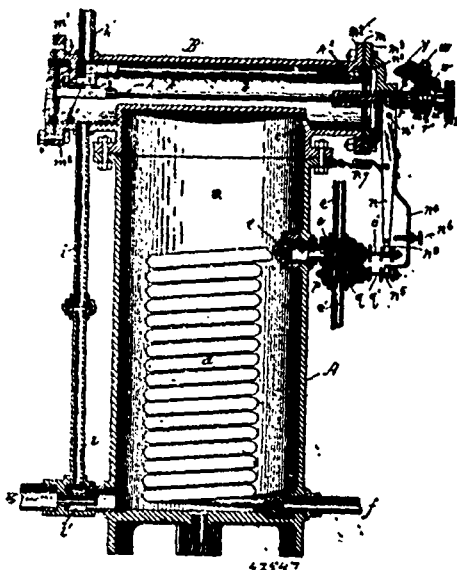
(*Houe à cheval et distributeur d'engrais.*)



Fred M. Haines, Fort Fairfield, Maine, U.S.A., 26th November, 1894; 6 years.

Claim.—1st. The combination with the dropper slide, of the end-wise-movable shaft, pivotal connections between said shaft and the said slide, and a sprocket-wheel with which said shaft is adapted to detachably engage, and the adjustable arms on the crank axle as set forth. 2nd. The combination with the crank axle and the arms adjustable thereon, of the wings mounted on the said arms, and detachable acting portions on said wings, as set forth. 3rd. The combination with the crank axle and the arms adjustable thereon, of the wings mounted on said arms, and the lever pivoted as described and connected with the said axle, substantially as and for the purpose specified. 4th. The combination with the frame, the pole, the hopper, the hopper slide and the wheels, of the end-wise-movable shaft, the two sprocket-wheels, the sprocket-chain, the crank axle, the arms on the axle and the wings thereon and the means for adjusting the arm, substantially as specified.

No. 47,547. Water-heater. (*Réchauffeur d'eau.*)



Henry Archibald Tobey, Toledo, Ohio, U.S.A., 26th November, 1894; 6 years.

Claim.—1st. In a water-heater, the shell thereof in combination with a return-pipe leading from the upper to the lower part of the interior of said shell, and the water supply-pipe of said heater, said two pipes discharging into the lower part of said shell through a chamber common to both said pipes, whereby the advancing current in the supply-pipe may accelerate the current in the return-pipe, and whereby the streams from both pipes may mingle at or near their point of discharge into the lower part of said shell, substantially as shown and described, for the purpose specified. 2nd. In a water-heater, a source of heat connected therewith, a valve or valves, controlling said source of heat, two expansible rods or pipes within said heater progressively connected together by suitable intermediate mechanism, one end of the first rod or pipe in said series being fixed, and one end of the last rod or pipe in said series extending outside of said heater, and being operatively connected with said valve or valves, substantially as shown and described, for the purpose specified. 3rd. In a water-heater, the expansion-rod-chamber thereof, having its opposite ends closed by diaphragms rigidly connected by an intermediate rod or pipe attached at both ends to said diaphragms, substantially as shown and described, for the purpose specified. 4th. In a water-heater, a valve controlling the supply of exhaust-steam to said heater, a valve controlling the supply of live-steam to said heater, and an expansion-rod within said heater common to and operatively connected with both said valves, substantially as shown and described, for the purpose specified. 5th. In a water-heater, a steam-coil within said heater, an exhaust-steam pipe having a valve therein, connected with said steam-coil, a live-steam pipe having a valve therein, connected with said steam-coil, and a single valve-casing common to both said steam-pipes and valves, substantially as shown and described, for the purpose specified. 6th. In a water-heater, a temperature indicator consisting of a hand or pointer and a graduated dial, operatively connected with the adjusting screw r , governing the point of contact between the expansion-rod extension r and the steam-valve controlling lever n , substantially as shown and described, for the purpose specified. 7th. A water-heater, having an expansible rod in said heater, an extension of said rod outside of said heater having an internally threaded axial bore, a contact-piece movable longitudinally in said bore, a regulating screw in said bore adapted to move said contact-piece, a post secured to said expansion-rod extension, a hand or pointer fixed to said post, a circumferentially toothed, graduated dial, journaled upon said post, and a pinion on said regulating screw engaging the teeth of said dial-plate, in combination with a lever engaged by said contact-piece and controlling the source of heat for said heater, all substantially as and for the purpose specified. 8th. A water-heater, comprising and combining the following elements, 1 a shell having its upper and lower parts connected by a return water-pipe, a thermostat in said shell, 3 a thermostat chamber having its opposite ends closed by diaphragms connected to said thermostat, 4 a live steam-pipe and an exhaust steam pipe connected to said heating coil of said water-heater, each of said pipes having a valve connected with and controlled by said thermostat, and 5 an adjustable temperature indicator connected with said thermostat and governing the point of contact between the thermostat and the steam valve mechanism, substantially as and for the purpose specified.

No. 47,548. Clothes Horse. (*Séchoir à linge.*)

George Henry Garrow, jr., Aurora, Ontario, Canada, 26th November, 1894; 6 years.

Claim.—1st. A number of arms A , surrounding and hinged to a