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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 19,718. Brick Machine. (*Machine à Brique.*) William L. Gregg, Philadelphia, Penn., U. S., 4th July, 1884; 5 years.

Claim.—1st. In a brick machine, a hopper supported above an intermittently revolving mould-board or table, in combination with such mould-board and devices for agitating the hopper, substantially as and for the purposes specified. 2nd. In a brick machine, a hopper supported above a rotating mould-board or table, and devices for agitating the hopper, in combination with such mould-board or table, and a stamp or plunger located in the hopper and devices for automatically operating such stamp or plunger, substantially as and for the purposes specified. 3rd. In a brick machine, a pressure plate J provided with holes or vents, for the purposes of permitting the escape of air and surplus clay from the mould when pressure is applied to its contents, in combination with an intermittently rotating mould-table and an agitating hopper, substantially as and for the purposes specified. 4th. In a brick machine, a movable receptacle Q, automatically operated for the purpose of distributing colouring material or other material over the hopper surface or edge of a brick while being made, substantially as specified. 5th. In a brick machine, a movable box R, automatically operated for the purpose of pushing the brick from the table, and at the same time applying colouring material or other material to the surface of the piston or follower, substantially as specified. 6th. The combination of the shaft T, mutilated gear-wheel t, gear-wheel u, shaft W and arm v for the purposes of operating the stamp and receptacles Q, R, substantially as specified. 7th. The combination of the shaft T, mutilated gear-wheel t, gear-wheel u, shaft W, arms v and c, rod r, lever P, arm p and stamp N, substantially as and for the purposes specified. 8th. The combination of the shaft T, mutilated gear-wheel t, gear-wheel u, shaft W, arms v and b1 and receptacle Q, substantially as and for the purpose specified. 9th. The combination of the shaft T, mutilated gear-wheel t, gear-wheel u, shaft W, arms v, d1, e1 and receptacle R, substantially as and for the purpose specified.

No. 19,719. Straw Band Grain Binder. (*Lieuse à Grain avec Lien de Paille.*)

Hooper Tuttle, Cedar Rapids, Iowa, U. S., 4th July, 1884; 5 years.
Claim.—1st. In combination, with the chamber B, the supporting and dividing darts c, c1, substantially as and for the purpose set forth. 2nd. In combination, with the chamber B, the supporting and dividing darts c, c1, and fingers F, F1, substantially as described. 3rd. In a grain-binder, the cylinder H having longitudinal chambers h, h and provided with spring fingers h1 and arm h2, in combination with spur wheel I, substantially as and for the purpose described. 4th. In combination, with a cylinder H having chambers h and operating in connection with fingers F, F1, the spring-fingers h1 suitably tripped by the driving mechanism, substantially as shown and described. 5th. In combination, with a grain-binder mechanism, substantially as described, for twisting the strands of a straw band and mechanism for receiving the strands and twisting the two in a direction opposite to the first twist of the several strands, substantially as described. 6th. In combination, with a grain-binder, of mechanism, substantially as described, for twisting the several strands of a straw band, mechanism for receiving the strands and twisting the same in a direction opposite the first twist of the several strands, and the rolls K for

holding and drawing out the complete band. 7th. In combination, with the twisting mechanism and the band-fastening mechanism, the tension-pulley m swinging on the frame, the rod m1, clutch m2 and cylinder H, constructed and operated substantially as and for the purpose set forth. 8th. The grasper P composed of jaws p1, p2 and twister Pr having jaws p6, substantially as described. 9th. The swing-arm p, operated as described, and carrying grasper P composed of fixed jaws p1 and movable jaws p2, twister Pr, cam 8 and pawl p3, substantially as set forth. 10th. The grasper P and twister Pr, as described, having head p7, combined with socket Q and shaft q, operated as set forth. 11th. In combination, with the grasper P, twister Pr and socket Q, all substantially as set forth, the knife R and tucker S, each operated as described. 12th. In a grain-binder fixed and spring stops to control the passage of the bound gavel from the machine, whereby it will land upon the ground on its butt, substantially as set forth. 13th. In a grain-binder, the arm p, operated substantially as set forth, having pin p5 in its end to which is attached the twister P, the head p7, spring p10 and cam p8, combined with socket Q and shaft q2, substantially as set forth. 14th. The cylinder H, as described, provided with chamber h and mounted in bearings A1, in combination with the fixed gear H3 and revolving spring arms h4, all substantially as described. 15th. The cylinder H, as described, provided with chamber h and mounted in bearings A1, in combination with the fixed gear H3, revolving spring arms h4 and the rolls K for drawing out the straw bands and holding them in fixed position relatively to each other while being twisted together after they have come out of the cylinder H. 16th. In a grain-binder, the mechanism for making the strands, combined with the mechanism for twisting the same reversely into a continuous band, all substantially as described. 17th. In a grain-binder, the combination, with a receptacle for holding the straws which are to form the band of dividing darts which pierce the body of the straw at or near the middle of its length, and separate small quantities at a time to feed the same to the band-making apparatus, and mechanism for moving said darts from each other towards the ends of the straw to form a perfect separation of the same, substantially as set forth. 18th. In combination, with the twisting-cylinder and the band-placing arm, the swinging-tension lever pivoted to the frame and having a rod connected therewith for operating the sliding-clutch of the twisted cylinder, substantially as described.

No. 19,720. Seat and Foot-Board for Row Boats. (*Siège et Appui-Pied pour Canots à Rames.*)

James J. Turpel, Halifax, N. S., 4th July, 1884; 5 years.

Claim.—1st. A row boat provided with a sliding seat and a sliding foot-board connected together, and mechanism for causing the said seat and foot-board to automatically return to their normal positions, substantially as herein shown and described. 2nd. A row boat provided with a sliding seat and with a sliding foot-board, which are combined to move in opposite directions, substantially as herein shown and described. 3rd. The combination, with a row boat, of a sliding seat and a sliding foot-board, a lever swinging in the vertical plane, and connecting rods for connecting the seat and foot-board with the ends of the said lever, substantially as herein shown and described. 4th. The combination, with a row boat, of a sliding seat and a sliding foot-board, of a spring for moving the seat forward and of devices for connecting the seat and foot-board in such a manner that they slide in opposite directions, substantially as herein shown and described. 5th. The combination, with a row boat, of the sliding seat A, the sliding foot-board J, the lever E, the connecting rods D and M connecting the ends of the lever E with the seat A and foot-board J respectively, the spring G and the cross-piece H, substantially as herein shown and described.

No. 19,721. Toe-Weight for Horses.

(*Pesée pour Sabots de Cheval.*)

Edwin G. Miles, Fenton, Mich., U. S., 4th July, 1884; 5 years.

Claim.—1st. The toe weight A having an inner concave surface to fit the hoof B, and provided with a perforation or perforations, as shown and described, whereby the weight may be rigidly secured to the hoof by screws only. 2nd. In a toe weight, the weight A (Fig. 2) with inner concave surface and perforations a, dove-tailed slot and the spur c, as shown and described for the purpose set forth.