

set-screw β^1 , in combination, as shown and described. 5th. In a grain and seed separator, the combination of shoe E, having the grain board N, pivotally attached at T, and held in one of its positions by button α^2 , the rock-shaft H, having pivotal bearings at each end and provided with the centrally located arm r , socket r^1 , the boxes t , t , and arm γ , all substantially as shown and specified. 6th. In a grain and seed separator, the combination of shoe D, spring supports F, rock-shaft H, arms u , u , pivotally connected to said shoe, arm γ , connecting rod q , and crank-wheel I, as shown and described.

No. 35,102. Combined Revolving Grate and Hot Air Distributer. (*Grille tournante et distributeur d'air chaud combinés.*)

Walter Moberly, Archibald and Arthur F. Eden, all of Winnipeg, Manitoba, Canada, 1st October, 1890; 5 years.

Claim.—1st. The revolving grate D, secured to standard A, and working on centre B, on hearthstone K, and in bar C, at top, substantially as set forth. 2nd. The revolving grate D, secured to standard A, and working on centre B, on hearthstone K, and in bar C, at top, substantially as set forth, in combination, with movable hot air chamber or distributor R, having cold air ingress at α , α , and hot air egress at H, H.

No. 35,103. Knitting Machine.

(*Machine à tricoter.*)

Kay & Co., (assignees of Adam Kay), all of Georgetown, Ontario, Canada, 1st October, 1890; 5 years.

Claim.—1st. The rings B, and D, fitted loosely around the cylinder A, on either side of the driving pinion C, to which the said rings are geared, in combination with a movable bolt F, arranged to connect the cylinder A, to either one of the rings B, or D, substantially as specified. 2nd. The rings B, and D, fitted loosely around the cylinder A, on either side of the driving pinion C, to which the said rings are geared, a movable bolt F, being arranged to connect the cylinder A, to either one of the rings B, or D, in combination with automatically operating mechanism designed to act on the gate H, substantially as specified. 3rd. The rings B, and D, fitted loosely around the cylinder A, on either side of the driving pinion C, to which the said rings are geared, a movable bolt F, being arranged to connect the cylinder A, to either one of the rings B, or D, in combination with the gate H, connected to the shank J, and the slide K, having a diagonal slot L in it, through which the pin M passes, the pivoted lever N, revolving sprocket wheel Q, and chain R, substantially as specified.

No. 35,104. Seeding Machine. (*Sémoir.*)

Thomas Henry Noxon, Ingersoll, Ontario, Canada, 1st October, 1890; 5 years.

Claim.—1st. The drag-bar shaft A, supported at its centre in a bracket fixed to the bottom of the tongue S, and supported at each end by a horizontal bar B, fixed to and projecting from the axle-bracket D, and diagonally braced by the bar C, extending from the end of the shaft A, to an arm E, projecting from the bracket D, substantially as and for the purpose specified. 2nd. A drag-bar shaft A, having a longitudinal groove α , or its equivalent, in combination, with the drag-bar clips G, held on the shaft A, so that they may be adjusted thereon without being permitted to revolve, substantially as and for the purpose specified. 3rd. The drag-bar head L, having a notched projection N, extending from it, substantially as and for the purpose specified. 4th. The drag-bar head L, having a notched projection N, extending from it, with a lip or lips d , formed on one or both sides of the said projection, substantially as and for the purpose specified. 5th. The drag-bar head L, having a notched projection N, extending from it, in combination with the upwardly extending projection O, formed upon the head of the cultivator tooth or hoe, substantially as and for the purpose specified. 6th. The drag-bar head L, having a notched projection N, extending from it, with a lip or lips d , formed on one or both sides of the said projection, in combination with the upwardly extending projection O, formed upon the head of the cultivator-tooth or hoe, substantially as and for the purpose specified. 7th. The drag-bar head L, having a notched projection N, extending from it, in combination with the upwardly extending projection O, formed upon the head of the cultivator tooth or hoe, and with the headed bolt Q, extending from the face of the projection P, and designed to fit into the elongated slot U, substantially as and for the purpose specified. 8th. The drag-bar head L, having a notched projection N, extending from it, in combination with the upwardly extending projection O, formed upon the head of the cultivator tooth or hoe, and with the headed bolt Q, extending from the face of the projection P, and fitting into the elongated slot U, a spring bolt V, designed to support the hoe or tooth, substantially as and for the purpose specified. 9th. The arm W, extending from the drag-bar head L, and having a fork K, formed on it to receive the chain Y, in combination with the flange Z, extending from the side of the head of the cultivator tooth or hoe, substantially as and for the purpose specified.

No. 35,105. Clothes Dryer. (*Séchoir à linge.*)

Martin Sears, Ashburn, Ontario, Canada, 1st October, 1890; 5 years.

Claim.—In a clothes dryer, the combination of the angular post A, having feet α , the arms B, pivotally secured thereon, the slats C, and the legs D, pivotally secured at the ends of the arms, substantially as set forth.

No. 35,106. Railway Car. (*Char de chemin de fer.*)

Joel Bacon Low, San Francisco, California, U.S.A., 1st October, 1890; 5 years.

Claim.—1st. A convertible open and closed railway car, having seats with reversible backs, which when turned outwardly, close the lower portion of the car sides, and when turned inwardly, open said lower portion of the car sides, substantially as herein described. 2nd. A convertible open and closed railway car, having reversible seats with reversible backs, the latter of which by their own turning, and the turning of their seats, are adapted to be adjusted easily and accurately to close or to open the lower portion of the car sides, and sashes so arranged as to close and to open the upper portion of the car sides, substantially as described. 3rd. A convertible open and closed railway car, having sides of open frame work, reversible seats, and reversible seat backs, which when turned outwardly, close the lower portion of open frame work sides, and when turned inwardly, open said sides, and sashes housed in the reversible backs when said backs are turned inwardly, and adapted, when said backs are turned outwardly, to be raised therefrom, and to close the upper portion of the open frame work sides of the car, substantially as described.

No. 35,107. Curling Iron Heater.

(*Réchaud pour fers à friser.*)

Robert Nicol, Jr., Chicago, Illinois, U.S.A., 1st October, 1890; 5 years.

Claim.—1st. A curling iron shield 1, having a support 2, located thereon. 2nd. The combination of a bracket composed of two arms 12, formed with loops, and a shield 1, supported thereby. 3rd. A shield for a curling iron, composed of a body portion 1, and radial ribs 3, projecting therefrom. 4th. A shield for a curling iron, composed of a body portion 1, a support composed of flange 2, and radial arms 3.

No. 35,108. Combined Clamp and Miter-Box. (*Serre-joint et boîte à onglet combinés.*)

Horace Clarence Marsh, Rockford, Illinois, U.S.A., 1st October, 1890; 5 years.

Claim.—1st. In combination, a standard, a horizontal bracket jointed thereto, as shown, and capable of being turned perpendicularly downward, a turn-table pivotally mounted upon said bracket, and a miter-box secured to said turn-table, substantially as described, and for the purpose specified. 2nd. The herein-described combination miter-box and picture frame clamp, consisting essentially of a standard, a horizontal bracket jointed thereto, and capable of being turned perpendicularly downward, a turn-table pivotally mounted upon said bracket, as shown, and a miter-box secured to said turn-table, and provided with saw-guide pins and clamps, substantially as described and for the purpose set forth.

No. 35,109. Seat for Road Vehicles.

(*Sidje de voiture.*)

John Robert Kaufman, Waterloo, Ontario, Canada, 1st October, 1890; 5 years.

Claim.—A vehicle seat, having a back hinged to the body, and held by tension springs provided with means for adjusting their strength, substantially as and for the purpose specified.

No. 35,110. Cut-Off for Telephones.

(*Interrupteur de téléphone.*)

Edwin Cann, Winnipeg, Manitoba, Canada, 1st October, 1890; 5 years.

Claim.—1st. A three-wire system of telephone communication, substantially as and for the purpose above set forth. 2nd. A three-wire system of telephone communication, having a non-electric conductor beam 7a, working on centre pin 7b, lever 7c, with audiphone holder 7c, spring metal plates 7d, 7d, nut 7f, studs 16a, 16b, 16c, 16d, 16e, 16f, 16g and 16h, with wires, substantially as and for the purpose above set forth. 3rd. A three-wire system of telephone communication having a non-electric conductor beam 7a, working on centre pin lever 7c, with audiphone holder 7c, spring metal plates 7d, 7d, nut 7f, stud 16a, 16b, 16c, 16d, 16e, 16f, 16g and 16h, with wires in combination with electro-magnet 1, support 2, armature 3, support 4, point supporters 5 and 6, with points 17, 17, and wires, substantially as and for the purpose above set forth. 4th. The combination of non-electric conductor beam 7a, working on centre pin 7b, with lever 7c, audiphone holder 7c, spring metal plates 7d, 7d, nut 7f, studs 16a, 16b, 16c, 16d, 16e, 16f, 16g and 16h, with wires, substantially as and for the purpose above set forth.

No. 35,111. Machine for Cutting Meat, etc.

(*Machine à hacher la viande, etc.*)

Hermann Albrecht, Philadelphia, Pennsylvania, U.S.A., 1st October, 1890; 5 years.

Claim.—1st. The combination to form the casing for a machine for cutting up meat, of a main casting, embodying a neck, a conical shell fitted to said neck and provided with a latch stud and a latch, the shank of which is mounted upon and capable of adjustment with reference to the main casting, substantially as set forth. 2nd. The combination to form the casing for a machine for cutting up meat, of a main casting embodying a neck provided with studs, a conical