

bar adapted to hook over the edge of the bottom of said galley. 2nd. The combination of the bar C, mechanism for securing the said bar to the galley at each end, foot H sliding upon the said bar, and mechanism for clamping the said foot to the bar at any desired point. 3rd. The combination of the bar C, head D rigidly secured thereto, and adapted to fit over the end of the galley and provided with the set screw p, attachment G adapted to hook over the edge of the bottom, at the opposite end of the galley foot H sliding upon the bar C, and mechanism for clamping the said foot to the bar at any desired point. 4th. In combination with the bar C and mechanism for attaching the lower end of the same to the galley, the head D, clamping screw r and sliding guard E. 5th. In combination with the angle bar C and with mechanism for attaching the same to the galley at each end, the sliding foot H comprising the plate g having the parallel flanges f and f' said flanges f lying upon the top of said bar C and curving around into the angle thereof, and said flanges f' resting against the flat face of said bar, and the eccentric clamp e pivoted between the said flanges. 6th. In combination with the bar C and mechanism for securing it at its upper end to the galley, the device G for securing said bar to the galley at its opposite end, said device comprising the plate m secured to the bar C and having the L-shaped projection i provided with the notch h. 7th. In combination with the bar C and mechanism for securing it at its upper end to the galley, the device G for securing said bar to the galley at its opposite end, and made adjustable by means of the slot k in said bar, and screw l.

No. 12,134. Improvements on Stovepipe Dam-pers. (*Perfectionnements aux clés des tuyaux de poêles.*)

William F. Green, (Assignee of John H. Goodfellow,) Troy, N.Y., U.S., 19th July, 1881; for 5 years.

Claim.—1st. A stove pipe damper provided with a spring conforming to, or circumscribing a portion of the periphery of such damper. 2nd. A stovepipe damper, provided with springs B B', each conforming to, or circumscribing a portion of the periphery of such damper. 3rd. A stovepipe damper, provided with a spring having a pivot of the damper of such spring. 4th. A stovepipe damper provided with springs B B' having thereon the pivots D D'. 5th. A stovepipe damper provided with supporting pivots, and a spring or springs shaped and arranged as described, all made of the same material and in one piece.

No. 13,135. Improvements on Carriage Bodies. (*Perfectionnements aux carasses des voitures.*)

Hazard W. Titus and Aurelius O. Revenaugh, Jackson, Mich., U.S., 19th July, 1881; for 5 years.

Claim.—1st. In a vehicle body, a sill having the seat portion B, the bottom C, and the connecting parts D formed from a continuously grained piece of work bent into the shape shown. 2nd. In a vehicle body, a sill having the seat support B, the bottom part C, and the connecting part D formed by bending a continuous piece of wood, and the bracket a bent from a continuously grained piece of wood, and secured to the sills at the points of curvature. 3rd. The combination, with the seat, of the brace M M'.

No. 13,136. Improvements on Steam Pumps. (*Perfectionnements aux pompes à vapeur.*)

Rush J. Pettibone and John H. Elward, Stillwater, Minn., U.S., 19th July, 1881; for 5 years.

Claim.—1st. The combination, with the crank wheel of a steam piston rod, water plunger and slotted link, the latter arranged diagonally to the piston rod and water plunger. 2nd. The combination, with the crank, of a steam piston rod, water plunger and slotted link, the latter arranged diagonally to the piston rod and water plunger, and the link, piston rod and plunger made in a single piece.

No. 13,137. Improvements on Electric Lamps. (*Perfectionnements aux lampes électriques.*)

The European Electric Company, (Assignee of Charles A. Hussey,) New York, U.S., 19th July, 1881; for 5 years.

Claim.—1st. In an electric lamp, the combination, with a body capable of being rotated or turned, containing within it two or more independent carbons, of means whereby, when said body is rotated or turned, the ends of the carbons, or holders receiving the same, are shifted to bring the carbons successively into the electric circuit. 2nd. The combination, with an electric lamp, of a stationary contact piece, and a number of resistance devices arranged upon a common support which may be rotated to bring said resistance devices with the circuit of the lamp, to vary or extinguish the light. 3rd. The combination, with an electric lamp, of a rotary spool furnished with coils of fine wire and means connected with the circuit of the lamp whereby, on the rotation of the spool by a hand piece, more or less of its coils may be thrown into the lamp circuit, and the resistance in the circuit varied.

No. 13,138. Improvements in Pumps. (*Perfectionnements dans les pompes.*)

Charles Powell, Toronto, Ont., 19th July, 1881; (Re-issue of Patent No. 11,018.)

Claim.—1st. A pump head constructed in sections, which are coupled together by a tubular core connecting with the spout. 2nd. A wooden pump head formed in sections, which are coupled together by an enlarged water chamber B provided with a tubular core, composed of two tubes projecting in opposite directions from the centre of the upper and lower faces of the water chamber, each of said tubes being driven into a section of the pump head. 3rd. A wooden pump head formed in sections, which are coupled together by a water chamber provided with a spout and a tubular core, composed of two opposite transverse tubes, each of the latter being driven into a section of the pump head. 4th. A pump head consisting of two sections a' a' coupled together by a water chamber B having the transverse tubes B' and spout B, the coupling and spout being cast in one piece. 5th. A pump head constructed in sections, which are coupled together by a tubular core having a water connection with the spout or an air vessel. 6th. The water

chamber B having the transverse tubes B' B', spout B' and an air vessel B', all cast in one piece. 7th. The combination, with the handle and pump rod of a pump, of the swinging crane E, said crane being pivoted in connection with the pump head in any suitable manner, and adapted to move to permit the self-adjustment of the fulcrum of the handle. 8th. The combination of the handle pump rod, swinging crane and the air vessel, said crane being pivoted to the air vessel. 9th. In a pump in which the piston is operated by a rod passing through the pump head, the combination of packing or packing box containing packing arranged to constitute, between the pump head and moving rod, a connection to form a force pump, which connection can be broken without disturbing or tearing asunder the material composing the packing within the said packing box, when it is desired to change the pump from a force into an ordinary lifting pump, without friction between the moving rod and packing. 10th. In a pump in which the piston is operated by a rod passing through the pump head, a packing made to fit the rod tightly, in combination with a clamping bar or fork, by which the packing may be held tightly against the pump head when the pump is required as a force pump or released therefrom when required merely as a lift pump. 11th. The combination, with a flanged packing box F and the pump rod C, of the T-shaped projecting a on the pump head and clamping bar G. 12th. The packing box F provided with the flange F' and a recess in the bottom face, in combination with the pump rod C, circular collar F' fitting in the bore of the pump head, and the packing f. 13th. In a pump in which the piston is operated by a rod passing through the pump head, the combination of a packing or a packing box containing packing arranged to constitute for the moving piston rod the required joint to form a force pump, which joint can be broken without disturbing or tearing asunder the material composing the packing, when it is desired to change the pump from a force pump into an ordinary lifting pump, to work without appreciable friction on the moving rod. 14th. The combination of a flexible band H', the ends of which are secured a short distance apart to the lever H, for the purpose of forming a hose coupling.

No. 13,139. Gear Trip for Harvesters. (*Engrenage des moissonneurs.*)

Robert Thomson and Alfred R. Williams, Stratford, Ont., (Assignees of Orville Cooley, Brockport, N. Y., U.S.,) 20th July, 1881; (Extension of Patent No. 6,329.)

No. 13,140. Pitman Connection for Mowing and other Machines. (*Bielle de raccordement pour machines à faucher et autres.*)

Robert Thomson and Alfred R. Williams, Stratford, Ont., (Assignees of Orville Cooley, Brockport, N. Y., U.S.,) 20th July, 1881; (Extension of Patent No. 6,330.)

No. 13,141. Stripper, Tightener and Guide for Belts and Endless Chains. (*Appareil pour tendre, engrener et guider les courroies et les chaînes sans fin.*)

Robert Thomson and Alfred R. Williams, Stratford, Ont., (Assignees of Orville Cooley, Brockport, N. Y., U.S.,) 20th July, 1881; (Extension of Patent No. 6,331.)

No. 13,142. Improvements in Harvesting Machines. (*Perfectionnements dans les moissonneuses.*)

Robert Thomson and Alfred R. Williams, Stratford, Ont., (Assignees of Orville Cooley, Brockport, N. Y., U.S.,) 20th July, 1881; (Extension of Patent No. 6,332.)

No. 13,143. Improvement in Reapers and Harvesters. (*Perfectionnements dans les faucheuses-moissonneuses.*)

Robert Thomson, and Alfred R. Williams, Stratford, Ont., (Assignees of Orville Cooley, Brockport, N. Y., U.S.,) 20th July, 1881; (Extension of Patent No. 6,333.)

No. 13,144. Improvements in Reaping and Harvesting Machines. (*Perfectionnements aux machines pour faucher et moissonner.*)

Robert Thomson, and Alfred R. Williams, Stratford, Ont., (Assignees of Orville Cooley, Brockport, N. Y., U.S.,) 20th July, 1881; (Extension of Patent No. 6,334.)

No. 13,145. Improvements on Machines for Buffing Soles. (*Perfectionnements aux machines à polir les semelles.*)

George H. P. Flagg, (Assignee of Frederick W. Coy,) Boston, Mass., U.S., 21st July, 1881; for 15 years.

Claim.—1st. The combination of roll a, pulley d and mechanism for mowing pulley d towards and from roll a and for adjusting the axis of the pulley with relation to the axis of the roll. 2nd. The spring d' with reference to roll a and pulley d, whereby the strain on belt f depends upon the tensions of spring d'. 3rd. The improved shank wheel having the slit b in its rim b', and mechanism for springing the rim b' and thereby clamping the ends of the abrasive strip between the walls of slit b'. 4th. In a shank wheel, the slit b' in the rim b', the slit b' being inclined and adapted to hold one end of the abrasive strip, because of the acute angle the slit b' forms with the periphery of the wheel and the corresponding short bend in the abrasive strip.

No. 13,146. Improvements on Grain Drill Distributors. (*Perfectionnements aux distributeurs des semoirs traceurs.*)

James Noxon, Ingersoll, Ont., 21st July, 1881; for 5 years.