No. 15,274. Improvements in Ventilating Windows. (*Perfectionnements aux croisées d'aérage.*

Sarah Hart, (Assignee of Heaman Hart,) Munsie, Ind,, U,S., 10th August, 1882; for 5 years.

Claim.—1st. In a window, the bottom *e*, bottom *d* and bottom *c*, space *s* and strip *i*. 2nd. The combination of openings *a*, wire screen *b*, space *s* and deflector *f*.

No. 15,275. Improvements in Button Boots and Shoes. (*Perfectionnements aux chaussures boutonnées.*)

Edouard Lanthier, Montreal, Que., 10th August, 1882; for 5 years.

Claim.—1st. The toe piece or vamp C of a button boot or shoe with incision C_1 cut so as to give any lap or seam desired. 2nd. The combination, in a button boot or shoe, of the toe piece or vamp C, sides or quarters A and B and button hole piece D.

No. 15,276. Improvements on carriage seats.

(*Perfectionnements aux sièges des voitures.*)

John W. Anderson, Lancaster, (Assignee of Theophilus Weaver, Harrisburgh,) Penn., U.S., 10th August, 1882; for 5 years.

Claim.—1st. In carriage seat supporting frames each composed of two uprights *d* d_1 and two transverse bars F K, pivoted or fulcrumed together to form a freely shifting lay down parallelogram with an added transverse bar or seat attaching arm A_1 hinged to bar F and applied to hold in erected position the said uprights and to release the same. 2nd. The seat supporting frames *d* d_1 A_1 F K with parts constructed and combined as set forth, the extensions H_1 H_2 or their equivalents on the hinge parts A_1 F, for limiting the lift of the seat in adjusting it and for securing it. 3rd. In the self stayed shifting frames for supporting the rear seat B of a carriage, the combination of two attracting plates B_2 K and two braces R R_1 pivoted together freely, of which the riser form brace R is squarely retreated rearward at its middle, presenting a perpendicular brace between said plates at both positions of said seat, and permitting the front seat A, of any length desired, to be retired under the rear seat when it is adjusted forward. 4th. The self-sustained jump seat frames B_2 K R R_1 whose riser form brace R, limits the movement thereof both ways, in combination with said brace the extension K_1. 5th. The combination of the rear carriage seat B and two self-sustained shifting frames B_2 K R R_1, of which latter the braces R are retreated rearward at their middle to admit the front seat A of full length in front of and under them, when adjusted as a single seated carriage. 6th. The rear seat B of a carriage supported solely on self-sustained shifting frames B_2 K R R_1 independent of the sides of the carriage body, in combination with the skirtings N and the shifting panel M attached to said seat, for closing the carriage body as a single seated conveyance. 7th. The panel attachment M hinged to the back of jump seat B, in combination with the keepers *q*, the eyes *m* and base M1, all co-operating. 8th. In combination with the lazy back arms *b*1, the stops a_2 arranged away from the knuckles a_1, by which the folding arms E are jointed to the handles E_1.

No. 15,277. Improvements on Automatic Feeding Apparatus for Nail Cutting Machines. (*Perfectionnements aux appareils d'alimentation automatique des machines à découper le clou.*)

Louis M. Sénécal, St. Henri (Town,) and J. de Gaspé Stuart, Montreal, Que., 10th August, 1882; for 5 years.

Claim.—1st. In combination with a nail cutting machine, a transverse horizontal spindle carried in front of same and receiving position rocking motion through a series of levers and rods from a cam mounted on the cam shaft of the nail machine, said transverse shaft imparting such rocking motion through pulleys to a barrel or cylinder carrying the nail plate, either side of which is thereby presented to the cutters. 2nd. The triple cam operating by its rotation, to give to the levers D suitably pivoted independent longitudinal and simultaneous lateral rocking motion. 3rd. The barrel or cylinder holding the nail plate formed in two parts and rotated in different proportions of a complete revolution. 4th. The combination, with the cylinder K, of spring N engaging with stop or recess in cylinder K_1 and rotating it for the desired distance, and detent N3 for disengaging same. 5th. The combination, with the cylinder rotated alternately in either direction and holding the nail plate, of nipping levers which, by means of a projection on the end of one engaging with a cam on the rim of the cylinder, simultaneously open the nippers and feed the nail plate forward. 6th. The combination, with the cylinder holding nail plate, of a rod suitably carried, supporting the nipping levers and provided with retractile spring, and set screw for regulating extent of retraction and amount of feed. 7th. In a nail feeding apparatus, the combination, with the barrel holding the nail plate, of the nose pieces or conductors L L. 8th. The stop L_1 secured on the bed plate and pressing against nose piece L. 9th. The combination, with one of the standards carrying the cylinder, of the levers R and P operated by cam Q on shaft H, and arm O connected adjustably with lever P and having thereon spring S operating against lever K. 10th. The combination, with the pulleys H1 H2 and *k*, of wire or other metallic ropes. 11th. In a nail feeding apparatus, the transverse shaft carrying the feed mechanism and provided with devices whereby its position, with respect to the nail cutting machine, may be varied either vertically or laterally, or by which it may be moved further from or nearer to said machine. 12th. The combination of the arm O secured to the nail cutting machine, so as to move free in two directions, and lever P connected with horizontal shaft carrying feed apparatus, these being provided with suitable means for connection together and, when detached, disconnecting the nail feed apparatus from the nail cutting machine. 13th. In a nail feeding apparatus, the combination of the following elements, viz: a cam on the shaft of the nail machine conveying initial motion, levers and rods for imparting same in either direction to rock shaft, a cylinder holding plate and rotated in either direction from shaft by metallic ropes, mechanism for feeding the plate forward and regulating amount of feed, devices for rocking cylinder while being rotated, and means for conducting plate to the bed plate and regulating same.

No. 15,278. Improvements in printing presses. (*Perfectionnements aux presses d'imprimerie.*)

George L. Adams and John C. Ellsworth, Fowlerville, Mich., U. S., 10th August, 1882: for 5 years.

Claim.—1st. In a printing press having a flat bed to be reciprocated by hand power an impression cylinder, the combination of said cylinder journalled in movable bearings with the pivoted hand lever connected with said bearings and having its handle in proximity to the handle for reciprocating the bed, whereby the impression cylinder can be raised and lowered, and the bed reciprocated by the operator, all without change in the latter's position. 2nd. The combination, with the impression cylinder journalled in movable bearings having springs above them, of the vertical lifting rods, the rock shaft, the cams P, the lever R, connecting link S and the hand lever T having its handle projecting in proximity to the handle by which the bed is reciprocated.

No. 15,279. Remedy for Diphtheria, Catarrh and Croup. (*Remède pour la diphthérie, le catarrhe et le croup.*)

Henry Dierlam, Zurich, and Justus Linge, Hay, Ont., (Assignees of Edward Evans, Oregon, Mo., U.S.,) 10th August, 1882; for 5 years.

Claim.—A compound of ground alum, borax, powdered cubebs, crystallized nitrate of silver and golden seal root.

No. 15,280. Improvements on Thill Couplings. (*Perfectionnements aux armons des limonières.*)

The Guelph Carriage Goods Company, Guelph, Ont., (Assignee of Alexander P. Ladd, of St. Lawrence, N. Y., U. S.,) 10th August, 1882; (extension of patent No. 7761.)

No. 15,281. Improvements on Thill Couplings. (*Perfectionnements aux armons des limonières.*)

The Guelph Carriage Goods Company, Guelph, Ont., (Assignees of Alexander P. Ladd, St. Lawrence, N.Y., U.S.,) 11th August, 1882; (Extension of Patent No. 7761.)

No. 15,282. Improvements on Cocks and Valves. (*Perfectionnements dans la robinetterie des machines à vapeur.*)

David R. Ashton, Clapton. and James N. Sperryn, Brixton Hill, Eng., 11th August, 1882; for 5 years.

Claim.—1st. In a screw down cock or valve in which the valve spindle is furnished with a cupped plunger or piston, and the body of the cork is formed with a barrel in which said plunger or piston works. 2nd. In a screw down cork or valve, the combination, with a valve and spindle provided with a cupped plunger or piston working in a barrel on the body as specified, of a screw-down cap handle or knob pressing on but turning independently of the valve spindle. 3rd. In a screw down cock or valve, a screw cap enclosing and screwing upon a barrel formed on the body and acting on a valve spindle having a suitable packing or piston contained in the barrel. 4th. A screw-down cock or valve in which the valve spindle has a cupped plunger or piston working in a barrel and is pressed by a screw cap, in which the cap is connected to the spindle so as to lift it when unscrewed, whilst turning independently thereof.

No. 15,283. Improvements on Saw Jointers and Gauges. (*Perfectionnements aux machines et aux jauges pour affûter les scies.*)

Robert E. Poindexter, Indianapolis, Ind., U.S., 11th August, 1882; for 15 years.

Claim.—1st. In a saw jointer and gauge, the combination of the frame A and gauge plate E having a slot *e*. 2nd. The combination of the frame A provided with ribs a_1 a^2, stay portions *b b* and lugs *d d*, the clamping bar B, the screw C and the file. 3rd. The combination of the frame A provided with the ribs and flanges a_1 a_2 A_1 A_2, stay bars *b b* and lugs *d d*, the clamping bar B, screw C, file D and gauge plate.

No. 15,284. Improvements on Hoop Buckles.

(*Perfectionnements aux manchons des cercles.*)

James M, Williams, jr., Hamilton, Ont., 11th August, 1882; for 5 years.

Claim.—A metal buckle and rivets in one piece and used for joining hoops together.

No. 15,285. Improvements in Mitts.

(*Perfectionnements dans les mitaines.*)

John Thurman, Philadelphia, Penn., U.S., 11th August, 1882; for 5 years.

Claim.—As a new article of manufacture, the mitt knitted or otherwire formed of woolen, or other material, and composed of the body A, wrist B formed of continuous yarns and having apertures C D, the latter being formed by the narrow strips *d* of the yarn.