

lamp chimney J and deflector P, said deflector P being supported by a bracket affixed to said plate independently of said lamp and chimney, substantially as and for the purpose specified. 3rd. The combination of the chimney J, chimney-supporting plate M resting at its respective ends upon the eccentrics L, eccentrics L and lamps C, said plate M and the chimneys thereon being adapted to be raised and lowered by turning said eccentrics, and said lamps engaged with or disengaged from said chimneys, substantially as and for the purpose set forth. 4th. In an oil stove, the combination, with the body A, of the chimney-supporting plate M located at the bottom of the combustion chamber, deflector supporting bracket R affixed to said plate M, deflector P affixed to said bracket R above the lamp C within the chimney J, chimney J and lamp C, substantially as set forth.

No. 27,102. Draught Hook for Vehicles.

(*Crochet de tirage de voiture.*)

George Heon, Resto O. Wood and Julia B. Wood, Manchester, N.H., U.S., 2nd July, 1887; 5 years.

Claim.—1st. The combination of draw-bar D, nut E, spring C, tube A and T-brace, substantially as herein described and set forth. 2nd. The combination of draw-bar D, nut E, spring C, tube A and T-brace, with the thills and cross-bar of a vehicle, in the manner and for the purposes substantially as herein described.

No. 27,103. Clothes Pin. (*Épingle d'Étendage.*)

William H. Johnson, Onslow C. Mann and George E. Marvine, Delhi, N.Y., U.S., 2nd July, 1887; 5 years.

Claim.—A clothes-pin formed of a single piece of metal, bent upon itself to form two substantially parallel arms, one of which is bifurcated and said arms bent to form hooks and springs to engage the line and hold the said pin in place thereon, substantially as shown and described.

No. 27,104. Torsion Spring for Vehicles.

(*Ressort de voiture.*)

Benjamin D. Shaw, Beverly Ohio, and A. W. Hayward, Chicago, Ill., U.S., 2nd July, 1887; 5 years.

Claim.—1st. The combination, with the axle, of the cross-bars D, D₁ and the springs E, E, all connected together and adapted to operate in the manner described. 2nd. In a vehicle torsion-spring, the link 10 made movable along the arms 11 and 12, from 13 to 4 to regulate the length and stiffness of the spring, as set forth.

No. 27,105. Flower Pot. (*Pot à fleurs.*)

James W. Black, Berwick, N.S., 2nd July, 1887; 5 years.

Claim.—A flower-pot with the combination of the clips or attachment C, the holes or rings d, d, d, and the bracket or rings E, E, substantially as and for the purpose hereinbefore set forth.

No. 27,106. Wire Fence. (*Clôture en fil de fer.*)

John G. Schiller, Youngstown, Ohio, U.S., 2nd July, 1887; 5 years.

Claim.—1st. A joint securing plate for the vertical and horizontal wires, of a wire fence consisting of a metal plate having a diametric semi-cylindrical groove extending from edge to edge thereof, and an elongated diametric slot across-section, said groove at the centre of the plate, the outer ends of the slot and the inner ends of the two parts of the groove (at the points it meets the slot) being chamfered or inclined, as set forth. 2nd. In combination, a plate having on one face, a diametric semi-cylindrical groove extending from edge to edge, and an elongated slot crossing said groove at the centre, a wire provided with a V-shaped or curved bend projected through said slot, and another wire laid in said groove and passed through the apex of said bend, substantially as set forth. 3rd. A wire fence consisting of suitable posts, horizontal and vertical wires and joint-plates, the joints of said fence each consisting of a plate having an elongated diametric slot having chamfered or inclined outer ends, and a diametric semi-cylindrical groove crossing said slots and chamfered at the crossing, a vertical wire having a bend thrust through said chamfered slot and a horizontal wire laid in said groove and passed through said bend, as set forth.

No. 27,107. Fan Motor for Rocking Chairs.

(*Porte-éventail pour fauteuils à bascule.*)

Moïse Marcoux, St. Eugène de Grantham, Que., 2nd July, 1887; 5 years.

Claim.—1st. An adjustable rocking-chair fan motor secured to the rocker of the chair, and operating a swinging fan by means of the levers, geared segments, standard cord, pulley and spring, as herein shown and described. 2nd. In a rocking-chair fan motor, the levers G and H fulcrumed on the bow E, and having the geared segments i and j arranged to operate the fan A through the cord L, pulley C, and spring m, substantially as herein shown and described. 3rd. In a rocking-chair fan motor, the combination of the bow E secured to the chair rocker by the set screw f, with the levers G and H fulcrumed on it, and provided with the geared segments i and j, the wheel k, cord l, standard D, spring m, pulley C and fan A, substantially as herein shown and described.

No. 27,108. Pencil Sharpener. (*Taille-Crayon.*)

Charles E. Gould and Frank H. Cook, Leominster, Mass., U.S., 2nd July, 1887; 5 years.

Claim.—1st. In a pencil sharpener, a disk provided with an abrading surface, a chuck pivoted to swing at right angles to the plane of said disk and a cranked miter gear engaging gears on said parts, whereby they are simultaneously rotated in opposite directions. 2nd. In a pencil-sharpener, a disk provided with an abrading surface, a chuck pivoted on the frame at a point beyond the edge of the disk, and forward of the plane thereof, and adapted to swing in a plane at

right angles to the plane of said disk and a cranked miter gear engaging gears on said parts, whereby they are simultaneously rotated in opposite directions. 3rd. In a pencil sharpener, the combination of the disk H, said paper F covering the surface thereof, a plate R disposed over the center of said sheet of sand paper, and a screw i passing through said plate and clamping said paper F at the center of the disk H. 4th. In a pencil-sharpener, the combination, with a cranked miter-gear Q, of a shaft E provided with an abrading-disk H, a pinion J connected to said shaft and meshing with the miter Q, a swinging stock M, and a clutch O working therein and provided with a pinion Y meshing with said miter gear Q. 5th. In a pencil sharpener, a chuck for holding the pencil provided with the rods v, f, plates w and elastic band a, substantially as and for the purpose specified. 6th. In a pencil-sharpener, the chuck O having the cap P and end T, and provided with the rods v, f, plates w and elastic band a, combined and arranged to operate substantially as set forth. 7th. In a pencil-sharpener, the plates w having the flaring ends d, in combination with the rods v, elastic band a and body of the chuck O, substantially as set forth. 8th. The improved pencil sharpener herein described, the same consisting of the body B having the brackets C, K, the journaled gear Q provided with the crank l, the chuck O provided with the pinion Y, the disk H provided with the paper F, clamp R and screw i, the shaft E provided with the pinion J and the pivoted stock M provided with the handle m, combined and arranged to operate substantially as described.

No. 27,109. Manuel Power. (*Force à bras.*)

Jasper Bates, Thornbury, Ont., 2nd July, 1887; 5 years.

Claim.—1st. The combination, with the base A and lever G, of the toggle lever I, posts J, J, connecting rod K and lever M, as set forth. 2nd. The curved lever S, fulcrumed between posts J, J at the jointure of the toggle levers G I, and provided with a rigid handle W, as set forth.

No. 27,110. Fifth-Wheel for Vehicles.

(*Rond d'avant-train de voiture.*)

Robert McLaughlin, Oshawa, Ont., 2nd July, 1887; 5 years.

Claim.—1st. A fifth-wheel having an upper wear-iron notched to receive the under reach-iron, in combination with the under wear-iron, the layer or layers of rubber or other yielding material and pressure-plate, the whole being adjusted by a set screw working in a bracket, substantially as and for the purpose specified. 2nd. A fifth wheel having an upper wear-iron notched to receive the under reach iron, in combination with the under wear-iron having two lips or flanges formed on each side of the circle, the layer or layers of rubber or other yielding material and pressure-plate, the whole being adjusted by a set-screw working in a bracket, substantially as and for the purpose specified. 3rd. A fifth-wheel having an upper wear-iron notched to receive the under reach-iron, in combination with the under wear-iron having pins projecting through a layer or layers of rubber or other yielding material, and a pressure-plate, the whole being held together adjustably, substantially as and for the purpose specified. 4th. The under wear-iron a having the lips e, and the pins f formed on it, substantially as and for the purpose specified. 5th. The combination, with the fifth-wheel P and the reach, of the wear-iron h on said fifth-wheel, and recessed to receive said reach, the wear iron a having lips e to embrace and guide the fifth-wheel, and oppositely-extending pins f, the pressure-plate K sleeved on said pins the layer or layers of rubber S between the plate K and wear iron a and through which pins f pass, the bracket t embracing said wear-irons, pressure-plate and rubber and the set-screw n passed through said bracket and bearing on the pressure plate, substantially as shown and described and for the purpose specified.

No. 27,111. Car-Coupler. (*Attelage de Chars.*)

Eusébe Lalime, Malone, N.Y., U.S., 2nd July, 1887; 5 years.

Claim.—1st. The combination, with a draw-head formed with an upwardly extending hooked prong, of a swinging hook, a sleeve formed with a lever-arm and an inwardly-projecting feather, a link connecting the hook with the lever-arm of the sleeve, a cross-bar formed with a bit that is arranged within the sleeve and lever arms connected to the cross bar, substantially as described. 2nd. The combination with a draw-head formed with an upwardly and rearwardly extending hook or prong, and a forwardly-extending prong 19, of a hook formed with a point 21, a spur 22 and a shoulder 32, a sleeve having a lever 23 and an inwardly-extending feather 30, a link connecting the hook 20 with the lever 23, a bar 26 provided with lever-arms 31 and a bit 29, substantially as described.

No. 27,112. Button Fastener. (*Queue de bouton.*)

Eleazar Kempshall, New Britain, Conn., U.S., 2nd July, 1887; 5 years.

Claim.—A sheet-metal button fastener, consisting of a narrow head or base having an edgewise bearing surface, and having an integral puncturing prong projecting from said bearing surface, at a point to one side of the center of said surface, and in the same plane with the head or base, said prong being adapted in its tapered middle portion to be bended over to form a button holding loop or hook, and having at its apex a short lateral curve or bend projecting over the lower end of said head or base, and coinciding in shape with the curve of the finished loop or hook, the whole being adapted to be struck from a sheet of metal in its finished form, all substantially as described and for the purpose specified.

No. 27,113. Calculating Machine.

(*Machine à Calculer.*)

Frederick L. Bancroft, St. Paul, Minn., U.S., 2nd July, 1887; 5 years.

Claim.—1st. In a calculating machine, the eccentric cam D, off o, collar F, set screw a, combined with the pull G, pivot g, arm K, spring L, pin b, lever I, pivot f, spring M, pin c and pin e, all arranged and operating as set forth and described. 2nd. In a calculating