the middle of such bow k: 3rd. The truss pad b, connected to a bar or spring at the end of the strap p, passing between the legs, in combination with a spring or bar also connected with said strap and the bar a, and waist bolt g.

No. 1897. WILLIAM H. NICHOLS, Chatham, Ct., U. S., 13th December, 1872, for 5 years: "A Sleigh-Bell." (Clochette de traîneaux.)

Relates to a nearly spherical sleigh-bell made of sheet-metal in two parts and to a fastenin, for uniting same to the strap Caim. A sleigh-bell, composed of the two parts a and b, of sheet metal hardened as described, and united by flanges, a^i , and b^i . In combination with a sleigh-bell made in sections a and b, the former having the flat seat a^i , provided with two slots, the staple or tie c, designed for use as described.

No. 1898. ELI B. RICE. Madison. Wis., U. S., 13th December, 1872, for 5 years: "A Grain Harvester." (Une moissoneuse à grain.)

Consists in the combination of ondless rakes with elevating aprons, the two parts being formed of different widths, the narrowest part being placed at the frent and operating at greater speed than the rear, and wider parts.

Claim.—1st. The combination of the endless rake-apron with the elevating apron of a harvester, each composed of two or more parts, moving parallel to each other. The front part of each moving at a greater rate of speed than the rear parts; 2nd. In combination with the grain platform and the compound rake-apron, the removeable frame W; 3rd. In combination with the sickle, the double inclined angular projection D; 4th. The arrangement of the laterally swinging binders tables I, at each end of the concave Y, and the hinged platform F; 5th. The binders tables I, constructed as described and hung upon uprights J, at each end of the concave, by means of the socketed-studs K, and brace-rods L.

No. 1899. CHARLES BLACKTIN, St. Stephen, N. B., 13th December, 1872, for 10 years: "Method of Heating Buildings." (Méthode de chauffage des batiments.)

By a combination of ordinary stove-pipes and chimneys, one stove is made capable of heating several rooms.

Claim.—The dampers a, a, and b, b, in the chimney, and c, in the pipe and the passage of the pipe through the chimney, and the complete control of the heat thereby all combined, as shown in the drawing.

No. 1900. Henry Kuhlmann, Glückstadt, Holstein, Germany, 13th December, 1872, for 5 years: "A Pegging Machine."

Claim—1st. The machine for attaching the soles of boots and shoes to the uppers by means of pegs, and composed of slide A, and B, and its attachments, wood-guide c, vertical channel D, hammer F, with mechanism-guide H, slide K, shaft m, main-shaft S, with cams &c, upon it, shaft Z, the whole adjusted by lovers R, and Y, moved by any suitable power, and constructed, arranged and operating together in combination with each other and other parts of the machine, 2nd. The peg-feeding mechanism consisting of a slide C, dove-tailed guide H, dove-tail I, slide K, pin L, box m, screw P, spring P¹, punch P², transporting-wheels P³, and P⁴, lover P6, spring P¹, ratchet-wheel P², holder P³, actuated by disc K³, lover K², and slide K¹, all arranged and operating in combination with bands of hard wood O; 3rd. The peg-cutting mechanism consisting of joint P3, knife P1, lover P12, pivoted to slide and levers P13, and P14; 4th. The awl B, with cam R, on main-shaft S, guiding-rod B¹, lover B², spring B³, and catch B¹, all working together and in combination with other parts of the machine; 5th. The hammer F, and bin G, with cam T, guiding-rod T¹, tover-rod T², spring T³, and catch T⁴, in combination with channel D, and peg E; 6th. The lover V, with catch R¹, rod W, pin V², and rod m, all working in combination with slide C; 7th. The disc S¹, on shaft S, with cam-groove on its periphery-lover S³, slide S⁵, crank-lover M², and rod M, all working in combination with slide C, and other parts of the machine; 8th. The combination of the cam S¹, lovers S², and S³, rods M and M¹, and pincers X, all arranged and working in combination with slide C, and other parts of the machine; 10th. The rod Z, connected to crank-pin on wheel-lover Z¹, shaft Z², cam-wheel Z³, lever Z⁴, ratchet and pawl Z², and spindle Z⁵, working in combination with support A, and slide A¹, plane A², and lover Y, working in combination with slore parts of the machine; 10th. The rod Z, connected to crank-pin on wheel-lover Z¹, shaft Z², cam-wheel Z³, lever Z⁴, ratchet a

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