

No. 10,385. Improvements on Buggy Tops.*(Perfectionnements aux soufflets de voitures.)*

Edward N. Heney, Montreal, Que., (Assignee of William Davis), 21st August, 1879, for 5 years.

Claim.—1st. An adjustable buggy top frame capable, when raised, of being rigidly supported, without lacing, by the clamping arm C and screw f, also by the same means and by the arrangement of bows and stretchers folding up close when depressed and adjustable to any intermediate position; 2nd. In a buggy top frame, the single bow iron C pivoted above its extremity and having sockets for the pivoting of the other bow irons d d d, and provided with the clamping arm C, fulcrum bolt b and clamping bolt f, of wrought iron or steel, inserted with countersunk heads; 3rd. The method of forming the bow irons of a buggy top of a tubular shape consisting either of short tubular jointed sockets for the reception of wooden bows, or otherwise of sheet or wrought iron pipes formed with joints at the lower ends and extending upwards to the stretchers; 4th. The double strap k with knobs or buckles for adjusting and retaining the back curtain.

No. 10,386. Billiard Table. *(Table de billard.)*

Hugh W. Collender, New York, U. S., 21st August, 1879, for 5 years.

Claim.—1st. A billiard table, the body of which is composed of an inner wooden frame or framework having, combined with it, outer metallic plates or portions; 2nd. A billiard table, the body of which is composed of an inner wooden frame or framework, having combined with it, outer metallic plates or portions of lesser width, the wooden frame or framework projecting above the metallic plates or portions.

No. 10,387. Horse Shoe. *(Fer à cheval.)*

James M. Pitblado, George J. Grant and Thomas Clarke, Truro, N. S., (Assignees of Gerard Dunning and Charles B. George, Waukegan, Ill., U. S.), 21st August, 1879, (Extension of Patent No. 3809), for 5 years.

No. 10,388. Improvements on Harrows.*(Perfectionnements aux hermines.)*

Edwin R. Whitney, Magog, Que., and Charles L. Bossé, Montreal, Que., 21st August, 1879, for 5 years.

Claim.—1st. A connectable and integrally cast metal harrow tooth head A formed of cruciform arms, each arm having alternately a hook b and eye a and, centrally, a tooth d, whereby two or more heads may be connected to form a harrow; 2nd. A cast metal harrow tooth head A, formed of cruciform arms, each arm having alternately a hook b and eye a, and an inserted tooth d secured by a nut and screw or other fastening; 3rd. A flexible harrow composed of a series of cruciform heads A having a central tooth d connected by hooked joints.

No. 10,389. Improvements on Grates and Grate Bars for Stoves, Furnaces, &c. *(Perfectionnements aux grilles et aux barres de grilles de poêles, fourneaux, &c.)*

John McF. Crawford, Philadelphia, Pa., U. S., 21st August, 1879, for 5 years.

Claim.—1st. A grate composed of a series of independent concentric bars or rings adapted to be simultaneously oscillated, a part in one direction and a part in the other; 2nd. A grate composed of a series of two or more independent circular sections combined with a rock shaft, whereby said sections may be caused to move simultaneously in opposite concentric directions; 3rd. The rock shaft D having pins or cogs at unequal distances, on opposite sides alternately, from the middle of said shaft; 4th. The bearing bar C having posts c c, &c., with lugs c c; 5th. The combination of independent circular sections A B C, having slots, lugs or teeth, with a rock shaft D having pins, studs or cogs to engage therewith, said pins, studs or cogs being on opposite sides of and at unequal distances from the middle of said shaft; 6th. The independent circular sections A B C, having flanges a b c, in combination with bar C having posts c c with lugs c c; 7th. The combination, with rock shaft D having dogs G G, of bearing bar C having studs or stops g g; 8th. The combination of independent circular sections A B C with bearing bar C and rock shaft D; 9th. The combination of bar C, shaft D and key F; 10th. The combination, with bearing bar C and rock shaft D, of shaft H with winch h.

No. 10,390. Improvements in Hinges.*(Perfectionnements aux charnières.)*

Johann W. Morgeneier, Sheboygan, Wis., U. S., 27th August, 1879, for 5 years.

Claim.—A hinge having its flaps A B set at considerable angles with their vertical pin a and socket b, and provided with bevelled edges at b, so as to form dovetailed attachments for the hinge.

No. 10,391. Shingle Machine. *(Machine à bardeau.)*

Benjamin F. Penney, Dedham, Me., U. S., 27th August, 1879, for 5 years.

Claim.—1st. The combination of a carriage b, moving in a horizontal plane, with tracks x y guiding said carriage past the saw centre, and a saw c flush upon the side next the bolt and so arranged, with reference to the carriage, that a horizontal line drawn through the centre of the saw shall pass through the body of the bolt; 2nd. The set rolls d projecting at d and adapted to grasp the bolt beyond the set work jaws; 3rd. The combination of the carriage b and extended tracks x y and saw c, arranged with set works provided with set rolls d extending past the set work jaws m; 4th. The carriage b, provided with rollers h i, in combination with a guide e and adjustable guide f; 5th. The saw arbor f in combination with the adjustable journal boxes j j pivoted by bolts and nuts n upon slotted arms k k.

No. 10,392. Improvements on Waggon Springs. *(Perfectionnements aux voitures et ressorts.)*

Egbert P. Carter, Arcade, N.Y., U. S., 27th August, 1879, for 5 years.

Claim.—1st. The side springs consisting first of the single foundation leaf

1, having the second leaf, formed in two parts 2 2, set thereon each side of, and either leaving a space in the centre or else overlapping (when greater stiffness is required), and with the supplementary leaves 3 3 set thereon between the centre and ends; 2nd. The side springs having overlapping leaves 2 2 and supplementary leaves 3 3, each side spring arched upwards in the centre, and with counter curves between the centre and ends, in combination with half elliptic end springs forming the spring platform; 3rd. In combination with the waggon body D and the side springs A, the spring cross-bars C C having the conical vertical bolt-holes c c with the bolt a and interposed cushion b; 4th. In combination with the foundation leaf 1, the second leaf formed in two parts 2 2, the inner end of each overlapping in the centre of the spring whereby a freer action is got, as well as greater stiffness.

No. 10,393. Improvements on Fifth Wheels for Vehicles. *(Perfectionnements aux ronds d'avant train de voitures.)*

William W. Grier and Horatio Barr, Hulton, Pa., U. S., 29th August, 1879, for 5 years.

Claim.—1st. The combination of a saddle-brace, a king-bolt and a yoke for each, the yoke of the king-bolt being encircled by and turning within the other; 2nd. The combination of a saddle-brace, a clip king-bolt and a yoke for each, the yoke of the king-bolt being encircled by and turning within the other; 3rd. The combination of a clip king-bolt, a spring hanger and a yoke for the clip king-bolt circling within the hanger; 4th. The combination with a saddle-brace and king-bolt, each having an independent yoke and one yoke circling within the other, of a mud-plate or cap covering and protecting the bearings of the yokes.

No. 10,394. Telegraph Signalling Apparatus.*(Appareil de signaux télégraphiques.)*

William Hadden, New York, 29th August, 1879, for 5 years.

Claim.—1st. A non-conducting trough A, having wires B B connected with two corresponding series of exposed contact points in the bottom of the trough, in combination with a separate metallic circuit closer E having a bifurcated end; 2nd. The rheostat formed of a non-conducting tube L filled with carbon powder M, to adapt it to be applied to the circuit wires of a battery; 3rd. The combination of a local circuit J K and an adjustable rheostat L M with the line circuit G F F of a district telegraph signalling apparatus.

No. 10,395. Apparatus for Aging Liquors.*(Appareil à vieillir les liqueurs.)*

Moses G. Corey, Greensborough, Pa., U. S., 29th August, 1879, for 15 years.

Claim.—1st. The process for imparting the qualities of age to spirituous liquors, which consist in applying heat and agitation at the same time within the body of the liquor to be treated, said liquor being contained within a charred barrel, package or receptacle; 2nd. The process for imparting the qualities of age to spirituous liquors contained in a charred barrel, package, or similar receptacle, which consists in alternately heating and cooling the liquor.

No. 10,396. Shelf Supporters. *(Supports de tablettes.)*

Archibald Macfie, Chatham, Ont., August 29th, 1879, for 5 years.

Claim.—The rod A, either with or without the centre nut B or end nut C, but having one nut D or C or nuts B C and D, or any greater number of nuts, whereby the length of supporter may be varied to suit different distances between shelves, the whole to be used as a shelf supporter.

No. 10,397. Music Teaching Chart. *(Carte pour l'enseignement de la musique.)*

Gerritt S. Rice, Chicago, Ill., U. S., August 29th, 1879, for 5 years.

Claim.—1st. A movable chart or diagram having a governing central stationary key-note index arranged with exact spacing in connection therewith, so that all the intervals and harmonies of every scale and key, and the division of the same into families can be readily understood, and on which each required chord, position or interval, is correctly indicated and pointed out by the index hand or any other convenient signs on the said chart or diagram; 2nd. The register bar B with the sliding chord registers C C, said bar being designed to aid in teaching all manner of intervals used in music; 3rd. The system of harmonizing songs or melodies and of writing accompaniments made up of appropriate chords and harmony, by the terms tonic, subdominant and dominant, or any other equivalent terms or signs, which shall indicate the same harmony and intervals; 4th. The combination of the above described chart or diagram with the key board of an ordinary piano, organ, or other similar instrument, for the purpose of teaching the principles of harmony, and the writing of the same in a clear and comprehensive manner.

No. 10,398. Combined Sliding Box and Valve.*(Tiroir de vapeur et soupape.)*

Lewis H. Baker, Fairfield, Ill., U. S., 29th August, 1879, for 5 years.

Claim.—1st. The valve A and box B connected with each other by the abutments C C; 2nd. The valve seat F provided with steam ports c c, exhaust port d and steam openings or passages b b; 3rd. The combination of the steam chest D, valve A, box B and valve seat F.

No. 10,399. Improvements in Land Rollers.*(Perfectionnements aux rouleaux d'agriculture.)*

John Sampson, York, Ont., 29th August, 1879, for 5 years.

Claim.—1st. The roller sections provided with the independent slotted boxes E, said boxes being fitted to the ends of the roller sections and forming a fixed centre around which the roller sections rotate; 2nd. The roller sections provided with the slotted boxes E, in combination with the axle B; 3rd. The frame A, provided with the fixed axle B, in combination with two or more roller sections, provided with heads having slotted boxes E forming a fixed centre of rotation for the roller; 4th. The combination, with the adjustable roller sections, of the springs G.