

cavities F, F, the numbered strips J, J, the hooks H, H, and D, D, and the checks E, E, substantially as and for the purpose hereinbefore set forth.

No. 36,959. Adjustable Chair. (*Fauteuil brisé.*)

Antoine Charles Brodeur, St. Pie, Quebec, Canada, 14th July, 1891; 5 years.

Claim.—1st. In an adjustable chair, the combination, with the cross legged support having a seat E, of the pivoted leg rests F, having slots f, the sliding bar I, sliding in said slots, the arms K, pivoted to the said bar at their upper ends and connected by links at their lower ends, the adjustable foot board L, connected to the arms K by the links l, and notches k, the back pieces G, pivoted to the support having a top rail o, the fabric J, attached by its ends to the said sliding bar I, and top rail g, a head rest P, p, Q, pivoted to the said back pieces, notched plates R, r, and pin S, the springs O, connected with the support and the leg pieces F, substantially as set forth. 2nd. In an adjustable chair, the combination, with the pivoted front pieces F, the fabric J, secured at one end to the top rail of the chair, of the sliding bar I, to which the lower end of the said fabric is secured the said bar sliding in slots f, in the said pieces F, the pieces K, pivoted to the ends of the said bar I, the links M, having apertures m, adapted to be engaged by the pins n, the foot board B, links l, and notches K, substantially as set forth. 3rd. In an adjustable chair, the combination, with the arms H, pivotally connected to the leg rest and back of the pivoted blocks T, substantially as set forth. 4th. In an adjustable chair, the combination, with the pivoted back, of the pivoted head rest P, p, the fabric Q, the plate R, having notches r, and the pins S, substantially as set forth. 5th. In an adjustable chair, the combination, with a support carrying a pivoted leg and back, of the spiral springs O, connected to the said support and leg rest, substantially as set forth. 6th. In a support for an adjustable chair, the combination, with the cross legs A, B, pivoted together at a, rungs b, C, of the pivoted horizontal pieces D, to which is secured the seat E, the pins and slots c, and the hooks and pins d, substantially as set forth.

No. 36,960. Floor and Ceiling Plate for Steam Pipes. (*Plaque pour tuyaux de vapeur.*)

Allan Joseph Beaton, New Britain, Connecticut, U. S. A., 14th July, 1891; 5 years.

Claim.—1st. As a new article of manufacture, the herein described floor and ceiling plate, consisting of the hub or collar A, for fitting the pipe and the horizontally projecting flange for resting against the ceiling or floor, the same being divided into two parts a, b, hinged together as at 4, the lower end of said collar at a point underneath the flange 8, being divided in the form of overlapping circumferential lugs 5, 7, and provided with a diametrical set screw 6, all substantially as described and for the purpose specified.

No. 36,961. Float for Fishing Lines.

(*Flotte de ligne de pêche.*)

Lawson Cutter Cummins, Montpelier, Vermont, U. S. A., 14th July, 1891; 5 years.

Claim.—A fishing float, consisting of a hollow vessel of hemispherical form having a resonant fluted diaphragm rigidly secured across the mouth of the same to render it air tight, a tube secured within the vessel and at its apex, and extending nearly to the diaphragm, a loose ball or clapper located in the tube and free to impinge or strike against the diaphragm or to pass through the tube and strike the vessel, and an exterior knob or projection at the apex to which the line is attached, substantially as and for the purpose hereinbefore set forth.

No. 36,962. Machine for Shaving Ice.

(*Machine à casser la glace.*)

Frank O. Opitz, Osseo, Minnesota, U. S. A., 14th July, 1891; 5 years.

Claim.—1st. An ice scraper comprising an open frame and a handle which are integrally formed, the end d, of the frame being wide and inclined, the receptacle secured to the frame, and the cutter adjustably secured to the said inclined end bar, substantially as set forth. 2nd. The hereinbefore specified utensil, for the purpose set forth, the same being composed of a frame having side and end bars, the end bar d, being wide and inclined to the plane of the side bars, a cross bar B, arranged close to and parallel with the said inclined end bar d, the end and side bars having a vertical flange, a handle projected from the frame, a receptacle fitted over and secured to said vertical flange, and a cutter seated on the said inclined end bar of the frame, and adjustable thereon, substantially as and for the purpose described.

No. 36,963. Column and Condenser for Distilling. (*Colonne et condensateur pour la distillation.*)

Edward Bolton, Cincinnati, Ohio, U. S. A., 14th July, 1891; 5 years.

Claim.—1st. The combination, in a distilling column and condenser, of a coil section composed of a number of worms connected alternately at their outer and inner ends, in the manner described the upper worm being provided with an inlet and the lower worm with an outlet, for the purpose stated. 2nd. The combination, in a distilling column and condenser, of a series of coil sections placed one above another, each section being composed of a number of worms connected alternately at their outer and inner ends, in the

manner described, each upper worm being provided with an independent inlet, and each lower worm with a separate outlet, for the purpose stated. 3rd. The combination, in a distilling column and condenser, of a series of coil sections placed one above another, each section being composed of a number of worms connected alternately at their outer and inner ends, in the manner described, each upper worm being provided with an independent inlet, and each lower worm with a separate outlet communicating with a common elevated receptacle, for the purpose stated. 4th. The combination, in a distilling column and condenser, of a series of coil sections, constructed as described, and placed one above another, the spaces between the various worms of said coils being decreased upwardly, for the purpose stated. 5th. The combination, in a distilling column and condenser, of a coil section composed of a number of worms of different diameters, those of the smaller diameter being provided with partitions extending to the inclosing shell, for the purpose described.

No. 36,964. Saw for Cutting Stone.

(*Scie pour la pierre.*)

Robert Snarr, Toronto, Ontario, Canada, 14th July, 1891; 5 years.

Claim.—As an improved stone saw, a metal plate having a series of notches with substantially parallel sides made in the edge of the said saw blade, substantially as and for the purpose specified.

No. 36,965. Dash for Churns.

(*Cylindre de baratte.*)

Isaac Franklin Sterling, Texarkana, Texas, U. S. A., 14th July, 1891; 5 years.

Claim.—The combination in a churn dasher, of a handle, a spiral-bladed head journaled thereon, means, substantially as described, for engaging the head with the handle in its descent, and for setting the head free to revolve when ascending the said blades, forming a complete circle at their outer ends, and curved inward on their radial edges forming free vertical openings, substantially as described, whereby the cream at the circumference is pressed toward the centre in spiral streams during the descent of the dasher-head, and partially thrown away from center during its ascent.

No. 36,966. Drive Chain. (*Chaîne sans fin.*)

James Douglas Storie, Oshawa, Ontario, Canada, 14th July, 1891; 5 years.

Claim.—1st. A chain link having a lug or projection b, extending from the side bar in proximity to its adjacent link and so arranged that when the lug is hammered down it forms a stop to prevent the adjacent link coming apart from the link next it, as specified. 2nd. A chain link having a lug or projection b, formed on the side bar B, which lug when hammered down extends from the side bar into a recess formed in the side bar of the same or adjacent link, substantially as and for the purpose specified.

No. 36,967. Leg for Stoves. (*Pied de poêle.*)

Frank Phillips, Windsor, Ontario, Canada, 14th July, 1891; 5 years.

Claim.—The combination, with a stove leg, of a threaded bolt having on one end a caster and on the other end a knob, by which the same can be turned, said bolt being held in guides arranged at or near the opposite ends of the leg, one of which guides is threaded to fit the thread on the bolt, substantially as and for the purpose set forth.

No. 36,968. Cover for Stacks. (*Couvert de meule.*)

John Broughton, Covington Center, New York, U. S. A., 14th July, 1891; 5 years.

Claim.—1st. A portable roof-covering, consisting of a series of parallel slats, the lower edge of each lapping upon the contiguous slat, the slats being provided with slotted slides, whereby each slat may slide laterally upon the other, substantially as specified. 2nd. A series of parallel slats having transverse slotted holding-irons, the latter being each formed with inwardly projecting lips forming a race-way or chamber between the lips, and the slat, in combination with securing bolts formed with heads to enter said race-ways, the bodies of the bolts passing upwardly through the slots and through the overlapping slat, permitting the latter to slide laterally upon the slat beneath it, substantially as shown and described. 3rd. The combination, with rigid slats, of the transverse slotted binding-irons or holders bent over the slat, and the coupling hooks and securing links arranged, substantially as described and for the purpose set forth. 4th. A roof-covering, consisting of a series of parallel slats joined at their edges so as to fold one upon another, and provided with coupling-hooks and co-acting links at the ridge of the roof, and other links at the ridge of the roof, and other links at the lower edges of the lower slats at the sides or leaves of the roof and at the under surfaces of the slats, in combination with stay-ropes secured to said last named links, substantially as and for the purpose set forth.

No. 36,969. Self Adjusting Stopper for Bottles. (*Bouchon de bouteille.*)

Edward Lovejoy Brooks, Chicago, Illinois, U. S. A., 14th July, 1891; 5 years.

Claim.—1st. A self adjusting bottle stopper, comprising in combination, an elastic bulb A, formed of a thin flexible material and provided with circumferential stiffening rings in its expanding body portion, a guide core C, and a longitudinally moving plunger D, essentially as herein set forth. 2nd. A self adjusting bottle stopper comprising in combination, an elastic bulb A, a core C, in the mouth