

No. 38,641. Fire Escape. (*Sauveteur d'incendie*.)

Henry Schwannöcke, New York, State of New York, U.S.A., 5th April 1892; 5 years.

Claim.—1st. In a fire-escape, the combination, with two vertical tubular standards and a tubular slideway located above said standards, of a bar held to slide in each standard, chairs or balconies secured to said bars, one of which chairs or balconies is normally located at the upper end of one standard and the other at the lower end of the opposite standard, spring pressed brakes attached to the chairs or balconies, a cable connecting the rods to which the chairs or balconies are attached and passing through the slideway, and keepers attached to the upper portion of the standards, as and for the purpose specified. 2nd. In a fire-escape, the combination, with tubular standards provided with grooves in their front faces, a tubular base located at the lower end of each standard, a tubular slideway located above the standards, and a spring located within each base, of a bar held to slide in each standard, a cable connecting the bars and passing through the slideway, a chair or balcony attached to each bar, one of which chairs is normally located at the top of one standard and the other near the bottom of the opposite standard, a spring coiled around an extension of each of the sliding bars and adapted to enter the base of the standards, and disks attached to the springs and adapted to engage with the springs in the base of the standards, as and for the purpose set forth.

No. 38,642. Portable Wooden Booth.

(*Echoppe en bois portatif*.)

Charles Fred Hodsdon, New York, State of New York, U.S.A., 5th April, 1892; 5 years.

Claim.—1st. A portable wooden booth composed of an outer and smaller inner wall made up of hinged folding sections, a bottom or floor to receive and support the same, and separate tops or covers to the respective walls, whereby a complete dead air space is formed around and above the inner wall for the purposes, and substantially as set forth. 2nd. The combination, with the two sets of hinged folding sections forming the outer and inner walls of the bottom or floor having two parallel grooves to receive said walls, and the covers or tops *a* or *a'* having grooved under surfaces to set upon the said walls, whereby a dead air space is formed all around, substantially as set forth. 3rd. The combination in a portable wooden booth of two complete enclosures one within the other, each having sides, a swinging door, and a separable top, and one separable bottom, having grooves to receive the lower edges of the sides of the respective enclosures, substantially as specified.

No. 38,643. Hot Air Furnace. (*Calorifère à air*.)

Dwight S. Richardson, Brooklyn, New York, U.S.A., 5th April, 1892; 5 years.

Claim.—1st. A hot air furnace, having in combination a casing provided with the usual supply and discharge pipes for air, a fire pot and combustion chamber, and a drum located on substantially the same level as the combustion chamber, and provided with horizontal flues having between them a partition through which the heat from one portion of the current of products of combustion may be conducted to a succeeding portion of such currents, substantially as set forth. 2nd. The described radiator, having the vertically placed accelerating diaphragm *b*², the vertical air pipes *b*³ and *b*⁴, and the contiguous zigzag flue, in which the escaping products encircle the air pipes in succession, in combination with a hot air furnace, the combustion chamber of which is substantially in horizontal plane with the radiator. 3rd. The described radiator, having the vertically placed accelerating diaphragm *b*², the vertical air pipes *b*³ and *b*⁴, and the contiguous zigzag flue, in which the escaping products, moving in a horizontal plane, encircle the air pipes in succession, in combination with the furnace *A*, having smoke discharging opening opposite the accelerating diaphragm, as set forth.

No. 38,644. Elevated Railway. (*Chemin de fer aérien*.)

Henry King Wicksteed, Cobourg, Ontario, Canada, 5th April, 1892; 5 years.

Claim.—1st. An elevated railway, comprising a girder held rigidly suspended at an elevation above the roadway, and carrying rails, hangers having a rolling support upon said rails, and a car adjustably suspended on said hangers, substantially as set forth. 2nd. An elevated railway, consisting of two longitudinal girders, each carrying a bearing rail at the upper and a guide rail at the lower flange, said girders connected at intervals by short cross girders rigidly suspended from above or supported from below at an elevation from the roadway or ground, a hanger frame suspended from said upper rail by double flanged wheels, and guided by friction wheels at its lower end, and a car attached to said hanger by diagonally disposed adjustable suspension rods, substantially as set forth. 3rd. In an elevated railway, the combination of the longitudinal girders *A*, cross girders *B*, connecting the former at intervals, posts rigidly supporting said cross girders and bearing rails *D*, and guide rails *D*¹, on the upper and lower flanges respectively of the longitudinal girders, substantially as set forth. 4th. In an elevated railway, the combination of a car body *E*, diagonal suspension rods *F*, secured to the upper part of a car and having turnbuckles *f*, hanger arms *H*, having their upper and lower ends doubled over,

and supporting the suspension rods, the wheels *G*, journaled in the upper end of said arms and the friction wheels *G*¹, journaled in the lower ends of the same, substantially as set forth. 5th. In an elevated railway, the combination of arms *H*, having their ends doubled over, bars and braces *H*¹, connecting said arms, wheels *G*, journaled in the upper ends of said arms, and friction wheels *G*¹, journaled in the lower ends, substantially as set forth.

No. 38,645. Protector for Cow Udders.

(*Protecteur pour pis de vaches*.)

Henry Howland Chase, Duluth, Minnesota, U. S. A., 5th April, 1892; 5 years.

Claim.—In an udder protector, in combination, the udder-supporting bag, having a V-shaped formation at its upper edge, and conforming below said edge, substantially to the cow's bag, being closed at its rear and front, and provided with a buckle at each of its front upper ends, and with a ring at its rear central upper end, the extensible surcingle *B*, adapted to be passed entirely around the body of the cow, immediately forward of her hind legs, two cow-bag take-up buckling straps *E*, attached to the surcingle and connecting with the fastening means at the front ends of the udder-protecting bag, said surcingle also having an upper central backwardly extending attaching portion *D*, and the two rear supporting straps *C*, *C*¹, connected to the ring *c*¹, of the rear central end of the protector bag, and to the backwardly extending portion *D*, of the surcingle, the whole forming an udder protector which, while it is closed at both ends, is adjustable and can be readily manipulated for milking purposes, and as readily fastened up in position around the cow's bag, substantially as described.

No. 38,646. Draft Regulator. (*Régulateur du tirage*.)

Ira Frank Beers and Frederic Claire Beers, both of Elmira, New York, U. S. A., 5th April, 1892; 5 years.

Claim.—1st. In a draft regulator, the combination of a shaft, rotatably supported in a suitable frame, a pulley mounted thereon, a weighted cord wound on the pulley, an electro-magnet, an armature, a scape projecting from the shaft and engaging the armature, a battery, a thermostat, a make and brake device operated by the pulley, suitable electric connections between the battery, electro-magnet, thermostat make and brake device, and oppositely extending arms mounted upon said shaft, and having connection with the dampers to be operated, all substantially as set forth. 2nd. In a draft regulator, the combination of a shaft rotatably supported in a suitable frame, a pulley mounted thereon, a weighted cord wound upon said pulley, an electro-magnet, an armature, an adjustable scape projecting from the shaft and engaging the armature, a battery, a thermostat, spring fingers supported upon the frame adjacent to the shaft, a projecting screw or lug on the shaft, and adapted to engage with said fingers alternately, when the shaft rotates, suitable electrical connections between the battery, thermostat, spring fingers and electro-magnet, and oppositely extending adjustable arms mounted on opposite ends of the shaft, and connected with the dampers to be operated, substantially as set forth.

No. 38,647. Medicinal Plaster. (*Emplâtre médical*.)

Joseph Henry Osgood, Peabody, Massachusetts, U.S.A., 5th April, 1892; 5 years.

Claim.—1st. A medicinal plaster composed of a backing-piece surfaced with an adhesive material and having such surface, except that portion which is to cling to the person, covered with a fleece or layer of medicated cotton, wool, or equivalent fiber held to the backing by such adhesive material, substantially as shown and described. 2nd. A medicated plaster composed of a medicated backing-piece surfaced with an adhesive material and having such surface, except that portion which is to cling to the person, covered with a fleece or layer of medicated cotton, wool, or equivalent fiber held to the backing by such adhesive material, substantially as shown and described.

No. 38,648. Door Latch. (*Loquet de porte*.)

Cyrille Gagnon and Louis Lafabvre, both of Montreal, Quebec, Canada, 5th April, 1892; 5 years.

Claim.—The herein described combination with door knobs *M*, *M*, of thumb latches *A* having rectangular opening *D*, and double cam *E*, together with the catch *H*, fitting into the notch *I* in the coulisseau *G*, to lock the latch, substantially and for the purpose set forth and described.

No. 38,649. Wheel for the Propulsion of Vessels.

(*Roue pour la propulsion des vaisseaux*.)

Thomas Dunlap, Toledo, Ohio, U.S.A., 5th April, 1892; 5 years.

Claim.—1st. In a wheel for the propulsion of vessels, a body portion provided on its periphery with a plurality of radial striking faces having projections rearwardly extending and of like circumferential distance from the hub, and with tapering sides. 2nd. In a wheel for the propulsion of vessels, a cylindrical body provided on its periphery with a plurality of removable blades formed with striking faces, and projections of like circumference having sides decreasing from the broad area of its striking face to a point in rear