

and for the purpose specified. 8th In a knitting machine, having an electro-magnet permanently connected to its frame, the spring wire *g* connected to the said frame, in combination with the wire *D* leading from the battery of the electro-magnet and insulated from the frame of the machine, substantially as and for the purpose specified. 9th. In a knitting-machine, having an electro-magnet permanently connected to its frame, and a cup *R* containing mercury and insulated from the frame of the machine, but connecting with the wire *D*, as specified, the pointed lever *T* pivoted on the sliding plate *U* and having a notch *t* to fit over the stud *J*, a spring *K* for actuating the lever *T*, as specified, in combination with the spring, as designed, to hold the point of the lever *T* against the work to work so that, in the event of the said point falling into a hole in the work, the wire *t*, which is connected to the sliding plate *U* is thrown into the mercury in the cup *R*, substantially as and for the purpose specified. 10th. In a knitting machine having an electro-magnet permanently connected to its frame, and a cup *R* containing mercury and insulated from the frame of the machine, but connecting with the wire *D*, as specified, the burr *X* attached to the sliding-plate *U*, actuated by a spring *O* and connected to a wire *t* designed to fall into the mercury contained in the cup *R*, substantially as and for the purpose specified.

No. 23,076. Revolving Book Case.

(*Bibliothèque Tournante.*)

George V. Nauert, Cincinnati, Ohio, U. S., 5th January, 1886; 5 years.

Claim.—1st. A revolving book case body consisting of a series of shelves *E*, the interposed vertical partitions constituting a square central "well" *L* surrounded by four rectangular compartments *G*, and the vertical tie-rods or bolts *K* concealed in the well corners and holding the said shelves and partitions rigidly together, in the manner explained. 2nd. In a revolving book-case, the rotatable body consisting of a series of shelves *E*, the interposed quadruplex partitions *F*, which constitutes a square well *L*, surrounded by four similar rectangular compartments *G*, and enclosing and concealing the tie-rod, or bolts *K*, as and for the purpose set forth. 3rd. A revolving or rotatable book-case, composed of a series of separable shelves *E*, with interposed quadruplex partitions *F*, constituting a square well *L* surrounded by four rectangular compartments *G*, held together and in place by vertical tie-bolts *K* concealed in the angles of said well, substantially as set forth. 4th. In a revolving book-case, the body consisting of a series of shelves *E*, interposed quadruplex partitions *F*, bolts *K*, by which the shelves and partitions are locked together, and the metallic notched guards *H* supporting the edges of the shelves in the manner designated. 5th. In a revolving book-case, the superimposed leaf *O*, so hinged to the top shelf as to be available as a desk or book-rest, and fitting in a nearly air-tight recess in the top shelf in the closed position, substantially as set forth. 6th. In a revolving book-case, the superimposed leaf *O*, so hinged to the top shelf as to be available, as a book-rest, in combination with the spring prop *R* adapted to occupy one or other indentations of a rack *Q* on said leaf, as and for the purposes set forth.

No. 23,077. Sash Fastener. (*Arrête-Croisée.*)

John I. Baringer, Waterford, N. Y., U. S., 5th January, 1886; 5 years.

Claim.—1st. In a combined sash holder and lock, the casing, in combination with a rod journaled therein and having both a longitudinal and a rotary movement, a locking bolt arranged on the rod and actuated by the longitudinal movement thereof, and a second locking-bolt independent of the rod and operated by the partial turning of the same, as set forth. 2nd. In a combined sash lock and holder, the combination, with a casing, of a rod having a bolt mounted thereon, and a spring on said rod between the bolt and casing, said rod having an endwise movement, substantially as set forth. 3rd. In a combined sash lock and holder, the combination, with a casing, of a rod having a bearing therein, a bolt on said rod, a pinion mounted on a squared portion of the rod, and a bolt having bearings in the sides of the casing and a series of teeth to engage the pinion, substantially as set forth. 4th. In a combined sash-holder and lock, the combination, with a casing, of a threaded rod mounted therein and adapted to be moved endwise, a bolt on said rod and a spiral spring bearing against said bolt, a pinion mounted on a squared portion of the shaft, pins bearing against the sides of the pinion, a bolt having a series of teeth to engage the pinion and a spring bearing against said bolt, substantially as set forth.

No. 23,078. Burial Case. (*Cercueil.*)

Arthur S. Lovott, Erie, Pa., U. S., 5th January, 1886; 5 years.

Claim.—1st. The combination, in a burial casket, or coffin, or recesses in the corners, sides, or ends of such casket, or coffin, with glass or other transparent fronts or covers therefor, substantially as and for the purpose set forth. 2nd. The combination, in a burial casket, or coffin, or recesses in the corners, sides, or ends of such casket, or coffin, with mirror linings therefor, substantially as and for the purpose set forth. 3rd. The combination, in a burial casket, or coffin, or recesses in the corners, sides, or ends of such casket, with mirror linings and glass or other transparent fronts or covers therefor, substantially as and for the purpose set forth.

No. 23,079. Window Frame.

(*Châssis de Fenêtre.*)

Samuel F. Peters, London, Ont., 5th January, 1886; 5 years.

Claim.—The frame *a*, with its sill *b* and stops *c* and *d*, in which the winter sash, or summer fly-screen and the outside venetian blinds are made to operate, substantially as shown and described and for the purposes specified.

No. 23,080. Car Wheel. (*Roue de Char.*)

James Munton, Maywood, Ill., U. S., 5th January, 1886; 5 years.

Claim.—1st. The combination of centro *A*, provided with projecting rims *a* and *a'*, annular groove *a* and recesses *a*², with tire *B* having annular grooves *b*⁴ and *b*⁵ and rim *b*⁶ interlocking with said rims and grooves on said centro, and provided with lips *b*³ fitting in said recesses *a*², substantially as specified. 2nd. The combination of cast-iron centro *A*, with steel tire *B*, said centro and tire being provided with interlocking annular rims and grooves, said centro *A* having also recesses *a*² and said tire *B* having projecting web *b*², portions of which are turned down into said recesses *a*², substantially as specified.

No. 23,081. Composition Mastic for Covering Roofs, Telegraph Wires, &c. (*Composition Mastique pour Couvrir les Toits, les Fils Télégraphiques, &c.*)

Andrew Derrom, Paterson, N. J., U. S., 5th January, 1886; 5 years.

Claim.—The composition of hard bituminous deposit, and purified soft Venezuela bitumen, in the proportions specified.

No. 23,082. Burglar Proof Safe. (*Coffre-Fort.*)

J. and J. Taylor, (assignees of Thomas West,) Toronto, Ont., 5th January, 1886; 5 years.

Claim.—1st. A safe, or vault, with its corner or corners formed by an angle iron *A* having a head *b*, formed as specified, to receive the plates *E* and *F* which are rivetted or otherwise secured to the angle iron *A*, substantially as and for the purpose specified. 2nd. A safe or vault, with its corner or corners formed by a flanged plate *E* butting against the plate *F*, the two plates being secured together by the strip or batton *G* which is rivetted or otherwise fastened to them, substantially as and for the purpose specified. 3rd. A safe or vault with two corners of one end formed by a flanged plate *E* butting against the plate *F* and protected by the strip of batton *G*, and the other two corners of same end formed by the angle iron *A* having a head *b* to receive the plates *E*, *C* substantially as and for the purpose specified.

No. 23,083. Agricultural Fork.

(*Fourche d'Agriculture.*)

John F. Allen, Martinsdale, Montana, U. S., 5th January, 1886; 5 years.

Claim.—1st. The herein described agricultural fork, provided with the hollow sleeve or ferrule *B* having slot *a* and the handle *C*, provided with a corresponding slot *d*, the metallic blocks *b* and wedge *D*, substantially as and for the purpose specified. 2nd. In an agricultural fork, the hollow sleeve or ferrule *B* provided with the slot *a*, in combination with the handle *C* having metallic straps *c* and slot *d*, metallic blocks *b* having projections *b*¹ and wedge *D*, substantially as and for the purpose specified.

No. 23,084. Steam Cooker.

(*Cuisinière à Vapeur.*)

Henry West, Listowel, Ont., 5th January, 1886; 5 years.

Claim.—1st. A steam cooker, constructed as herein shown and described, and consisting of the combination of the sections *A* and *B* and cover *F*, with steam-tight joints on which sections *A* and *B* inwardly projecting ledges or flanges *C*, *C'*, are formed, perforated plates *D*, pit bottom *E*, hook *G*, pan *I* and pan *I'* formed with stops *K*, *K'*, and partitions *J*, *J'*, tube *L* provided with partition *N* and opening *O*, opening *S* in section *B* of cooker, and bail valve *M*, substantially as shown and described and for the purpose specified. 2nd. A steam cooker, constructed as herein shown and described, and consisting of the combination of the sections *A* and *B*, and cover *F*, with steam-tight joints on which sections *A* and *B* inwardly projecting ledges or flanges *C*, *C'*, are formed, perforated plates *D*, pit bottom *E*, hook *G*, pan *I* and pan *I'* formed with stops *K*, *K'* and partitions *J*, *J'*, tube *L*, opening *S* in lower end of section *B*, and steam whistle *R* in which is formed opening *S'*, substantially as shown and described and for the purpose set forth.

No. 23,085. Means for Converting Flour into Dough. (*Moyens pour Convertir la Farine en Pâte.*)

Perry F. Smith, Boston, Mass., U. S., 7th January, 1886; 5 years.

Claim.—1st. The combination of the hopper and its agitator, having mechanism for revolving it, as described, with four or other suitable number of atomizers arranged immediately below the outlet of such hopper, and provided with means of forcing air through their vents and of supplying water thereto, whereby when the hopper is charged with flour and such flour is stirred by the agitator and caused to fall in a divided state from the hopper, the particles of such flour shall be subjected to downward currents of air and spray or vapor thrown upon them by the atomizers, all being so as to cause such particles on falling together to be reduced to a spongy mass or dough, as set forth. 2nd. The mode or process, substantially as described, of treating flour for converting it into a spongy mass or dough such consisting in forcibly separating the particles asunder, and causing them in a divided state or cloud to pass or fall through the air, and whiloso passing or falling discharges upon them air and vapor or spray in a manner to moisten them and cause them when coming or falling together to adhere to each other and the mass to be permeated with air.