

No. 5576. Method and Machine for Manufacturing Scale Board Boxes.*(Mode et appareil de fabrication des boîtes en éclisses.)*

Harrison W. Hutchins, Livermore-Falls, Me., U. S., 10th January, 1876, for 5 years.

Claim.—1st. The cutters *n*, upon the rotary discs *m*, *m*₁, in connection with the stationary scoring devices *o*; 2nd. In combination with the cutters *n*, and scorers *o*, the scale board cutter *a*; 3rd. The carriages *d*, and *j*, moving upon tracks *e*, *k*, and operated simultaneously by the screw shaft *p*, in combination with the cutters *n*, scorers *o*, and scale-board knife *a*; 4th. The method of manufacturing wooden boxes by tonguing, grooving and scoring the wood to form the sides thereof before the same is separated from the log, and then cutting the said sides from a rotating log of wood, then bending the same into proper form uniting the ends of the sides, and fitting the sides thus formed around a rabbeted bottom-piece; 5th. A scale board box formed of sides made and fastened, and having a bottom secured by tongues and grooves to the tongued and grooved sides of the box.

No. 5577. Improvements on Stock Cars.*(Perfectionnements aux wagons à bestiaux.)*

John R. McPherson, Jersey, N. J., U. S., (Assignee of A. N. Stevonton and T. F. McGrath), 10th January, 1876, for 5 years.

Claim.—1st. A feed and water trough composed of separate sections, each section fitting between two well posts and supported upon a continuous shaft, whereby all the troughs may be simultaneously turned into position for feeding and watering, or turned up out of the way; 2nd. The combination of the bins *A*, provided with the supply openings *H*, and sluices *B*, partitions *a*, operated by the rods *b*, and levers *c*; 3rd. The combination of trough *C*, shafts *D*, and levers *E*.

No. 5578. Shirt Bosom Stretcher and Ironing Board.*(Planche pour tendre et repasser les devants de chemises.)*

Sidney B. Morrell, Kenosha, Wis., U. S., 10th January, 1876, for 5 years.

Claim.—The serpentine hinged spring brackets *D*, in combination with the board *A*, and the stretching and crimping strip *G*, also the neck bow *B*, either permanent or adjustable.

No. 5579. Copying Telegraph. (Télégraphe écrivain.)

William E. Sawyer, New-York, U. S., 10th January, 1876, for 15 years.

Claim.—1st. The method of preparing a message for transmission consisting in transferring by pressure the lines of writing first written upon ordinary or special paper to a metallic plate or surface; 2nd. The combination with transmitting and recording mechanism, having a less speed of motion than the operating mechanism of an electro magnetic regulator operated by a line current; 3rd. The combination with transmitting or recording mechanism operated by friction of driving mechanism having a greater speed of motion than the transmitting or recording mechanism; 4th. The method of operating a copying telegraph consisting in carrying the contact style or styles transversely over or around a cylindrical surface, each style moving in one continuous direction instead of moving back and forth; 5th. The combination with a longitudinally advancing carriage, of a transversely moving, transmitting or recording style or styles; 6th. In a transmitting or recording style or styles, carried over and under a cylindrical surface; 7th. The combination with a threaded shaft, of a transmitting or recording style or styles and a cylindrical surface so arranged that the revolutions of the shaft shall both advance the cylindrical surface longitudinally and give the style or styles, a transverse circular motion in respect to the cylindrical surface; 8th. A cylindrical carriage moving upon grooved ways; 9th. A cylindrical transmitting or receiving carriage; 10th. The method of keeping the instrument at different stations in synchronism and maintaining the steadiness of their motion, consisting in the employment of friction to actuate the transmitting or recording mechanism in combination with an electro magnetic regulator, so that the motion of the transmitting or recording mechanism may be arrested without arresting the motion of the motive or driving mechanism; 11th. The combination with a transmitting or recording style or styles of friction to actuate the same; 12th. An actuating shaft having a right and left hand thread; 13th. The combination with transmitting mechanism in part actuated by a left hand thread; 14th. The combination with transmitting mechanism operating in one direction, of recording mechanism operating in the opposite direction; 15th. A transmitting or recording style whose length is adjustable by a set screw; 16th. The combination with a cylindrical carriage of a hinged binding frame for holding the message blank in place; 17th. The combination with the carriage *d*, of the point *f*, to engage in the thread of the shaft; 18th. The electrical circuit in which a record is effected at the receiving station by short circuiting or diverting into the main line wire by means of contact or contacts at the transmitting station, the whole or a portion of a battery current which flows in an artificial line at the receiving station; 19th. The method of operating a line of telegraph consisting in directing into the main line a portion of a battery current whose normal circuit is an artificial line at the receiving station.

No. 5580. Improvements on Axle Boxes and**Axles. (Perfectionnements aux boîtes d'essieux et aux essieux.)**

Adolphe Payette, Montreal, Que., 10th January, 1876, for 5 years.

Claim.—1st. In combination with any ordinary axle with longitudinal groove *b*, the axle box *D*, having an annular chamber formed therein behind the hub of the wheel; 2nd. The combination of the axle box *D*, provided at its rear end with projections entering into recesses in the collar *G*, of any axle, and with shoulder embracing the said collar.

No. 5581. Improvements on Pinch, Spike and Claw Bars.*(Perfectionnements aux pinces, clous et leviers à griffes.)*

Dennis Brennan, Elkhart, Ind., U. S., 10th January, 1876, for 5 years.

Claim.—1st. The claw bar complete; the formation of the head of the bar; the combination and relative position of the claws *c*, *c*₁, to the ample fulcrum or wide bearing *d*, the combination of head and handle of the bar producing the leverage; 2nd. The construction of the head of the bar of T-rail, and the application of the T-rail in the construction of the claw-bar.

No. 5582. Lock Nuts. (Noix de sûreté.)

James B. Atwood, Wilbraham, Mass., U. S., 10th January, 1876, for 5 years.

Claim.—An improved lock nut having its outer end or face provided with one or more slots or cavities *a*, dividing that portion of the nut into two or more divisions *b*, in combination with the projecting part *c*, at the bearing opposite the divisions *b*, whereby the latter is thrown inward against the threaded portion of the bolt when the nut is turned up to a bearing.

No. 5583. Water Filter. (Filtre à l'eau.)

Paul de la Neuville, Thompsonville, Ct., U. S., 10th January, 1876, for 5 years.

Claim.—The combination of the tank *A*, the stone filtering slot *a*, and the plate *D*, provided with a carbon filtering material; 2nd. The combination of the tank *A*, the stone filtering slab *a*, the vessel *b*, and the plate *D*, provided with a carbon filtering medium.

No. 5584. Improvements on Combined Square and Mitre Bar.*(Perfectionnements aux sauterelles pliantes à onglets.)*

John C. Rorick, Wauseon, Ohio, U. S., 10th January, 1876, for 5 years.

Claim.—1st. The adjustable bar *B*, in combination with the square *A*; 2nd. The bar *B*, having a thumb screw fastening for fixing it adjustably to a square *A*.

No. 5585. Improvement on Apparatus for Heating Water.*(Perfectionnements aux appareils à chauffer l'eau.)*

Thomas M. Carroll, Oelwein, Iowa, U. S., 10th January, 1876, for 5 years.

Claim.—The fire box *A*, smoke pipe *d*, fuel pipe *C*, and draft *B*, provided with a regulator, the said pipes being connected directly to the top of the fire box.

No. 5586. Improvements on Duster.*(Perfectionnements aux plumeaux.)*

John L. Little, Muncie, Ind., U. S., 10th January, 1876, for 5 years.

Claim.—1st. A duster made of feathers or other suitable articles upon a flexible head; 2nd. A duster or brush constructed by securing the feathers or other articles to a flexible material, and winding the same around the handle.

No. 5587. Door Knob. (Bouton de porte.)

Charles Carpenter, Hamilton, Ont., 13th January, 1876, (Extension of Patent No. 785), for 5 years.

Claim.—Casting a knob in two pieces as shown, of grey iron or malleable cast and uniting them.

No. 5588. Improvement on Lubricating Cups.*(Perfectionnement des godets de lubrification.)*

Reuben W. Drew and Margaret P. R. B. Shackell, Wife of Henry Shackell, Montreal, Que., 15th January, 1876, for 5 years.

Claim.—1st. The manner and mode of keeping the parts in place by means of the cap or stopper *B*, bushing or sediment protector *D*, and seat *C*; 2nd. The regulating rod *E*, with projection *F*, and passage *P*.

No. 5589. Tenon Fastener for Chairs and other Furniture.*(Mode d'ajustage des tenons des chaises et autres meubles.)*

Lee D. Craig, San Francisco, Cal., U. S., 18th January, 1876, for 5 years.

Claim.—The fastener *A*.**No. 5590. Sewing Machine. (Machine à coudre.)**

Jeremiah Keith, Providence, R. I., U. S., 18th January, 1876, for 5 years.

Claim.—A reciprocating work feeder in combination with a separate presser, provided with mechanism for raising and holding it off the work, when the needle may be therein, in order that the feeder may be moved backward, underneath the work, and the latter during such movement be sustained by the needle; the combination of the auxiliary shaft *R*, its cam *T*, *Y*, *Z*, *A*₁, the latch *X*, stud *g*, reverser *W*, and the lever *Q*, with the main shaft *M*, its cams *S*, *B*₁, the presser *D*, and feeder *E*, and their operative levers *P*, *F*.

No. 5591. Machine for Making Bricks and Tiles. (Machine à brique et à tuile.)

George S. Tiffany, London, Ont., 18th January, 1876, for 5 years.

Claim.—1st. Connecting the auger shaft *F*, and mill shaft *G*, by means of the bevel wheel *A*, *B*, *C*, *D*, and intermediate shaft *E*; 2nd. The arrangement of the auger wholly within the cylinder; 3rd. The use of the clutch pin *O*, in the auger shaft and slot in hub of the auger; 4th. Supporting the core of the die on a stud which is screwed into the end of the auger shaft or otherwise fastened thereto, so that the stud may be readily renewed.

No. 5592. Well-auger. (Sonde de puit.)

William W. Jilz, St. Louis, Mo., U. S., 18th January, 1876, for 5 years.

Claim.—1st. The combination of the auger *A*, bottom *F*, lip *H*, and projection *I*; 2nd. The combination of the auger *A*, bottom *F*, and perforation *J*; 3rd. The combination of the auger *A*, bottom *F*, lip *H*, projection *I*, and perforation *J*; 4th. The combination of the auger *A*, and door *E*, provided with the hinges *K*, *K*, and lugs *k*, *k*; 5th. The combination of the auger *A*, air tube *C*, lip *H*, bottom *F*, and projection *I*; 6th. The combination of the auger *A*, flattened side *B*, bottom *F*, lip *H*, and projection *I*; 7th. The combination of the auger *A*, bottom *F*, valve *G*, lip *H*, and projection *I*; 8th. The combination of the auger *A*, knife *D*, bottom *F*, lip *H*, and projection *I*.