

No. 8566. Improvements on Saw Mill Carriages. (*Perfectionnements aux charriots des scieries.*)

Henry Hiscock, Mount Forest, Ont., 20th March, 1878, for 5 years.

Claim.—1st. The two parallel rack bars D having a reciprocal movement lengthwise in a frame G carrying a shaft F having a cog pinion E intermeshing the bars D which on alternate ends, are provided with clamps J for securing the log endwise. 2nd. In combination with the frame G the ratchet drum K on shaft I lever L having pawls M and springs N, for retaining the bars D fixedly when the clamps J are holding the log. 3rd. The knee standards A provided with slides R having pawls S for elevating the bars D. 4th. In combination with the knee standard A the dog T connecting rod I lever V and segment rack W for holding the log by dogging.

No. 8567. Improvements on Threshing Machines. (*Perfectionnements aux machines à battre.*)

Francis W. Glen, Oshawa, Ont., 20th March, 1878, for 5 years.

Claim.—In case hardening the point C₁ of a threshing machine cylinder and concave tooth C.

No. 8568. Improvement on Weather Strips. (*Perfectionnement des bourrelets de portes.*)

David O. Hink, Maryville, Miss., U.S., 20th March, 1878, for 5 years.

Claim.—A weather strip provided with an extension slide, clamped between the drop and spring.

No. 8569. Improvements on Blind Fixtures. (*Perfectionnements aux rouleaux des rubans.*)

Thomas H. Stanton, London, Ont., 20th March, 1878, for 5 years.

Claim.—1st. The combination of the cords J K L, hooks A B F and roller I provided with enlarged turned ends O P. 2nd. In combination with the above the cord I, hooks C D E and roller G provided with enlarged turned ends M N.

No. 8570. Improvements on Steam Boilers. (*Perfectionnements aux chaudières à vapeur.*)

William H. Wilson, William C. Harris and Rollin D. Rockwell, Westfield, N.Y., U.S., 20th March, 1878, for 5 years.

Claim.—1st. The combination of the annular base A and the segmental sections D D₁, constructed so as to receive the magazine G and suitably connected together at the top, and to the base at the bottom. 2nd. The combination of the annular base A with the sections D D₁ the steam pipes a and nipples b and top connections, and the magazine G.

No. 8571. Improvements on Handles for Saws. (*Perfectionnements aux manches de scies.*)

Eben M. Boynton, New York, U.S., 20th March, 1878, for 5 years.

Claim.—1st. A cross-cut saw handle consisting of a common hand saw handle D and an upright handle E secured thereto, 2nd. A saw handle provided with an internal chamber to receive files and similar tools, and with a screw cap or equivalent device for closing its end; 3rd. In combination with a saw provided with ears J, the handle D provided with hole G and the handle E provided with the bolt F washer H and hook I. 4th. A saw handle provided with an extension rod or bolt F K expanding and contracting by screwing together endwise, 5th. The slotted bolt or tang F provided with the tip I and the threaded hole in its upper end, the washer H mounted on the bolt, and the non-rotating handle E provided with the internal bolt or screw K.

No. 8572. Improvements on Gas Apparatus. (*Perfectionnements aux appareils à gaz.*)

William Smith, Pittsburgh, Pa., U.S., 20th March, 1878, for 15 years.

Claim.—1st. The combination of a series of vertical retorts having deflecting ribs, forming the central flue and side flues, with a series of channelled and perforated side walls, and central fire chamber. 2nd. The longitudinally grooved and perforated tile lining for gas retort furnaces. 3rd. The flask shaped gas retort provided with the neck and oil inlet, and adapted to be set vertically; 4th. In combination with the flask-shaped vertical retorts, the lifters or bearing blocks arranged thereunder.

No. 8573. Improvements on Reaping Machines. (*Perfectionnements aux moissonneuses.*)

John Pattison, Dorking, Ont., 20th March, 1878, for 5 years.

Claim.—1st. The combination with, and the application of swivel gear to the working or driving parts of reaping and mowing machines. 2nd. The star knuckle marked O separately, as well as in combination with the working parts of reaping and mowing machines.

No. 8574. Improvements on a Child's Waggon. (*Perfectionnements à une voiture d'enfant.*)

Frank X. Reno (Assignee of Abbott Q. Ross), Cincinnati, Ohio, U.S., 20th March, 1878, for 5 years.

Claim.—1st. The combination of a toy galloping horse mounted upon a carriage, and intermediate means between the horse and the propelling devices of the carriage whereby the galloping of the horse will cause the propulsion of the carriage or vice versa. 2nd. The combination of the galloping horse, the wheels of the carriage, mechanism of transmitting the motion from one to the other, and propelling means under the control of the rider. 3rd. The combination of the galloping horse, the reins for actuating it, the wheels of the carriage and intermediate mechanism for transmitting motion from the horse to the wheels; 4th. The shafts B united in front to form a tongue.

No. 8575. Improvements on Grain Separators. (*Perfectionnements aux séparateurs de grains.*)

James Donnelly, Columbus, Ohio, (Assignee of Edward S. Clark, Buffalo, N.Y.), U.S., 22nd March, 1878, for 5 years.

Claim.—1st. The wings of a fan for fanning mills made in sections D and D₁, the section D of each wing being stationary on the arms, and the section D₁ adjustable thereon. 2nd. The stationary curved guard-screen J placed in front of the fan above the lower set and in rear of the upper set of the movable screen in the shoe. 3rd. The springs K for supporting and adjusting the shoe.

No. 8576. Improvements on Vehicles. (*Perfectionnements aux voitures.*)

Sebastian Gitzinger and Abel A. Crosby, Rondout, N.Y., U.S., 22nd March, 1878, for 5 years.

Claim.—A vehicle constructed with U shaped springs arranged in pairs with the fold of one spring opposite to the fold of the other, and the ends of the springs secured to the sills of the body, and to the side bars or other supporting devices.

No. 8577. Improvements in Stringing Sleigh Bells. (*Perfectionnements dans l'attelage des gélols.*)

Frank Armstrong, Bridgeport, Ct., U.S., 22nd March, 1878, for 5 years.

Claim.—1st. A series of hinged metallic plates with bells attached thereto, and provided with suitable end fastenings. 2nd. The plates a, when made in two parts, and connected at their overlapping ends by the shank of the bell, or other rivet.

No. 8578. Improvements on Millstone Dressing Machines. (*Perfectionnements aux machines à rabiller les meules.*)

Samuel E. Griseom, Pottsville, Pa. (Assignee of Thomas McFeely, Union, Ind.) U.S., 22nd March, 1878, for 5 years.

Claim.—1st. The combination of the bed-plate B provided with a projection h and adapted to the surface of the stone, with the guide base A connected to the said projection. 2nd. The combination of the bed-plate of a millstone dressing machine with the base plate A adapted to be both tilted vertically and adjusted horizontally on the said bed-plate.

No. 8579. Improvements on Millstone Dressing Machines. (*Perfectionnements aux machines à rabiller les meules.*)

Samuel E. Griseom, Pottsville, Pa. (Assignee of Thomas McFeely, Union, Ind.) U.S., 22nd March, 1878, for 5 years.

Claim.—1st. The carriage bed pivoted to the sliding frame B and adapted to be inclined in respect to the same for dressing furrows. 2nd. The combination of the bed B, its ears Q and slotted standard G with the bed D hung to the ears Q provided with screws K and nuts F adapted to the standards. 3rd. The combination of the pivoted bed D with carriage C and its operating mechanism carried by, and adapted to rock with the bed.

No. 8580. Improvements on Glass Vessels. (*Perfectionnements aux vases de verres.*)

Daniel W. Norris, Elgin, Ill., U.S., 22nd March, 1878, for 5 years.

Claim.—1st. An incased glass vessel for containing and transporting liquids, having an elastic metallic rim extending under the edges of the bottom for the purpose of furnishing a support for the vessel without extending right through the bottom when the incased vessel is raised. 2nd. The combination of a glass vessel, paper side case, and metal top covering. 3rd. In combination with an incased glass vessel, a glass neck or collar around the supply or discharge orifice, having external screw threads, a metal covering around the periphery of the collar, and having screw threads and a screw cap ring, or nozzle adapted to overlap the metal covering. 4th. The combination of the lifting bail or handle and the inclosing case with a screw neck and a cap or ring screwing or otherwise secured around said neck, and lapping over the top covering whereby, in lifting the vessel, the whole or a portion of the weight is supported by the screw neck. 5th. In combination with the incased glass vessel herein described, the supplemental wooden bottom. 6th. The combination with a glass vessel, of a fixed metal cover provided with ears for the carrying bail.

No. 8581. Attachment for Bridling Brushes. (*Appareil à servir les pinceaux.*)

Charles Boeckh, Toronto, Ont., 22nd March, 1878, for 5 years.

Claim.—An independent and adjustable bridle for paint, whitewash and other brushes, formed by a stout wire band C, in combination with plates D D to allow of their adjustment upon the screws E used to secure the bridle to the handle H.

No. 8582. Improvements in Lanterns. (*Perfectionnements dans les lanternes.*)

Alfred L. Baron, Evan F. Cash and David Rankin, Bellaire, Ohio, U.S., 22nd March, 1878, for 5 years.

Claim.—1st. The method of counterbalancing the air currents in a lantern by admitting fresh air taken from above the outer globe through connecting chambers into the cone, and fresh air through the sides of the base to points above the cone, the two currents being kept separate and apart. 2nd. The combination of the air chamber C between the two globes, the air chamber C₁ between the double walls of the upper part of the base, and the air chamber C₂ between the top of the oil reservoir and the diaphragm above it, said air chamber being closed except for the entrance of air above the outer globe and for the exit of air into the interior of the cone. 3rd. In combination with upper base A of a lantern, of the air chamber C₂ in the same, the openings J J₁ made through the side of such upper base; 4th. The combination of the openings J J₁ and the perforated disc N; 5th. The com-