

No. 8038. Improvements on Waggon-Trestles.*(Perfectionnements aux avant-trains de wagons.)*

Laurin M. Fitch, Leonardsville, and Louis Roth, Rome, N.Y., U.S., 26th October, 1877, for 5 years.

Claim.—1st. The waggon platform trestle consisting of the centre bar B and the transverse bar D, arranged at right angles with each other, under the centre of the fifth wheel circle C, the head block A and the side timbers C C, diverging in direct lines therefrom, and extending to the draft-clevises, the diagonal brace irons F F, attached to centre and side timbers, and the lateral draft irons attached to head block and side-bars, all said irons supporting the transverse bar, and extending beyond the ends of the side timbers to form the draft-clevises; 2nd. The bridge-iron L passing under the centre bar B and secured to the transverse bar D, and the ends to the side timbers C C for trussing the intersection of the said bars.

No. 8039. Improvements on Shears for Cutting Sheet Metal.*(Perfectionnements aux cisaillures pour le métal en feuille.)*

Greene Choate, East Saginaw, Mich., U.S., 26th October, 1877, for 5 years.

Claim.—1st. Shears having cutting edges formed on an ogee or reversed curve; 2nd. The bed A having the curved cutting edge *a b*, arm *c* and guide pins *g*, and the curved shear blade B having arms *d*, in combination as shown.

No. 8040. Improvements on Milk Pans.*(Perfectionnements aux boîtes à lait.)*

William Fleeton, West Sheffield, Cassius S. Wells and Mark O. Thompson, Cowansville, Que., 26th October, 1877, for 5 years.

Claim.—The combination of the pan A, with the partition in one corner and the hole *b* in its bottom, with the jacket B provided with the overflow *d* and tap *e*.

No. 8041. Improvement in the Art of Ornamenting Glass.*(Perfectionnement dans l'art d'orner le verre.)*

William C. Barnes and Edward R. Kent, Hamilton, Ont., 26th October, 1877, for 5 years.

Claim.—The improved art or process of ornamenting glass, by means of wooden patterns through the instrumentality, and in combination with a sand blast.

No. 8042. Improvement on Animal Traps.*(Perfectionnement des ratières.)*

Chauncey M. Orton, Glens Falls, N.Y., U.S., 26th October, 1877, for 5 years.

Claim.—The combination of the sliding partition B having an opening formed through it, the drop bridge C, the weighted wire E F, with the box A, the plate D having an opening formed through it, and the door G provided with a flange *g* for setting and re-setting the trap.

No. 8043. Improvements on a Sawing Machine.*(Perfectionnements à une scierie.)*

Horace McCoy, Brome, Que., 26th October, 1877, for 5 years.

Claim.—1st. The combination of swinging rod D, cross-piece C, upright B, with shoes or flanges F and the track or curved bed *g*; 2nd. The coupling of the saw shaft L with crank shaft J, and crank shaft I with swinging rod D.

No. 8044. Improvements on Metallic Laths.*(Perfectionnements aux lattes métalliques.)*

Albert B. Lawler, Lewis J. Carpenter and John H. Lawler, Frederickville, Ill., U.S., 26th October, 1877, for 5 years.

Claim.—1st. A sheet metal lathe having formed in it folds or crimps, and provided with openings formed by punching out tongues or lips; 2nd. The metallic sheets A having formed in them the folds or crimps *b*.

No. 8045. Improvements on Punching Machines.*(Perfectionnements aux machines à poinçonner.)*

Greene Choate, East Saginaw, Mich., U.S., 26th October, 1877, for 5 years.

Claim.—1st. The bed A, in combination with the stop and guide pins *c f*, the dies *a*, guide B, punches C and lever *g*; 2nd. The combination of the springs *e* with the punches *c*.

No. 8046. Improvements on Corrugated Tubes and Plates.*(Perfectionnements aux tubes et aux plaques ridés.)*

Samson Fox, Leeds Forge, Eng., 26th October, 1877, for 5 years.

Claim.—1st. The process of corrugating by drawing the corrugations out of the sectional thickness of the plate of which the tube is formed; 2nd. The roll A constructed in sections N and N, with its prolonged axle, made so as with its drawing wheel to counterbalance the overhanging grooved or corrugated part of the roll, when its movable and bearing D D is opened; 3rd. The use, in combination of the prolonged roll A, the bearings B C, the end bearing constructed in parts D D, arranged to be moved away from the axis of the roll, and the hand-wheels K K and screws K₂ K₃ for operating the said parts D, so as to leave one end of the said roll free, to enable the tube to be corrugated to be slipped on to the roll A; 4th. In combination with the prolonged top roll A, its bearings B C and D, and means for operating the latter, the lower roll A, mounted in bearings E F having a vertical movement in the housings C₁ C₂ and the system of levers and links L₁ L₂ arranged to be actuated by steam, hydraulic, or other power connected to the part M;

5th. In combination with the main rolls A A₁ and means for adjusting and operating them, the additional rolls O O₁, one on each side of the "bight" of the main rolls A A₁, the slides P P₁ P₂ P₃, gearing Q, connecting shafts R and other parts constructed, arranged and operating as described, for causing the side rolls O O₁ to approach or recede from the main rolls A A₁ by turning the hand wheels S; 6th. The modified apparatus, wherein the corrugations are produced by dies T W representing segmental sections of the rolls A A₁, one such section T being placed in front of, and fixed to the pillar or post U, and the other W fixed opposite thereto on a slide V having reciprocating horizontal motion imparted to it, whereby the segmental die W is made to approach and recede from the die T, so that the metal of the tubes or plates is corrugated by the two dies; 7th. The described modification, wherein the segmental corrugated dies are arranged respectively, inside the segmentally formed box or cylinder Y, and outside the internal expanding block *a* made in section, the expansion of the said internal block being effected as explained.

No. 8047. Improvements in Machines for Binding Grain.*(Perfectionnement dans les machines à lier le grain.)*

William A. Kirby, Anbura, N.Y., U.S., 26th October, 1877, for 5 years.

Claim.—The combination of a stationary plate, interposed between the twister and cutter.

No. 8048. Improvements on Corset Skirt Supporters.*(Perfectionnements aux trosses-jupons.)*

Levi S. Weed, New Haven, Ct., U.S., 26th October, 1877, for 5 years.

Claim.—1st. The combination, in a skirt supporter, of a corset or bustle, of the vertical stays, the skirt supporting springs and the auxiliary pockets that enclose the lower ends of the stays and springs; 2nd. The combination, with the pockets and stays, of a corset or bustle, said pockets having exit openings, of the skirt supporting springs and auxiliary pockets which enclose the lower ends of the stays and springs, and prevent the tearing of the exit openings of the stay pockets.

No. 8049. Apparatus for Lighting and Extinguishing Gas Lamps by Electricity.*(Appareil pour allumer et éteindre les lampes à gaz par l'électricité.)*

Saint George L. Fox, London Eng., 31st October, 1877, for 5 years.

Claim.—1st. The combination with the gas or stop cock of each lamp, a permanent magnet *a* made to turn on an axis or pivot, by means of an elastic current, so as to open or close the cock; 2nd. In combination with the burner *a* and plug *e*, of the cock, the pivoted permanent magnet *a* and the induction coil *l*, with its primary and secondary coils or wires; 3rd. In combination with the pivoted magnet *a*, induction coil *l*, and plug *e*, the hollow frame *b*, for conducting the gas from the gas pipe, to the cock; 4th. The projections *p p* on the magnet *a*, in combination with the pin *l* or equivalent on the plug *e*; 5th. The tapered plug *e* supported by the pin or pivot *m*, and with or without the groove *n*; 6th. The mode or manner of igniting gas lamps by setting up a powerful current, by means of a condenser of very large surface, through wires connected with such lamps, and then causing such current to cease abruptly, so that a secondary discharge takes place at each burner and the gas is thereby ignited.

No. 8050. Improvement in Adjustable Seats.*(Perfectionnement dans les pliants.)*

Bickford N. Heinenway, Rockland, Me., U.S., 27th October, 1877, (Extension of Patent No. 1728), for 5 years.

No. 8051. Improvement in School Desks.*(Perfectionnement dans les pupitres d'écoles.)*

Bickford N. Heinenway, Rockland, Me., U.S., 27th October, 1877, (Extension of Patent No. 1730), for 5 years.

No. 8052. Improvements on Cracker Machines.*(Perfectionnements aux machines à biscuits.)*

Augustus Ruger, Buffalo, N.Y., U.S., (co-inventor with, and Assignee of, Isaac H. Shaver), 31st October, 1877, for 5 years.

Claim.—1st. In a cracker and lozenge machine, the series of punches D D, and operating in connection with the punch plate *g* having the punch openings *h* therein; 2nd. The combination of the series of hollow punches D D and the solid clearers *a a* working therein; 3rd. The slide E operated by suitable devices, and in combination with the punches D D and punch plates *g h*; 4th. In a cracker machine, the combination of the post *c*, arm *d*, pivoted thereto, and also to the plate *b*, the trip pawl *f*, the clearers *a a* and punches D D; 5th. The combination with the sliding table E and the cutters D D, the raising and dropping bars M M, the pivoted cams P P and the rack arms Q Q, for raising and dropping the sliding table; 6th. The cross apron R, in combination with the scrap apron O, and operating simultaneously therewith.

No. 8053. Improvements on Smoothing and Glossing Fabrics.*(Perfectionnement dans le repassage des tissus.)*

John F. Frese, Baltimore, Md., U.S., 2nd November, 1877, for 5 years.

Claim.—1st. The metal faced board B, adjustably applied to standards A; 2nd. The method of smoothing fabrics, by stretching them while damp over a smooth metallic surface, and drying them under tension.