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CONTENTS.

INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 23,738. Commutator Connection for Dynamo-Electric Machine. (*Communication de Commutateur pour Machines Dynamo-Electriques.*)

Charles Batchelor, New York, N.Y., U.S., 5th April, 1886; 5 years.

Claim.—1st. In a dynamo-electric machine, the combination, with the commutator bars, of the radial strips extending therefrom, and the cups for the armature wires, each having a flange or flanges secured to the backs of said radial strips, substantially as set forth. 2nd. In a dynamo-electric machine, the combination, with the commutator bars, of the radial strips extending therefrom, provided with projecting lips at their outer ends, and the cups for the armature wires secured to the backs of said radial strips under said lips, substantially as set forth. 3rd. In a dynamo-electric machine, the combination, with the commutator bars, of the radial strips extending therefrom, provided with projecting lips at their outer ends, the cups for the armature wires having flanges or plates secured to the backs of said radial strips beneath said lips, substantially as set forth. 4th. In a dynamo-electric machine, the cups in which the armature wires are soldered, having their edges provided with tongues bent down upon said wires, substantially as set forth.

No. 23,739. Truck for Centre Rail Elevated Railway. (*Châssis pour Char de Chemin de Fer Aérien à Rail au Centre.*)

Francis A. Bartholomew, Bloomfield, N.J. U.S., 5th April, 1886; 5 years.

Claim.—1st. A truck-frame supporting the car, wholly above the railway structure, and carrying wheels of varied heights of bearings, said truck frame being centrally pivoted, so that all the wheels thereon may act in concert. 2nd. A truck-frame provided with upward projecting brackets carrying in the centre line lengthwise of the truck, two main or sustaining wheels, and provided also with downward projecting brackets carrying on axles in the center-line cross wise of the truck, two auxiliary or balancing side-wheels, said truck frame being attached to the car by vertical swivel or pivotal connection, located centrally between the said four wheels. 3rd. A truck-frame provided with two main or sustaining wheels, to run in line with each other upon the elevated center-rail, and two lateral auxiliary or balancing wheels to run parallel with each other upon the lower side-rails, and provided also with a centrally located swivel or pivot, in combination with a car movable upon the said pivot, and a spring interposed in the said pivotal connection, between the said car and truck frame. 4th. A truck provided with two sustaining wheels, two balancing-wheels and a central pivot, all arranged as before stated, in combination with a car bottom hung below the centres of the sustaining wheels by a bridge-bracket swiveled upon the said pivot, with or without a spring interposed in the pivotal connection between the said bridge-bracket and truck. 5th. A truck frame of two similar parts A and A_1, bolted together in the middle by means of flanges N, around a central pivot, for attachment to the car, and united at the ends by stay-rods *a*, leaving end openings with sustaining-wheels C mounted therein, between upward projecting brackets D, said truck frame having also lateral extensions a^1 with rubbing-pieces a^2, and downward projecting brackets E carrying balancing wheels F, in combination with tie-bars *d*, connecting the fore and aft brackets D at each side of the truck, and cross-braces *e* secured to the said tie bars *a* and secured with their end flanges *f*, also to the said lateral extensions a^1, substantially as shown and described. 6th. A truck provided with two sustaining-wheels, two balancing wheels and a central pivot, all arranged as and for the purpose before stated, in combination with a brake lever fulcrumed upon the said pivot, and connected to actuate brake-shoes or friction blocks against the faces of the said sustaining wheels.

No. 23,740. Saw Punching and Setting Machine. (*Machine à Etamper les Scies et leur donner la Voie.*)

Josiah Laybolt, Wakefield, Mass., U.S., 5th April, 1886; 5 years.

Claim.—1st. The combination, in a saw-setting device, of the arm A^1, having the bed B adapted to support the die-block or a set block, the lever C adapted to support the punch or set, and the operating lever D, all substantially as and for the purposes described. 2nd. The combination of the block $A1$, the set block B^1 having the surface shaped as described, and supported by the bed B, the set C^2 adapted to have an oscillating movement to and from the bed imparted to it, the jaw E and the lever e^5, and its contact-point G for regulating the extent or degree of the set governed or controlled by the thickness of the saw-blade, all substantially as and for the purposes described. 3rd. The combination of the lever C, adapted to support a set or punch, with the jaw E, the lever e^5 and the movable fulcrum G, substantially as described. 4th. The combination of the set-block B^1 and the oscillating saw-set C^2, with the jaw E pivoted as described, the lever e^5 and movable fulcrumed point G, all substantially as and for the purposes set forth. 5th. In a saw setting machine, the jaw E, pivoted as described, and having the two arms e e^1 with the lever e^5 operated as described, all substantially as and for the purposes set forth. 6th. The combination of the set block B^1 and the oscillating set C^2, with the jaw E, the lever e^5 and the adjusting screw or stud F, all substantially as and for the purposes described. 7th. The combination of the set block B^1 and the oscillating set C^2, the jaw E, lever e^5 and the adjustable fulcrum point or support G, all substantially as and for the purposes described. 8th. The combination of the set block B^1 and the oscillating set C^2, the jaw E, the lever e^5 and the stop *g*, all substantially as and for the purposes described. 9th. The combination of the lever C, having the inclined surface *c* and shoulder c^2, with the punch or set having the inclined surface as described, with its upper edge in contact with the shoulder c^2, all substantially as and for the purposes set forth. 10th. The combination of the lever C carrying the set or punch, with the operating lever D pivoted at D^1 all substantially as and for the purposes described. 11th. The combination of the support A^1, carrying the bed for the support of the set block, the lever C supporting the set, the jaw E, lever e^5 and the operating lever D, all substantially as and for the purposes described. 12th. In a saw setting machine, the set governing or regulating jaw E, the lever e^5 and the contacting point or surface G, in combination with the saw set C^2 supported as described, and mechanism for operating the same, whereby the jaw is caused, by the thickness of the saw blade, to adjust or regulate the degree or extent of the set of each tooth, all substantially as and for the purposes described.

No. 23,741. Shoe. (*Soulier.*)

Peter Kelly and Joseph Kelly, Hagersville, Ont., 5th April, 1886, 5 years.

Claim.—1st. As an improved article of manufacture, a seamless upper plough shoe having the vamp B and quarter C cut in the form shown at A, Fig. 1, in one entire piece, the vamp B being crimped on the line B^1, and the quarter bent on the line C^1, and united to the vamp on the inner wearing side of the boot, substantially as and for the purpose specified. 2nd. The combination or the ear shaped gauge D, strip and buckle D^1, and the vamp and quarter B C cut of one piece of leather, as shown, all arranged and constructed substantially as described.

No. 23,742. Mowing Machine. (*Faucheuse.*)

Richard A Leonard, Fitchburg, Mass., U. S., 5th April, 1886; 5 years.

Claim.—1st. In the herein described mowing machine, the com-