

valve, and a connection between the short arm of said lever and said tank, whereby a depression of said tank raises said valve, substantially as described. 5th. In an automatic weighing scale, a weighing tank, an inlet and an outlet pipe for said tank, valves for controlling said pipes, pivoted levers for operating said valves, each of said levers having a connection with said tank and with the fixed portion of the machine, and a loose joint in some portion of the mechanism which operates each valve, substantially as described.

No. 34,262. Grain Drill Attachment. (Disposition aux semoirs en ligne.)

William C. Lathrop, Milton Centre, Ohio, U. S., 6th May, 1890; 5 years.

Claim.—1st. The combination, with a drill tooth, of the attaching plate, having a slot or loop in its upper end, the roller frame hinged to said attaching plate and having an upwardly-directed slotted branch, and the arm or bar connecting the upper end of the attaching plate with the upper branch of the roller frame, substantially as specified. 2nd. The attaching plate, having the rearwardly-curved fenders *a*, and the lower similarly formed bearing plate *g*, in combination with the roller frame, adapted to be hinged to said attaching plate, substantially as specified. 3rd. The combination, with a drill tube, of a plate slotted for the attachment to the drill, carrying lug journals, fenders, and bearing plates at one end, and a rearward loop at its opposite end, of a roller-supporting frame provided with means for receiving said roller, an eye at its forward end, whereby it may be hinged to the attaching plate, and a slot at its rear upper end, and a connecting rod having a cross-head at its forward end to enter the upper loop of the attaching plate, and grooves and serrations at its opposite end, so as to be adjustably connected with the slot of the said frame, substantially as specified.

No. 34,263. Dumping Car. (Char à bascule.)

James W. Alfred, Wall, Penn., U. S., 6th May, 1890; 5 years.

Claim.—1st. In a dumping car, the combination of the beam *A*, the box *B* hinged to said beam, the tail board *C*, triangular frames *D* having their base secured to said tail board, and their apex pivoted to the sides, cords *E*, having one end secured to the upper corner of said frames, and the other to brackets projecting from the side of the beam *A*, and passing over pulleys on the side of the box, pulleys *e* secured to the sides, and the brackets *F* secured to said beam and holding one end of said cords, substantially as set forth. 2nd. In a dumping car, the combination of the box *B*, having the strap *B*¹, a tail board *C*, having a strap *C*¹ provided with a slot *c*, the rod *G* passing through the lower end of the strap *B*¹, and the slot *c* of the strap *C*¹, and having cranked ends *g*, *g*¹, and the notched bracket *g*², substantially as set forth.

No. 34,264. Railroad Brake. (Frein de chemin de fer.)

Eli Savage, Providence, R. I., U. S., 6th May, 1890; 5 years.

Claim.—1st. The combination, with the body of a railway car, of the rods 16 and the rods 23, the sleeve 19, the spring 21 and the hooks 28, and links 29, connected with the rods by a universal joint, as described. 2nd. A brake operating and coupling device for railroad cars, the same consisting in the rods 16 and 23, the sleeve 19 provided with the slot 20, spring 21 and pin 25, the hanger 18, sleeve 17 and hanger 24, the hooks 28 and links 29 secured to the rods by a flexible joint, as described. 3rd. The combination, in a railroad car brake operating device, with the body of the car, and the two longitudinally extending and coupled rods 16 and 23, of the beveled piston 15, the bevel gear 14, the shaft 13, the arm 12, rod 10, spring 11, and brake lever, as described. 4th. In a train of railway cars, the combination, with each car, of the two rods placed one on each side, each having capacity of longitudinal extension resisted by a spring, a gear secured to each rod, and mechanism intermediate between the gear and brake levers, the rods of each car being coupled to the rods of the adjoining cars by a coupling connected with the said longitudinal rods by a ball and socket connection, as described. 5th. The combination, with the brake operating mechanism, substantially as herein described, of the gears 30, 31, 33 and 34, and mechanism for operating the brakes on a train of cars, simultaneously through the above-mentioned gears and brake mechanism, as described.

No. 34,265. Boiler Cleaner. (Nettoyeur de chaudière.)

William T. Haney, Childersburg, Ala., U. S., 6th May, 1890; 5 years.

Claim.—1st. In a boiler cleaner, a brush having on its upper side a beveled or inclined surface, arranged to be acted on by the water as the brush is reciprocated whereby to force said brush against the surface of the boiler, substantially as set forth. 2nd. A boiler cleaner, consisting of the brush, having a block or body formed on its upper side with a beveled or inclined surface, and a handle connected with said brush, substantially as set forth.

No. 34,266. Bag Holder. (Accroche-sac.)

William I. Paterson, Luoknow, Ont., 7th May, 1890; 5 years.

Claim.—1st. In a bag holder, the combination of the base *A*, upright *B*, frame *C* pivoted thereon and carrying a hopper, and pins supporting the mouth of a bag distended, the pitman *D*¹ pivotally connected to said frame by a cross head, the crank *E* engaging said pitman, a ratchet wheel *E*² secured to said crank, the pawl *F* engaging in said ratchet and operated by a cord, and the front lever *G*

operating said pawl by the cord *g*, substantially as set forth. 2nd. In a bag holder, the combination of the upright *B*, frame *C* pivoted to said upright and carrying pins adapted to hold the mouth of a bag distended, pitman *D*¹ pivotally connected to said frame, crank *E* journaled to said upright and engaging said pitman, ratchet *E*² secured upon said crank, pawl *F* engaging said ratchet, and foot lever *G* operating said pawl by the cord *g*, substantially as set forth.

No. 34,267. Device for Supporting and Holding Head Gear. (Appareil pour supporter et attacher les coiffures.)

Drusillia M. Fuller, Brooklyn, N. Y., U. S., 7th May, 1890; 5 years.

Claim.—1st. In a device for supporting and holding head gear, a spring arm having upturned and inwardly bent extremities, and pads secured to the said extremities, substantially as and for the purpose specified. 2nd. In a device for supporting and holding head gear, the combination, with the pedestal, of clamping arms arranged at the sides of the same, substantially as described. 3rd. In a device for supporting and holding head gear, the combination, with the pedestal, of spring clamping arms arranged at the sides of the same, and pads carried by said arms, substantially as specified. 4th. In a device for supporting and holding head gear, the combination, with a pedestal comprising a shank and a disk, of spring arms secured to the shank, and a spring pad secured to each of said arms, substantially as shown and described. 5th. In a device for supporting and holding head gear, the combination, with a pedestal comprising a shank and attached disk, of arms adjustably attached to the shank of the pedestal, and pads carried by said arms, substantially as specified. 6th. In a device for supporting and holding head gear, the combination, with a pedestal comprising a shank and an attached disk, of spring arms curved inward in the direction of the shank between its lower end and the disk, and pads attached to the said curved arms, substantially as specified. 7th. In a device for supporting and holding head gear, the combination, with a spring provided with upturned and inwardly bent extremities and pads secured to the said extremities, of standards located at each side of the center of the spring, and provided with attached or integral clamping surfaces substantially as shown and described, the clamping surfaces of the standard being adapted for contact with the inner surface of the hat to be supported, and the pads of the spring with the brim of the said hat, as specified.

No. 34,268. Heating Apparatus. (Calorifère.)

Henry B. Flint, Bethel, Me., U. S., 7th May, 1890; 5 years.

Claim.—1st. In a heating apparatus, the combination of a drum, provided with an upper and lower funnel opening into the chimney, a pipe fitted to slide in the lower funnel and be projected into the chimney, and pivoted bars in said pipe, having head plates, adapted to be projected into the chimney, whereby the heated air in said chimney may be directed into said drum, substantially as described. 2nd. In a heating apparatus, the combination of a drum, provided with funnels opening into the chimney, a sliding pipe in one funnel adapted to be projected into the chimney and provided with a mouth, pivoted bars in said pipe provided with arms working in slots in said bars, and a rotating rod in said pipe having arms working in slots in said bars, whereby they may be moved to project their heads laterally into said chimney, substantially as and for the purpose set forth. 3rd. In a heating apparatus, the combination of a drum, provided with funnels opening into a chimney, a pipe fitted to slide in one funnel and be projected into said chimney, a mouth in said pipe, two bars pivoted within the pipe and provided with head plates adapted to be projected laterally through said mouth, a rotating rod in said pipe, and a bar on said rod provided with arms working in said pivoted bars, whereby they may be actuated as said rod is revolved, substantially as described. 4th. In a heating apparatus, the combination of the drum *D*, provided with the funnels *E*, *F*, the pipe *H*, fitted to slide in the funnel *E*, and provided with the mouth *d*, the bars *p*, pivoted in said pipe and provided with heads *r*, and means, substantially as described, for actuating said bars to project their heads through mouth of said pipe. 5th. In a heating apparatus, the combination of the drum *D*, provided with the funnels *E*, *G*, the pipe *H*, fitted to slide in the funnel *E* and having the mouth *d* and plate *b*, the bars *p*, pivoted in said pipe and provided with the heads *r*, the rod *f*, fitted to rotate in said pipe, and projecting through the funnel slot *s*, and the bar *l* on said rod provided with the arms *m*, working in slots *r* in said pivoted bars, all being arranged to operate substantially as described. 6th. In a device of the character described, a tube fitted to slide in a drum funnel and be projected into a chimney, said tube being provided with pivoted bars having head plates adapted to be projected through the mouth of the tube, and block the chimney, whereby the heated air arising therein may be directed into said drum, substantially as described.

No. 34,269. Wrench. (Clé à écrou.)

John T. Hawkins, Taunton, Mass., U. S., 7th May, 1890; 5 years.

Claim.—1st. A pipe wrench, having one serrated jaw, and one unserrated or smooth jaw, forming an acute angle with each other, and provided with an adjustable stop for the pipe operated upon and practically in line with the angle of said smooth jaw, substantially as for the purposes set forth. 2nd. In a pipe wrench, constructed of a serrated or toothed jaw, and a smooth or unserrated jaw, forming an acute angle with each other, the combination of a stop for the pipe sliding upon the smooth jaw, and an adjusting screw for regulating the position of said sliding stop, substantially as set forth. 3rd. In a pipe wrench, constructed of a serrated or toothed jaw, and a smooth or unserrated jaw, forming an acute angle with each other, in combination with a stop sliding upon the smooth jaw, and having formed thereon tooth edges, an adjusting screw for regulating the position of said sliding stop, substantially as set forth.