

lower end, as set forth. 4th. The combination, with the kiln, and the inclosing casing, forming a condensing chamber, of the flues connecting with the condensing chamber at their upper ends with the atmosphere at their lower ends, and the kiln at intermediate points, whereby communication is established between the kiln inclosing casing at one end, and the combustion chamber and outside air at the other, substantially as specified. 5th. The combination, with the kiln and the casing, forming the condensing chamber, of the connecting flues communicating with the condensing chamber at their upper ends, and having branch pipes *c'* communicating with the combustion chamber of the kiln, and the projection *c''* opening into the outside air, the branch pipes and projections being provided with dampers for controlling the area of the openings of the same, substantially as specified. 6th. The combination, with the kiln and the casing, forming the condensing chamber, formed by the walls of the kiln and the surrounding casing, and having separate apartments or chambers arranged horizontally around the kiln, and having communication at alternate ends to make a circuitous path through them, of connecting flues provided with dampers and gates, substantially as and for the purposes specified.

No. 34,291. Slate Cleaner for Cleaning the Slate Pencil Marks off Slates.

(*Nettoyeur d'ardoise.*)

Samuel J. Laughlin, Guelph, Ont., 9th May, 1890; 5 years.

Claim.—The combination of a tube A, made of any kind of material, and having a porous pad B at one of its ends, and at the other end there is provided a stopper, composed of different parts, C is a part of said stopper, that is hollowed out to receive the other part E which is cemented into the part C, and having a facing of felt D cemented into the part C, and in tube A there is provided a central hollow part F, that forms a reservoir for the purpose of holding water or other liquids, all being arranged and designed to effectually erase the pencil marks off slates, substantially as and for the purpose hereinbefore set forth.

No. 34,292. Faucet. (*Robinet.*)

Elijah W. Scoville, Manlius, N.Y., U.S., 9th May, 1890; 5 years.

Claim.—The within-described faucet, consisting of the barrel A, having its liquid channel *a* terminating at the under side of said barrel, and provided therewith a segmental valve seat *b*, having its curvature in the direction of the length of the barrel, the lever *c* pivoted to opposite sides of the barrel A, and axially at right angles thereto, and for the valve *c* carried on the lower end of the lever and provided with the downwardly extended duct *d*, and the spring *e* pressing the lever in one direction to normally hold the valve *c* with its duct *d*, out of communication with the channel *a*, substantially as described and shown.

No. 34,293. Oiling of Vehicle Axles.

(*Graissage des essieux de voitures.*)

Willis Jones, Buffalo, N.Y., U.S., 9th May, 1890; 5 years.

Claim.—1st. In a vehicle axle, the slanting oil channel *h* and outlet *h'*, the outer end of channel *h* having a plug *p* set therein, and a vertical oil passage *a* leading into said channel made in the top of the screw threaded end of the spindle B, and covered by the cap *c*, all substantially as herein specified. 2nd. In a vehicle axle, the top oil channel *k*, made at a gradual slant from rear to front end, and terminating in a vertical oil passage *h'* leading to an oil channel *h* in the axle B, adapted to giving an automatic flow of oil as the hub revolves, substantially as specified. 3rd. In a vehicle axle, the combination of the oil channel *h'*, plug *p*, oil receiving passage *a* in top of screw thread, the upper channel *k* with connecting oil passage *h'* leading to channel *h*, axle cap C and hub box F, all arranged and operating conjointly, substantially as and for the purpose specified.

No. 34,294. Postal Scale. (*Balances postales.*)

Julius C. Bittschofsky, Cleveland, Ohio, U.S., 9th May, 1890; 5 years.

Claim.—1st. In postal scales, a scale card, supports for the card on the scale beam and extending laterally therefrom to one side of the path of the poise, with a combined pointer and support attached to the poise, and bent to lie across the face of the card and down over the back of the same, all said parts in combination, substantially as set forth. 2nd. The combination, with a scale beam, of a movable on said beam, a support on said beam for said card, a poise extending over the graduated face of said card, substantially as set forth.

No. 34,295. Rein Ring for Harness, etc.

(*Crochet de harnais, etc.*)

Joseph Sanders, Belle Creek, P.E.I., 9th May, 1890; 5 years.

Claim.—1st. The opening in the ring or terret, to admit of the rein being placed in or taken out of the same without running it through from the end. This opening may be of any convenient width. 2nd. That formation of the prongs of the rein ring, which prevents the escape of the rein except as desired.

No. 34,296. Dumping Cart. (*Tombereau.*)

Francis M. Gibson, Good Hope, Ohio, U.S., 9th May, 1890; 5 years.

Claim.—1st. A dumping cart, having hinged to its body a hook-like device adapted to fit removably over the bolster, substantially as and for the purposes described. 2nd. The combination, with the bolster of a wagon, of a body having hinged to its under side a pair of hook-shaped straps adapted to fit removably over the bolster,

substantially as and for the purposes described. 3rd. The combination, with a wagon body, of the hook-shaped straps hinged thereto, and one or more bars uniting said straps, substantially as and for the purposes described. 4th. The combination, with a wagon body, provided with eyes near its edges, of hook-shaped straps, having pintles to engage with said eyes, and a bar uniting said straps, substantially as and for the purposes described. 5th. The combination, with the bolster B, of the body D, having the eyes E, the straps F, having pintles *f* engaging with the eyes, and the bars G *G'*, secured to the straps and lying on each side of the bolster, substantially as described.

No. 34,297. Composition of Matter or Medicine for the Cure of Catarrh.

(*Composition de matières ou médecine pour la guérison du catarrhe.*)

Robert J. K. Gore, Goderich, Ont., 9th May, 1890; 5 years.

Claim.—A compound of spirits of camphor, spirits of turpentine, chloroform, oil of mustard, and tincture of capsicum, substantially in the proportions and for the purposes set forth.

No. 34,298. Coal Sifter. (*Crible à charbon.*)

John H. Fredericks, Look Haven, Penn., U.S., 9th May, 1890; 5 years.

Claim.—A sifter, whose sides are composed of a single perforated annular band of sheet metal combined with a perforated sheet metal disk slitted and overlapped, so as to form a circular convex bottom, the disk and annular band being joined by infolding together at X, substantially as set forth.

No. 34,299. Horse Collar. (*Collier de cheval.*)

Thomas A. Jackson, Mount Pleasant, Ont., 9th May, 1890; 5 years.

Claim.—1st. The combination of the padded plates A A with the pads F F, connected by the yoke B, which passes through the sockets *c c*, forming the shape of the lower part of the collar, and the neck strap G, which connects the upper parts of the padded plates A A, forming the upper part of the collar. 2nd. The combination of the extra staples D D, for attaching the traces, and the set screws E E in the sockets *c c*, to raise or lower the draught to suit the height of the horse, and H H, the neck yoke rings in the yoke B, for attaching the neck yoke straps to the yoke B, all substantially as and for the purposes hereinbefore set forth.

No. 34,300. Hot Water Heater.

(*Fournaise calorifère à eau.*)

Eugène S. Manny, Montreal, Que., 9th May, 1890; 5 years.

Résumé.—1o. Dans une fournaise à eau chaude, les divisions K et L, la première étant plus basse et l'autre plus élevée, tel que décrit. 2o. Dans une fournaise à eau chaude, le cercle collecteur H entourant la partie inférieure du passage des produits de la combustion C, D, E, F, G, tel que ci-dessus décrit et pour les fins indiquées.

No. 34,301. Vehicle Wheel. (*Roue de voiture.*)

The Harris Metal Wheel Co., (assignees of Frederick Newhouse), Auburndale, Ohio, U.S., 9th May, 1890; 5 years.

Claim.—1st. In a wheel, a hub section, having lugs to receive the loop of a wire, bent to form two spokes of spoke passages beside said lugs, and an aperture in said hub section connecting said spoke passages, substantially as described. 2nd. In a wheel, hub sections sleeved upon a hub or box, having lugs to receive the loops of wires bent to form two spokes of spoke passages beside said lugs, an aperture connecting said spoke passages, and the flange G, having spoke passages I, substantially as described. 3rd. In a wheel, hub sections sleeved upon a hub or box, having lugs *F* cut away, portions M, spoke passages I and J, apertures H and collars N, substantially as described.

No. 34,302. Pipe Joint. (*Joint de tuyau.*)

Frank A. Lane and James A. Colby, Manchester, Eng., 9th May, 1890; 5 years.

Claim.—1st. The herein described ferrule, tapering toward one end, and provided at the other end with a laterally extending flange, adapted to form a seat for the calking, and convex and tapering on its end face, and thereby adapted to center the ferrule within the bell, in combination with the bell, having a tapering or rounded seat adapted to co-operate with said ferrule to bring both parts in line, substantially as set forth. 2nd. The herein described ferrule C, for pipe joints provided at one end with a convex or tapering end face, and having at the same end the laterally extending flange or shoulder *c*, adapted to form a seat for the calking, said ferrule being tapered or flared on its inner surface toward the end opposite said flange, whereby obstruction of the pipe in which it may be inserted is avoided, substantially as set forth.

No. 34,303. Paper Rack and Holder.

(*Porte-papier.*)

Samuel Mirfield and Frederick A. Clarry, Toronto, Ont., 9th May, 1890; 5 years.

Claim.—1st. A paper holder, composed of meridional wires A, A, having the ends converging and secured to disks B, B, at the poles, a post C, passing through the disks, and a base D, supporting the post erect, as set forth. 2nd. A paper holder, composed of meridional wires A, A, converging at the poles and secured to a back E, as set forth.