

No. 19,751. Car-Coupling. (*Accouplage de Chars.*)

Donald Fraser and Vietts L. Rice, Minneapolis, Minn., U.S., 7th July, 1884; 5 years.

Claim.—1st. In a car-coupling, a cam disk or plate C pivoted eccentrically in the draw-head, as set forth, provided with projections I and a, and stop M, in combination with the slotted pin F, as set forth. 2nd. In a car-coupling, the draw-head provided with an open slot in which is pivoted the cam-plate C as described, said cam-plate being provided with a stop M which impinges against the draw bar at the rear end of said slot, as and for the purpose set forth.

No. 19,752. Reel for Wire. (*Dévidoir à Fil de fer.*)

Lyman P. Johnson, Seneca Castle, N. Y., U. S., 7th July, 1884; 5 years.

Claim.—1st. The combination, in a reel for holding and distributing wire in the construction of wire fences, of the shaft or axle mounted upon wheels, the flanged wheels provided with internal cogs, the intermeshing pinions, the frust m-shaped sleeves provided with longitudinal feathers or ribs, and the reel adapted to be secured on the said shaft by means of the sleeves, the whole adapted to operate substantially in the manner specified. 2nd. The combination, with the shaft, the loose sleeves mounted thereon and the gearing for actuating the reel, of the hinged frame, whereby the reel may be attached and detached, substantially as and for the purpose specified.

No. 19,753. Lawn Mower. (*Faucheuse.*)

Charles W. Cheney, Athol, Mass., U.S., 7th July, 1884; 5 years.

Claim.—1st. The combination of the frame of the machine, the rotary axle carrying the drive wheels, a cutter supporting bar secured across the front of the frame, a cam wheel secured on the axle, a horizontally-oscillating lever fulcrumed on the frame in rear of the cam wheel, longitudinally oscillating levers fulcrumed at the sides of the frame and connected to the main oscillating lever, as described, and the cutter bars connected with the ends of the longitudinal levers, as set forth. 2nd. The combination of the frame of the machine, the cutter supporting bar secured to the front end thereof, the supporting roller journalled in rear of said bar, the rotary axle having the cam wheel, a lever fulcrumed on the frame and oscillated by the cam, the longitudinal side levers pivoted on the frame at the sides, links connecting said levers with opposite ends of the main oscillating lever, and the cutter-bars arranged one above the other and connected to the lower ends of the longitudinal levers, as set forth. 3rd. In a lawn mower, the combination of the independent series of knives or cutters disposed one series directly above the other, and reciprocated in opposite directions, the teeth being formed with one straight edge at about a right angle to the cutter bar, as set forth.

No. 19,754. Curtain Fixture.(*Suspension de Rideau.*)

Alvah Sweetland, Syracuse, N. Y., U.S., 7th July, 1884; 5 years.

Claim.—1st. The combination of a roller spindle having a groove and an adjacent flat surface, and a bolt carried by a roller for locking the same by contact with the groove, and the bite of the edge of the groove upon the locking bolt, substantially as and for the purposes set forth. 2nd. The combination of the spindle provided with the groove a and adjacent flat surface c and the collar E, and bolts e, substantially as shown and described. 3rd. The combination of the spring roller a, spindle B, collar E, bolts e and ferrule i, the spindle and collar being constructed and operating to bite the bolt with the edge of the groove, constructed and operated together, substantially as described for the purpose specified. 4th. The head bracket C constructed with a base screw F, stem y and studs o provided with a shoulder r, substantially as shown and described. 5th. A roller spindle constructed with hub z having therein a groove a and adjacent flat surface c, a shoulder s and a semi-spherical head D having a hole n through it, by which the spindle is connected to the bracket, and prevented from revolving, substantially as shown and described. 6th. The tail bracket H constructed with base screw F, stem y and studs o, e, substantially as shown and described. 7th. A curtain fixture consisting of the roller a, spindle B, collar E, bolt seats d and bolts e, engaging with the groove a and flat surface c of the spindle, the spindle head D, bracket C, tail piece N and bracket H, constructed and operated together, substantially as and for the purposes specified. 8th. The spindle B provided with a head D, in combination with the bracket C provided with the studs o and shoulder r, substantially as and for the purposes set forth. 9th. The perforated semi-spherical spindle head D, in combination with a bracket having a stud o, constructed substantially as described. 10th. In a curtain roller, the collar D constructed with bolt seats d with parallel sides and each being on a line tangential to the spindle hole, and through which the bolts project diagonally into the spindle hole, so that the edge of the groove a in the spindle bites against the side of the bolt to lock the roller, in combination with the locking bolts e, reciprocating in the bolt seats, substantially as and for the purposes specified. 11th. In a curtain roller, the collar D constructed with bolt seats d, each being on a line tangential to the spindle hole therein, in combination with locking bolts e, reciprocating in the bolt seats, substantially as and for the purposes specified.

No. 19,755. Railroad Signalling Apparatus.(*Appareil à Signal de Chemin de Fer.*)

Louis C. Huber, Huber, Ky., U. S., 8th July, 1884; 5 years.

Claim.—The combination, with the caboose of a railway train, of the cylinder h, the eccentric rod f connected to one of its axles and joined to the piston-rod, the drum l connected to the cylinder h by a pipe k having check valve m, and cylinder h being provided with a supply or inlet pipe i having a check valve j, and the tube u leading from the drum l to the whistle d, said tube being provided with an in-

termediate cock o, operated to open and close by a lever q to produce the signal, substantially as specified.

No. 19,756. Saw Handle. (*Fût de Scie.*)

Perry Fraizer, Mount Summit, Ind., U. S., 8th July, 1884; 5 years.

Claim.—1st. In a saw handle, a P-shaped loop-bolt formed in a single piece adapted to encircle or clasp the end of the saw-plate, and means for securing the same to said saw-plate, whereby the handle is set at right angles with the cut of the saw instead of in a line therewith, substantially as set forth. 2nd. In a saw handle, the combination of the usual handle, the washer upon the lower end of said handle, the T-shaped loop-bolt formed in one piece with the arms at substantially right angles with the shank, and said shank extending up through said washer into said handle where it engages with a suitable fastening therein, substantially as set forth. 3rd. The combination of the saw handle A, the washer B upon the lower end of said handle having slots in its lower face, and a P-shaped loop-bolt C formed in one piece, the shaft of which is adapted to enter a longitudinal hole in the lower end of the handle, and means for securing the bolt in said hole, whereby said handle may be securely clamped to said saw, substantially as set forth. 4th. The combination, with the saw handle A, of a conical washer B at the lower end of said handle, said washer being slotted upon its lower face, and a T-shaped loop-bolt made in one piece and having a screw-threaded shank adapted to engage with a nut arranged in a longitudinal perforation in the end of said handle, substantially as described and for the purposes specified.

No. 19,757. Apparatus for Transmitting Differential Rotary Motion.(*Appareil pour Transmettre le Mouvement Rotatoire Différentiel.*)

George F. Clemons, Springfield, Mass., U. S., 8th July, 1884; 5 years.

Claim.—1st. A new mechanical combination and movement, for transmitting differential rotary motion of machines, consisting of the hereinbefore shown and described, stud-pins and disk-holes, or their shown and described mechanical equivalents, the stud pins and cams or eccentrics, arranged and operating in combination with rotative bodies of mechanisms, substantially as hereinbefore shown and described. 2nd. The combination of the shaft A having therein the eccentric B, the fixed gear D, the gear C carrying the stud-pins G, G, the resistance wheel E having disk-holes F, F, in which said stud-pins work to connect and transmit rotary motion from the gear C to the wheel E, substantially as shown and described and for the purposes set forth. 3rd. The combination consisting of the shaft A, eccentric B, the gear C with arms L, L, carrying the stud-pins G, G, the fixed gear D with arms k, k, the resistance wheel E having a chain wheel M and arms O, O, carrying the cams or eccentrics H, H, the frame-piece connected to arms l, k by the cross-bars S, U, the suspending hook, the hand chain-wheel W, all substantially as hereinbefore shown and described and for the purposes set forth.

No. 19,758. Car Wheel and Axle.(*Roue et Essieu de Char.*)

Samuel J. Stevenson, Philadelphia, Pa., U. S., 8th July, 1884; 5 years.

Claim.—1st. An axle having lubricant ducts, in combination with wheels fitted independently on said axle, and formed with pockets which extend transversely on the inner faces of the hubs from end to end thereof, substantially as and for the purpose set forth. 2nd. A wheel having pockets which extend radially on the ends of the hub thereof, and collars connected with the axle fitted in recess in said ends, substantially as and for the purpose set forth. 3rd. An axle having a lubricant duct, a loose fitted wheel and collars connected with the axle fitted in recesses in the ends of the hub, said wheel having pockets which extend transversely on the inner face of the hub and pockets which extend radially on the ends of the hub and join said transversely extending pockets, substantially as and for the purpose set forth.

No. 19,759. Skate Sharpener.(*Rémouleur de Patin.*)

Xavier St. Pierre, Osceola, Nev., U. S., 8th July, 1884; 5 years.

Claim.—1st. The skate-sharpening file B having a stud d₁ and flat or rounded sides or edges, in combination with the holder A having end pieces b, b₁, one being apertured, substantially as and for the purpose set forth. 2nd. The file B formed with the stud d₁, in combination with the holder A having cheek pieces a, and lip b and end piece b₁ having aperture d, substantially as and for the purpose set forth. 3rd. The holder A having guiding or cheek pieces a, lip b and end plate b₁, in combination with the file B having flat or rounded edge or sides and formed with the stud a₁ at one end, substantially as and for the purposes set forth. 4th. In a skate-sharpening device, the holder A struck up of sheet metal, with the cheek pieces a, a, the end pieces b, b₁, one having an aperture d and with the end lapping lips c all in one piece, in combination with the file B having the stud d₁, substantially as and for the purpose set forth.

No. 19,760. Valve for Water Closets, &c.(*Valve pour Cabinets à Veau, &c.*)

William Scott, Malden, Mass., U.S., 8th July, 1884; 5 years.

Claim.—1st. The combination, with the outlet or discharge of a tank for water or other liquid, of a chambered valve which has openings or passages for the ingress and egress of the liquid of the tank and of air, and is otherwise constructed and arranged that, seated, said discharge is closed, and, raised, said discharge is opened, and from the then ingress of liquid, said valve is again seated, emptying its contents, substantially as described for the purpose specified. 2nd. The combination, with the seat H of the outlet or discharge B, of a