

No. 22,359. Roller Grinding Mill.*(Moulin à Cylindre)*

William H. Wakeford, Baltimore, Md., U.S., 2nd September, 1885; 5 years.

Claim.—1st. In a roller grinding mill, the breaks of which are arranged in one and the same horizontal plane, the combination, substantially as before set forth, with the adjustable roller of one break and the adjustable roller of the next succeeding break of the chain wheels, and drive-chains for transmitting the motion of one adjustable roller to the other adjustable roller. 2nd. The combination, substantially as before set forth, of an adjustable box, and adjustable knee and a toggle-joint for connecting said box to said knee. 3rd. The combination, substantially as before set forth, of an adjustable box, an adjustable knee, a toggle-joint for connecting said box to said knee, and a screw for holding and adjusting the knee. 4th. The combination, substantially as before set forth, of the adjustable boxes, of an adjustable roller, an adjustable knee for each box toggle-joints for connecting the boxes to the knees, a rock-shaft provided with arms and links for connecting the arms of the rock-shaft with the toggle-joints.

No. 22,360. Traction Wheels.*(Roues du Traction.)*

William M. Biendorf, Litchfield, Ill., U.S., 2nd September, 1885; 5 years.

Claim.—1st. A traction wheel having pins projected at intervals through and movable beyond the rim, a ring and links connecting said pins and ring, and having its hub extended at A inward and adapted to serve as a bearing for the eccentric, and the eccentric journaled on the extension A of the hub, and provided with a gear ring or wheel suited to be engaged by a proper gear on the framing, substantially as set forth. 2nd. The combination with the wheel, the eccentric secured on the framing, the ring E and pins F, of the wheel G secured to the spokes midway the hub and jelly and provided with slots *g* and the links *f* passed through slots *g* and pivotally secured at their opposite ends to the pins and ring E, substantially as and for the purposes specified.

No. 22,361. Toboggan. (Trainee Sauvage.)

Richard Gould, St. John, Que., 2nd September, 1885; 5 years.

Claim.—1st. A toboggan made up of two parts or sections adjustably connected together in such manner that the direction of travel may be changed by moving one of said sections, substantially as described. 2nd. A toboggan made up of a main body forming the seat portion and a movable front, substantially as and for the purpose specified. 3rd. In a toboggan, the combination, with main body A and movable front B, of plates C and D having curved meeting surfaces, tongue E and plate F, substantially as and for the purpose described. 4th. The combination with the main body A and movable front B, of the plug G adapted to hold same firmly together, substantially as described.

No. 22,362. Saws. (Scie.)

Charles T. Shoemaker, Philadelphia, Pa., U.S., 2nd September, 1885; 5 years.

Claim.—1st. The within-described improvement in the mode of manufacturing saw blades, said improvement consisting in first rendering the blade true by grinding, then tempering the blade and finally grinding and polishing the same, as described, whereby the blade at and near the cutting edge retains the surface due to the tempering operation, as set forth. 2nd. A saw blade having at and near the cutting edge a tempered surface and on the other portions of the blade a ground surface, as set forth.

No. 22,363. Plaiting Apparatus.*(Appareil à Plisser.)*

Ollie T. Raney, Melissa, Texas, U.S., 2nd September, 1885; 5 years.

Claim.—1st. The combination in a plaiting apparatus of a fixed transverse bar, a second transverse bar adapted to be adjusted relatively thereto and means for securing the said adjustment each of said bars being provided with a transverse metallic strip bent to form inclined ribs, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, in a plaiting apparatus, of metallic strips bent to present inclined ribs and spring clip devices adapted to engage said ribs to hold the material when folded thereon, substantially as and for the purpose hereinbefore set forth. 3rd. The combination in a plaiting apparatus, of an adjustable folding frame having two parallel bars provided with metallic ribs to be formed by bending said metallic strips, substantially as and for the purpose hereinbefore set forth. 4th. The combination in a plaiting apparatus of the bars A having holes *a* therein, the fixed bars B, the adjustable bar B¹ provided with pins *b*, the hinged braces *c* and the metallic strips C and C¹, substantially as and for the purpose hereinbefore set forth. 3rd. The combination in a plaiting apparatus, of an adjustable folding frame provided with the metallic strips C and C¹, bent to present ribs and clips E, consisting of jaws *i* centrally pivoted together and provided with the spring *h*, substantially as and for the purpose hereinbefore set forth.

No. 22,364. Brick Press. (Machine à Briquer.)

Hiram Lupher, Tullahoma, Tenn., U.S., 2nd September, 1885; 5 years.

Claim.—1st. The combination of the feed-slides having pockets and the alternately acting plungers and rams, said slides being operated by levers connected by arms to rockers and acted upon by arms connected to the pendulum or working-lever, substantially as and for the purpose described. 2nd. The combination of the feed-slides having pockets, the boxes having passages and the alternately acting plungers and rams, said slides being operated by levers con-

nected by arms to rockers and acted upon by arms connected to the pendulum lever, substantially as and for the purpose described. 3rd. The combination of the rods *v*, pivoted to the pendulum lever, push-studs *t* attached to said rods, guide *u* for the push-studs, feed levers *p*, guide *s* for the feed-levers, and feeders *l* with the duplex moulds *a*, rams *g* and ejectors *c*, substantially as described. 4th. The combination of the pendulum-levers *j*, rock-beam *h*, duplex rams *g*, moulds *a* and plungers *c*, and the rock-lever *d*, substantially as described. 5th. The combination of the pendulum lever *j*, rock-beam *h*, duplex rams *g*, moulds *a*, plungers *c*, connecting rods *v*, push-studs *t*, feed-levers *p*, feed-slides *l* and feed-boxes *k*, said levers *p* and push-studs having guides *s* and *u*, substantially as described.

No. 22,365. Axle Lubricator.*(Graisseur d'Essieu.)*

Lewis F. Morison and François X. Bertrand, St. Hyacinthe, Que., 2nd September, 1885; 5 years.

Claim.—1st. The rollers L and L², having grooves or elevators M and M², respectively in their ends, or their equivalents, for the purposes set forth. 2nd. And in the way and manner of cutting such grooves or elevators from the circumference to the centre of above or below the centre of such rollers L and L² respectively, to increase or decrease the supply to the shaft or axle of the lubricating substance. 3rd. The combination of plate A with plate D, screw points C, axle or pivot B, arms H, axle or pivot J, spring E, pin F, roller L, having grooves or elevators in each of its ends, with axle or pivot P, and the shaft or axle Q, or their equivalents, the whole constructed and arranged, substantially as and for the purposes set forth. 4th. The combination of plate A, with plate D², screw-point C², axle or pivot J², spring E², pin F², roller L², having grooves or elevators in each of its ends, with axle or pivot P², and the shaft or axle Q, or their equivalents, the whole constructed and arranged substantially as and for the purposes set forth. 5th. The combination of plate A, with plates D and D², axles or pivots B and B² respectively, arms H and H² respectively, axles or pivots J and J² respectively, springs E and E² respectively, pins F and F² respectively, rollers L and L² respectively, having grooves or elevators in each of their ends, with axles or pivots P and P² respectively, and the shaft or axle Q, or their equivalent, in lubricating box or reservoir T, the whole constructed and arranged, substantially as and for the purposes set forth.

No. 22,366. Thill Couplings.*(Armons de Limonières.)*

Thomas F. Van Luyen and Benjamin W. Folger, Kingston, Ont., 2nd September, 1885; 5 years.

Claim.—1st. The combination of the socket A, provided with clip B, rubber cushion C¹, thill iron E, having hollow trunnion F, bolt J, and pin K, as set forth. 2nd. The combination with the socket A, provided with clip B, and having a shoulder A¹, of the thill iron E having hollow trunnion F, bolt J, and pin K, whereby the head of the pin will be covered by the shoulder when the shafts are in a normal position, to prevent uncoupling, as set forth. 3rd. The combination with the socket A, having clip B, thill iron E, having hollow trunnion F, bolt J, and cushion C¹, and wedge D, to prevent rattling, as set forth.

No. 22,367. Rheumatic Belt.*(Ceinture Rhumatismale.)*

John O'Flaherty, Lachine, Que., 2nd September, 1885; 5 years.

Claim.—A compound of pulverized sulphur, and hierpiera, substantially in the proportions and for the purposes set forth as above mentioned.

No. 22,368. Roller Skates. (Patins à Roulettes.)

Frederick Mallory, Brockville, Ont., 2nd September, 1885; 5 years.

Claim.—The combination, with the hinged truck sections D, E, of the wire springs G, H, coiled reversely around the pintle F, as set forth for the purpose described.

No. 22,369. Calf Feeders. (Eleveur de Veaux.)

Josiah B. Small, Somerville, Mass., U.S., 2nd September, 1885; 5 years.

Claim.—1st. In a calf-feeding device, the vessel A, A², provided with flanges *a*, having shoulders *a*¹, at the tops thereof, combined with guideways or blocks *a*², on the tops of which the shoulders rest, to retain the vessel in position, substantially as set forth. 2nd. In a calf-feeding device, the vessel A, A², having the nozzle *d*, combined with the nipple and tapering plug therein, to hold the nipper in the nozzle by pressure between the nozzle and plug, substantially as described. 3rd. In a calf-feeding device, the vessel A², having the nozzle and the nipple, combined with a plug provided with a valve to check or prevent the return of the liquid from the nipple into the vessel, and yet permit the liquid to enter the nipple by gravity, substantially as set forth. 4th. The liquid-holding vessel A, provided with the side flanges *a*¹, and the stops *s*, and the nipple B, attached to the said vessel, and the nipple-holding plug, combined with the guide-piece *a*², to receive and hold the flanges *a*¹, substantially as described. 5th. In a calf-feeding device, the combination with a vessel, having a nipple or teat, of a valve *b*, in said nipple or teat at its duct, substantially as and for the purpose set forth. 6th. In a calf-feeding device, the combination with a vessel having a nipple or teat, provided with a valve *b*, at its duct, of a plug *c*, located in said nipple or teat, and the valve *c*³, substantially as set forth.

No. 22,370. Railroad Ditching Machine.*(Machine à Fossayer les Railroutes.)*

Alonzo H. McGrew, Hurley D.T., U.S., 2nd September, 1885; 5 years.