ally and centrally secured to such girt and supporting a gate sus-pended from such track, with means, substantially as described, for alternately tilting such track in opposite directions, substantially as and for the purposes set forth. 3rd. In combination with a gate supported by means of wheels running upon an over-haug track, which is centrally supported to the gate frame, a bracket F, forming the fulerum of a lever I, which is connected with one end of the track E, the cable J, bell-crank K, and bale N, carrying a crank M, the parts being constructed and operating substantially as and for the purposes described. 4th. In a gate constructed substantially as vertical position from a horizontal, when relieved from pressure, substan-tially as set forth. 5th. In combination with a gate, substantially as described, the means, as described, of adjusting the inclination or plane of the track E, substantially as set forth.

No. 22,598. Bottle Stopper.

(Bouchon de Bouteille.)

Tracy Coit, New York, (assignee of F. J. Duverall, Jersey City, N.J.,) U.S., 7th October, 1885; 5 years.

U.S., 7th October, 1885; 5 years. Claim.—1st. The bottle stopper composed of the stop or bowl, a post extending from one side of the stop and a tube from the opposite side thereof. a passage being formed through the tube connecting with an outlet adjacent to the said stop or bowl, substantially as set forth. Ind. The bottle stopper composed of the bowl or stop F, post G, tube H and passage I, in combination with the ring of the material D, substantially as set forth. 3rd. The bottle stopper composed of the bowl or stop F, post (4, tube H and passages I, W, substantially as set forth. 4th. The bottle stopper composed of the bow lor stop F, post G, tube H, passage I, and a ring or coating of rubber on the post, substantially as set forth. 5th. The bottle stopper, having the shoulder or shoulders x x, substantially as set forth. 6th. The bottle stopper constructed substantially as set forth. 6th. The bottle stopper constructed substantially as set forth.

No. 22,599. Lubricator. (Graisseur.)

The Peerless Oil Ejector Co., (assignee of Philip Leonard Schmitt), all of Quincy, Ill., U.S., 7th October, 1885; 5 years.

all of Quincy, fll., U.S., 7th October, 1886; 5 years. Claim.—lat. A lubricator consisting of a reservoir I, a steam sup-ply pipe connected with a condensing coil communicating with the reservoir, sight feed tubes on each side of the seservoir, equalising branch pipes D1, extending from the main supply pipe P to the caps of the sight feed tubes and the parts to be lubricated, substantially as desoribed. 2nd. In combination, the oil reservoir of the lubrica-tor cup, the steam supply pipe P, and its lateral branches DI, the sight feed tubes arranged upon each side of the reservoir condensing coil and the regulating valve m¹, placed in the said pipe A¹, above the junction of the branches D¹, with the pipe P, all substantially as described. 3rd. In combination with the reservoir of a lubricator cup, the pipe P and its branches D¹, the pipe A¹ extending upward from the junction of the pipes P and D, and terminating in a coil wound downward around the said pipe A¹, and communicating with the reservoir at the top thereof, substantially as described.

No. 22,600. Boxing Machine.

(Machine à Fabriquer les Bostes.)

Ezra B. Eddy (Assignce of G. H. Millen and A. Derouin) all of Hull, Que., 7th October, 1885; 5 years.

Larra 1. Loay (Assignee of G. H. Millen and A. Derouin) all of Hull, Que., 7th October, 1885; 5 years. Claim,—1st. The art of forming bevelled angular junctions of the sides and ends of boxes, having dovetailed tongue and groove fasten-ings, by means of saws and cutters arranged substantially as herein shown and described. 2nd. In a boxing machine, the saws H1 and cutters J and J1, arranged to form the dovetailed tongue m1 on one end of the stock, and the saw H and cutters I and I1 arranged to form the dove-tailed groove m on the opposite end of the stock, substan-tially as shown and described. 3rd. In the above described boxing machine, the chain-way E1, chain C1, saw H1, and cutters J and J1, arranged so as to be movable toward, or from, the chainway E, by the means of the screws L, which are worked by the crank p through the shaft p1, bevel-gears g and g1, and the spindler, substantilly as shown and for the purpose set forth. 4th. The saws H and H1 and cutters I and I1, and J, J1, having their respective arbor pulleys belted indirectly from the driving power, so as to act on both ends of the stock in the manner described. 5th. In a boxing machine, the cone pulleys a and a1, spur wheels b, b1, shaft c, screw pinion d, spindle e, screw wheel g and bevel gear wheels b, and i, as shown and described. 6th. The combination, in a boxing machine, of the above-mentioned saws and cutters, with the endless pitch-chains C and C1, running through the chain-ways E and E1, the case F, and the adjustable binders G having the flexible rollers G1, substantially as herein shown and for the purpose set forth.

No. 22,601. Boot. (Botte.)

Joseph Seguin et Jean B. Lalime (Assignees of C. H. Kirkland), all of St. Hyacinthe, Que., 7th October, 1885; 5 years.

St. Hydenine, Que, , ith October, 1885; 5 years. Claim.-Ist. A boot having the upper formed of three pieces, so shaped and attached together as to prevent the necessity of a seam across the instep, substantially as herein set forth. 2nd. A boot with upper formed of a blank, comprising the vamp, foxings, centre-piece and back piece, a separate quarter and an insertion piece, all sub-stantially as described. 3rd. The blank A herein described, compris-ing vamp δ_1 foxing c, centre-piece d, high foxing e and back piece f, all as herein set forth and for the purposes described.

No. 22,602. Auger Bit. (Meche de Tarière.)

Charles H. Irwin (Assignee of W. McI. Dimitt), all of Martinsville, O., U.S., 7th October, 1885; 5 years.

Claim.-1st. The solid auger-bit, comprising the central stem hav-ing the single convoluted blade formed with a single chisel or knife edge cutter, said cutter being disposed at one side of the stem and at

the lower end of the blade, substantially as shown and described and for the purpose set forth.

No. 22,603, Sleigh Knee. (Courbe de Traîneau)

Frank J. Bartlett, Easton, (Assignee of G. W. Taylor, Sugar Hill,) N.H., U.S., 7th October, 1885; 5 years.

N.H., U.S., 7th October, 1885; 5 years. Claim.-Ist. In combination with the runner A and spindle m, the bracket D, as described, having recesses d_2 , d_4 , and projection d, the pin n, and securing bolts, as set forth. 2nd. In combination with the bolts c, brace-cap G, G₁, and bracket D, having recesses d_1 , d_4 , projection d, and conical bearing, the spindle m. and pin n, as set forth. 3rd. The bracket described, having base D₁, body D₂, diverg-ing arms D₃, recesses d_1 , d_4 , cap-plate D₄, and slot d_2 , combined and adapted to serve the bolts C, perforated plate or step δ_1 and spindle m, as set forth. 4th. The slip or perforated step and bracket D, having recesses d_2 , d_4 , and projection d_1 in combination with a run-ner A, and bolts c, the said clip having flanges d_2 , substantially as shown and described.

No. 22,604. Automatic Device for Storing **Power.** (Appareil Automatique pour Em-magasiner la Force.)

Appleton J. Pattison, Toronto, Ont., James Houlehan, Toledo, O., 7th October, 1885; 5 years.

The October, 1885; 5 years. *Claim.*—Ist. The hereinbefore described apparatus for automati-cally accumulating and utilizing power, which apparatus consists of a lever or series of levers, having thereon a projection or projections actuated by the wheels of a passing train for operating automati-cally mechanism, substantially as described, for accumulating and releasing the power for the purpose of pumping water into a tank or elevated eistern. 2nd. As an improvement in apparatus for auto-matically accumulating and utilizing power, the combination of a lever or series of levers with a projection or projections thereon, of springs abutting against the underside of said lever or levers, of a pawl or dog secured to said lever for actuating a ratchet wheel, the whole operating substantially as described. 3rd. In an apparatus for automatically accumulating and utilizing power, the combination of the ratchet wheel E secured to the shaft F, held in bearings f, fr. of the locking pawl or dog G secured to the bed-plate H and operat-ing to lock the ratchet wheel E, of the grouped or recessed wheel d for the reception of the chain I, of the guileys J, J, for guiding the chain operating the weight K sliding in guides i, i, upon the outside of the tank L, the whole operating substantially as described.

No. 22.605. Car Ventilator. (Ventilateur de Char.)

Alonzo Bell, Washington, D.C., U.S., 7th October, 1885; 5 years.

Alonzo Bell, Washington, D.C., U.S., 7th October, 1885; 5 years. Claim.—1st. The car ventilator herein described, consisting of the double cowl A, A, open at the bottom and having central passage B arranged beneath the car and communicating with the interior there-of, an i a register placed over the passage B, wiereby air and dirt may be discharged from the bottom of the car, as and for the pur-pose set forth and described. 2nd. The car, wentilator, herein de-scribed, consisting of a double cowl A, A, having an open bottom and arranged horizontally beneath a car floor, exhaust casing B forming at its lower end a vertical central passage through said double cowl, and communicating with the interior of the car, a floor register and a side register or registers opening into said casing, as shown and described, whereby air and dirt may be discharged from the lower portion and the hot air removed from the upper portion of the car, substantially as set forth. substantially as set forth.

No. 22,606. Light Metal Wheel.

(Roue en Métal Léger.)

Paul Flock, Waterford, Ont., 7th October, 1885; 5 years.

Claim.—A wheel, in which the rim A is connected to the hub B by a spoke D having enlarged ends, the end p designed to screw into the hub B having a coarser thread cut upon it than the end a, which screw into the rim A, the whole being aaranged substantially as and for the purpose specified.

No. 22,607. Lathe for Turning Concentric (Tour à Tourner les Formes Con-Forms. centriques.)

Harry C. Albee, Detroit, Mich., U.S., 7th October, 1885; 5 years.

Harry C. Albee, Detroit, Mich., U.S., 7th October, 1885; 5 years. Claim.—1st. In a lathe for turning concentric forms, in which the spindles are mounted in revolving disks and rotated around revolv-ing cutter-heads, the fixed guide-rails P, which guide the radial move-ment of the spindles by their inner track, in combination with the coil springs c, substantially as and for the purposes described. 2nd. The revolving disks E, El, provided with radial recesses or slots, the sliding blocks G radially-movable in said slots, the spindle boxes H carried by the sliding blocks, spindles I, J, carried by the spindle boxes and coil springs placed around the spindles by means of which they are retractably held in place, all in combination. 3rd. In com-bination with a series of revolving cutter-heads, rotary disks carry-ing independent radially movable spindles around said cutter-heads, stationary guideways upon the main frame for guiding the radial movement of said spindles, and devices such as the friction disks L, K, for revolving the live spindles, consisting of the disks K blaced upon the spindle boxes or upon the spindles as described, and of the disk L sleeved upon the main shaft and adapted to transmit the motion gived to it to the disks K by means of frictional contact therewith. 5th. In a lathe for turning concentric forms, the combination of a series of cutter-heads which simultaneously work upon the stick of the corresponding disks E, Et, one carrying a series of live spindles and the other a corresponding series of dead spindles, of the sliding blocks G mounted in radial slots in the disks and radially guided