operation, as herein specified. 5th. In a fountain pen, the outer case A and inner case or feeder B, combined as shown, to present a thin annular aperture between them, in combination with a coating of wax, or analogous water-repelling material applied on one of the surfaces, substantially as herein specified. 6th. A fountain pen case in two part, some within the other, the inner part B having a projection B2 and being removable and adjustable by sliding within the other, substantially as herein specified. 7th. In a fountain pen, the elastic bulb M, in combination with the outer case A and adjustable inner case or feeder B, the device being arranged to allow the slow escape of the ink, as herein specified. 8th. A fountain pen having two concentric casings A and B one of which is equipped with a pen point A1 integral therewith, arranged as shown, so as to serve at will either as a pen itself, or as a holder to receive a separate pen C and to supply ink properly under either condition, as herein specified. ply ink properly under either condition, as herein specified.

No. 19,741. Friction Clutch.

(Embrayage à Friction.)

William H. Rascoe, Plattsburgh, N.Y., U.S., 5th July, 1884; 5 years.

Claim.-The combination, with a shaft, of the wheel A provided with the recesses of in the sides of the opening for the shaft, the rollers. H in the recesses, the plugs or blocks L resting against the rollers, and the springs K interposed between the blocks L and the ends of the recesses, substantially as herein shown and described.

No. 19,742. Car Truck. (Châssis de Char.)

Luther K. Jewett, Fitchburg, Mass., U.S., 5th July, 1884; 5 years.

Luther K. Jewett, Fitchburg, Mass., U.S., 5th July, 1884; 5 years. Claim-1st. The all metal centre-beam composed of the sections a, b, each consisting of the plate 2 and flanged plates 3, 3 rivetted and fitted together, and intermediate inclosed springs e, substantially as shown and described. 2nd. The all-metal centre-beam composed of the sections a, b, each consisting of the plate 2 and flanged plates 3.3 rivetted and fitted together, and intermediate inclosed springs e, combined with beams e, e1, e2, boxes d1, posts and bolts for connecting them, and axles and wheels, substantially as shown and described. 3rd. The centre-beam composed of the metal plates 2, 3, united together and fitted to slide vertically, and the intermediate springs and beams e, e1, combined with the independent metal posts and bolts 4 and 6, to operate, substan ially as described. 4th. The box d1 grooved at its sides, and the beams e1, e2 and e2 above and below it, combined with the independent posts and below it, combined with the independent posts e1 and e2 above and below it, combined with the independent posts e2 and e3 above and below it, combined with the independent posts e3 and e3with the independent posts h and bolts g extended through the said posts and beams, substantially as described. 5th. The all-me al centre-beam having the sections a, b, each consisting of plates 2, 3, 3, combined with the flanged wear-plates and rivets p for uniting them, and the parts 2, 3, 3 of the sections a, substantially as shown and described.

No. 19,743. Music Leaf Turner.

(Tourne-Feuille de Musique.)

Charles Onslow, Port Ewen, N. Y., U. S., 5th July, 1884; 5 years.

Claim.—1st. A music-leaf-turner provided with the revolving fingers T, spring bands R, and a finger piece N having a spring catch, all arranged and operating as set forth. 2nd. In a music leaf turner having the fram s A, the guides h arranged on one of the trames, in combination with the spring bunds R, as shown and described. 3rd. In a music leaf turner having the frame A, the wo pairs of spring arms B, C, having stops i and pivoted to said frames, in combination with the spring arms R, as set forth.

No. 19,744. Pulley. (Poulie.)

Olaf R. Olsen, Indianapolis, Ind., U.S., 5th July, 1834; 5 years.

Claim.—ist. The outer rim r, in combination with the secondary rim r1, hub h and spokes s, substantially as described. 2nd. A pulley composed of a jointed outer rim of metal, to which the hub and spokes are connected by means of a secondary inner rim, substantially as described.

No. 19,745. Moccasin. (Mocassin.)

Joseph Durand, Jeune Lorette, Que., 5th July, 1884; 5 years.

Joseph Durand, Jeune Lorette, Que., 5th July, 1884; 5 years.

Claim.—1st As a new article of manufacture, a moccasin having its upper cut to meet in front, and having the lace holes 6 and lace hooks c, by means of which the lace d holds the edges of the upper together. 2nd. As a new article of manufacture, a moccasin having its upper cut so that its edges may be brought together and laced in front, and provided with the stiffening pieces a and the binding d, substantially as shown and described. 3rd. As a new article of manufacture, the combination, in a moccasin of the shoe or foot part A, upper B, tongue C with the stiffening pieces a, lace hooks b, lace d, substantially as shown and for the purpose herein set forth.

No. 19,746. Tile Mold. (Moule à Tuile.)

James Grant, Goshen, Ind., U. S., 5th July, 1884; 5 years.

Claim.-1st. A collapsible core formed in longitudinal sections and Claim.—1st. A collapsible core formed in longitudinal sections and provided with notches at its ends, in combination with a longitudinal strip located between said sections to form a key, and screw-threaded pins seated in the notches of the sections and provided with tightening nuts and pivoted latches, whereby the sections of the core are drawn together against the key, and the latter held in position between the same, substantially as and for the purpose set forth. 2nd. The combination, with a collapsible core formed in longitudinal sections and provided with a key held between them by a pin and latch, of a mold frame consisting of a suitable base or platform provided with removable side and end sections, said end sections being divided longitudinally, and each half having at its ends, notches or grooves and clamping-rods seated therein, and provided with nuts engaging the screw-threaded ends thereof to securely hold both the side and end sections together, and to the base or platform, substantially as and for the pu. pose specified. and for the pu.pose specified.

No. 19,747. Electric Lamp. (Lampe Electrique.)

Emile L. Roussy, Vevey, Switzerland, 5th July, 1894; 5 years.

Emile L. Roussy, Vevey, Switzerland, 5th July, 1834; 5 years.

Claim.—1st. A moderator of intensity for incandescent electric lighting, consisting in a varying resistance inserted in the circuit, and composed of a small culumn of matter conducting electricity reduced into small grains, filaments.etc., and contained in a cavity or other receptacle in which this matter can be more or less compressed by one means or another, in order to increase or diminish the resistance offered to the current passing through it by the conductor thus formed, substantially as shown and described. 2nd. The lampholder with moderator represented by the figs. 1, 2, 3 and 4, and described above, composed in principle of a socket x made of an isolating matter, of a nut d with compressing screw h, of the powder i, of the nut m, of the top k with excentric l, and the metallic socket f, the nut d and the socket f being connected in any manner with the electrical circuit, substantially as shown and described. 3rd. The lampholder, with moderator represented by figs. 5 and 6 and composed in principle of a socket x made of an isolating mutter supporting two later of socket x made of an isolating mutter supporting two later ferrules, one of which contains the moderator consisting of the powder is compressed between the screws h and m1, and the other the interaction of the powder for the powder is principle of a conical shaft l, of a spring of and of secontric k1, the whole as described above and as illustrated by the drawings.

No. 19,748. Tobacco Resweating Device.

(Appareil pour faire Ressuer le Tabac.)

Runo Martin, East Saginaw, Mich., U.S., 7th July, 1884; 5 years.

Claim.—1st. In combination with the oil-reservoir D. arranged contiguous to the tobacco-holding box to economize space, and surrounded by water within the water-tank A to prevent the generation for gas within the oil-reservoir from the heat of the box. or arising of gas within the oil-reservoir from the heat of the box. or arising asses from the burner K, the said burner box and steam generator L. gasses from the burner K, the said burner box and steam generator is a tobacco-sweating device, in which the steam is generated in a boiler L and pan M. the annular shield O having perforations for the purposes set forth. 2nd. In combination with add boiler L and pan M. the annular shield O having perforations for the purpose set forth. 3nd trough n and feed pipes o, as and for the purpose set forth. 3nd trough n and feed pipes o, as and for the purpose set forth. 3nd trough n and read read of the water tank, which supplies the boiler, the combination of said oil the water tank, which supplies the boiler, the combination of said oil the water tank, which supplies the boiler, the combination of said oil the water tank, arranged contiguous to the tobacco-holding tank D and water-tank A arranged contiguous to the tobacco-holding tank D and water-tank A arranged contiguous to the tobacco-holding tank D and water-tank A arranged contiguous to the tobacco-holding tank D and water pipe 1, cocks d and e, burner K and put he whereby the oil is protected from the heat which arrises from the whereby the oil is protected from the heat which arrises from the burner, as set forth. 5th. The combination, of said oil trough N secured thereto, of the branch pipes, gage t and burner lar trough N secured thereto, of the branch pipes, gage t and with the burner k and for the purposes set forth. 5th. The combination, with arranged within the box, as set forth. 6th. The combination, with a said face of the contained water, and the rose m, of the plate M having face of the con

No. 19,749. Circular Gravity Railway.

(Chemin de Fer Circulaire à Gravitation)

Alanson Wood, Toledo, Ohio, U.S., 7th July, 1883: 5 years.

Claim.—let. A circular railway with a continuous circular railway with a continuous circular railway with a continuous circular railway with a starting point for part of its wiy, provided with a gradual decline for another part of the way, and then and with a steep decline for another, so arranged that a cur travelling of track to a level where it will stop, substantially as herein shown at track to a level where it will stop, substantially as herein shown with described. 2nd. In combination, with a circular track provided way the grades herein described, the platforms C. L. inc.ined way that stars D and ticket-station, substantially as and for the purposes set forth.

No.19,750. Roller Mill. (Moulin à Cylindres.)

John Livingston, Dayton, Ohio, U.S., 7th July, 1884; 5 years.

Claim.—1st. In a roller-grinding mill, the combination, with the roller operating grinding-rollers, the upright pivoted journal arms, the roller adjusting shafts or rods, adjustable spring-connections, hopper gree mechanism, a through-shaft and sleeve journalled thereon, operating one of said levers, the rolls can be thrown apart or vise-versal be upon operating the other of said levers the hopper gates will be upon operating the other of said levers and be grasped and operated operated, and whereby both of said levers can be grasped and operating the combination, with the connecting rods and an oscillating the shaft provided with a lever for operating the outer roll, supported shaft provided with a lever for operating the outer roll, and provided ever pivoted upon the through shaft, whereby the hopper grate mach lever pivoted upon the through shaft, whereby the hopper grate mach versa, substantially as described.