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 aperturs between them, in combination with a coating of wax, or analogous water-repelling material applied on oae of the of wax, or anatogous water-repelimg mader
surfaces, substantially as herein specified. 6th. A fountain pen case surfaces, substantially as herein specified. 6th. A fountain pen case
in two mart, sone within the other, the inner part B having a projection in two mart, sone within the other, the inner part $B$ having a projection
$\mathrm{B}_{2}$ and being removable and adjustable by sliding within the other, B2 and being removable and adjustable by sliding within the other,
substantially as herein specified. 7th. In a fountain pen, the elastic substantially as berein 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, us herein specified. 8th. A fountain pen having two concentric casings $A$ and $B$ one of which is equipped with a pen point AI 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.

## No. 19,741. Friction Clutch.

## (Embrayage d 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 $G$ 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, 188t; 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 tugether, and intermedinte inclosed springs e, substantially as shown and described. 2nd. The all-metal centre-beam composed of the sections a, b. each $c$ nsisting of the plate 2 aud flanged plates 3.3 rivetted and fitted together, and intermediate inclosed springs $c$, combined with beams $e_{\text {, }} e_{1}, e^{2}$, boxes $d$, posts and bolts for connecting them, and axles and wheels, substantially as shown and described. 3 rd . The centre-beam composed of the metal plates 2 , 3 , united together and fitted to slide vertically, and the interinediate springs and beams $e, e^{\mathrm{I}}$, combined with the independent metal posts and bolts 4 and 6 , to operate, substan ially as described. 4th. The box $d^{1}$ grooved and 0 , to operate, substan ially as described. 4 th. The box di grooved at its sides, and the beams el ez and e above and below it, combined
with the independent posts $h$ and bolts $g$ extende 1 through the s:id With the independent posts $h$ and bolts gextende through the sitid
posts and beams, substantially as described. 5th. The all-me al posts and beams, substantialy as described. 5 th. 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 $p$ or uniting them, and the parts $2,3,3$ of the sections $a$, substantially as shown and described.

## No. 19,743. Music Leaf Turner. <br> (Tourne-Feulle de Musique.)

Charles Onslow, Port Ewen, N. Y., U. S., 5th July, 1884 ; 5 years.
Claim. -1 st . A music-lenf-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 leat turner having the fram s A, the guides $h$ arranged on one of the trames, in combination with the spring binds K , as shown and described. 3 3rd. In a music leaf turuer having the frame A, the wo pairs of spring arms $\mathrm{B}, \mathrm{C}$, 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, 1894; 5 years.
Claim.-Ist. The outer rim $r$, in combination with the secondary rim $r i$, hub $h$ and spokes $s$, subsiantially as described. 2nd. A pulley
composed of a jointed outer rim of inetal, to which the hub und composed of a jointed outer rim of inetal, to which the hub and
spokes are connected by means of a secondary inner rim, substanspokes are connected.
tially as described.

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

Joseph Durand, Jeune Lorette, Que., 5th July, 1884; 5 years.
Claim.-lst As a new article of manufacture, a moccasin having its upper cut to meet in front, and having the lace holes $b$ and lace hooks $c$, by means of which the lace $d$ bolds the edges of the uppor together. 2nd. As a new article of manufacture, a moccasin having its upper cut so that its edges uay 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 manutacture, the combination, in a moccasin of the shou or foot part $A$, upper $B$, tongue $\mathbb{C}$ with the stiffening peces $a$. lace hooks $b$, lace $d$, substantially as shown and for the purpose ber in set forth.

## No. 19,746. Tile Mold. (Moule a Tuile.)

James Grant, Goshen, Ind., U. S., 5th July, 1884; 5 years.
Claim.-1st. A collapsible core formed in longitudinal sections and provided with notches at its ends, in combination with a longitudinal strip lucated between said sections to form a key, and screw-threaded pins seated in the notches of the sections and provided with tightening nuts and pivotcd latches, whereby the sections of the core are drawn together against the key, and the latter beld in position between
the same, substantially as and for the purpose set forth. 2nd. The the same, substantially as and for the purpose set forth, 2nd. The
combination, with it collapsible core formed in longitudinal sections combination, with a collapsible core formed in longitudinal sections
and provided with a key held between them by a pin and latch, of a and provided with a key held between them by a pin and lateh, of a
mold fraine consisting of a suitable base or platform provided with removable side and end sections, said end sections being divided longitudinally, and each halt having at its ends, notches or grooves and champing-rods seated therein, and provided with nuts engaging
the screw-threaded euds thereof to securely hold both the side and 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.

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

Emile L. Roussy, Vevey, Switzerland, 5th July, 1834 ; 5 years.
Claim.-1st. A moderator of inteasity for incandescent electrio lighting, consisting in a varying resistance inserted in the circult and composed of a small colung of $m \cdot t t e r$ conducting electricity reduced into small gricins, filaments.etc., and contained in a cavity od other receptacle in which this matter cin be more or less comprosseiby one means or another, in order to increase or diminish the res stance offered to the current passing through it by the conduc or formed, substantially as shown and described. 2nd. The lampholibed with moderator represented by the figs. 1, 2,3 and 4, and describes above, composed in principle of a socket $x$ made of an isolat the matter, of a nut $d$ with compressing screw $h$. ot the powder $i$, on put nut $m$, of the top $k$ with excentric / and the metallic socket $f$. iectrica
$d$ and the sucket $f$ being connected in any manner $d$ and the socket $f$ being connected in any manner with the elechider circuit, substantially as shown and described. 3rd. The lamphoidiple with moderator represented by figs. 5 and 6 and composed in princip il of a socket $x 1$ made of an isolating $m$ utter suppsrting two later ferrules, one of which contains the moderstor consisting of the po inter $i$ compressed between the screws $h \mathrm{x}$ and $m \mathrm{r}$, and the other the of cepting tap formed of a conical shaft $l$, of a spring ol and the excentric

## No. 19,748. Tobacco Resweating Device- <br> ( Appareil pour faire Ressuer le Tabac.)

Bruno Martin, East Saginaw, Mich., U.S., 7th July, 188i; 5 years.
Claim.-1st. In combination with the oil-reservoir D, arrib sur contiguous to the tobacco-holding nox to eoonomize space, and aion rounded by water within the water-tank A to preveut the generaisins of gas within the oil-reservoir from the heat of the box, or aror L. gases from the burner K, the said burner box and steam gener with the as and for the purposes set torth. 2nd. In combination boiler Land pan M. the annular shield 0 having vertorations ${ }^{r}$ rd. In trough $n$ and feed pipes o, as and for the purpose set forth. a tobaco-sweating device, in which the steam is generated in a builer by heat derived trom hydro-carbou fuel fed from a tankinclosel the water tank, which supplies the boiler, the combination of salding tank $D$ and water-tank $A$ arranged contiguous to the tobacco-holm $M$, box, the pipe $H$, water pipe 1 , cucks $d$ and $e$, burner $K$ and pan the Whereby the oil is protected from the heat which arises and annu bar trough N secured thereto, of the branch pipe pane $t$ and burud $K$, as and for the purposes set forth. 5th. The combination, with K, as and for the purposes set forth. 5th. The combinalion,
bux $B$ provided with an esoape valve $Q$. and haviug a lining bux B provided with an esoape valve Q, and haviug a liuing of Fanized iron secured to studs, to form an air space connected
the outer uir by pertorations ill the box, of the steam gonersio arranged within the bux, as set forth. 6th. The combiancion, sur the burber $K$ and the boiler $L$ having the part $l$ sealed below ${ }^{t}$ face of the contained water, and the rose m, of the plate annular groove $u$ to receive the water of condens:ation, where water may either flow back into the boiler or be evapora forth. 7 th. The plate $M$ forming a close bottoin for the stenm is device B, and a reservoir to hold the wand conical and rose $m$, as set forth, for the purposes set forth. 8th. In a resweating tobacco, the metal pan M supporting the sweat bux provided with a boiler $L$ centrilly secured thereto, and forming its top a part of the bottom of the pan, substantially as and for the purpuse described. 9 ch . In a device fur resweating rubucco, the cobed, biuation of the boiler L, shield $U$ and pan M, consiructed as das and combined with the box B for the purnose of utilizing heat obtained from the vapor-burner, for generating stean boiler and re-evaporating the water of condensation substantially as described. 10th. The combination, with the pd leading from the oil supply tank, of the tank II, bulb Alads and pipe $B^{\prime}$, the parts being arranged and operating substantial for the purpose specified.

## No. 19,749. Circular Gravity Railway. <br> (Chemin de Fier Circulaire à Gravitation.)

Alanson Wood, Toledo, Ohio, U.S., Th July, 1883; 5 years.
Coim.-1st. A circular railway with a continuous circular trank provided with a rapid decline at the starting point for part of its the and with a gradual decline for another part of the
with a steep dectine for another, so arranged that a car tr said track will acquire a great velocity to carry it up a track to a level where it will stop, substantially as here pro the grades herein described, the platforms C, L, incined was stairs D and ticket-station, substantially as and for the pat forth.
No.19,750. Roller Mill. (Moulin a Cylindres.)
John Livingston, Dayton, Ohio, U.S., 7th July, 1884 ; 5 years.
Claim.-lst. In a roller-grinding mill, the combination, with operating grinding-rollers, the upright pivoted journal ar, hopp adjusting shafts or rods, adjustable spring-conneections, theren, mechanism, a through-shaft and sleeve journalled thereopo adependent levers and connecting mechanism, wher or vise ng one of said levers, the rolls cau be thrown apart or gate operated, and whereby both of said levers can be grasped all simultaneously, substantially as described. 2nd. In a roltio combination, with the connecting rods and an oscillating combination, with the connecting rods and an orter roll, journals of a sleeve journalled upon said through-ghal ed with a quadrant-wing, the hopper gates, the sidipper lever pivoted upon the through shaft, whereby the hopper versa, substantially as described.

