

substantially as described. 11th. In a cigar rolling machine, a paste chamber, combined with means substantially as described for passing paste from said chamber to and upon the tip of a cigar, substantially as described. 12th. In a cigar rolling machine, the combination, with rollers for rolling a cigar, of the shaft O and a flexible finger connected to and carried by said shaft, substantially as described.

No. 30,919. Advertising Cabinet.

(*Buffet de publicité.*)

Isaac B. Stone, Tottenham, Ont., 9th March, 1889; 5 years.

Claim.—1st. The advertising cabinet, herein described, the same comprising an ordinary top, bottom, back and sides, and a front composed of vertical longitudinal strips slotted in their adjacent faces, and removable advertising panels passed into the upper ends of, and built up within, said slots from the bottom, all of said panels in each longitudinal row being in one vertical plane. 2nd. The advertising cabinet herein described, the same comprising an ordinary top, bottom, back and sides, and a front composed of vertical longitudinal strips, slotted in their adjacent faces, removable advertising panels passed into the upper ends of and built up within said slots from the bottom, all of said panels in each longitudinal row being in one vertical plane, and transverse strips having reduced ends fitting said slots, said strips being interposed transversely between the adjacent upper and lower ends of each vertical pair of panels, and forming a horizontal raised bead between them, as and for the purpose set forth. 3rd. The advertising cabinet herein described, the same comprising a plain top, bottom, back and sides, and a front composed of vertical longitudinal corner strips a, interior vertical longitudinal strips b in a transverse line therewith, inner vertical longitudinal strips c, back of the plane of said strips a and b, all of said strips being longitudinally slotted on their adjacent faces, the panels e fitted between said strips a and b and c, the panels f fitted between said strips c and the glass h also fitted and inserted between said strips c, said panels and glass being removably inserted in said slots from the top and built up from the bottom, as and for the purpose described.

No. 30,920. Automatic Switch.

(*Aiguille automatique.*)

Michael Leary and James F. Mann, Utica, N.Y., U.S., 9th March, 1889; 5 years.

Claim.—1st. The combination of two stationary diverging rails, two split rails between the stationary diverging rails, each split rail converging with a stationary rail, one of the split rails being held stationary, and the other movably held to the diverging stationary rail by spring tension, and a stationary plate at the end of the stationary split rail, substantially as set forth. 2nd. The combination of two stationary diverging rails, two split rails between the stationary diverging rails, each split rail converging with a stationary rail, one of said split rails being stationary and the other movably held to the stationary rail, the bolt and spring and a stationary plate at the end of the stationary split rail, substantially as set forth. 3rd. The combination of the stationary diverging rails, two split rails between the stationary diverging rails, each split rail connecting with a stationary rail, one of the split rails being held stationary and the other movable held to the diverging stationary rail by spring tension, substantially as set forth.

No. 30,921. Washing and Scrubbing Gas and Apparatus therefor.

(*Lavage et frottement du gaz et appareil pour cet objet.*)

Kirkham, Hulett and Chandler (assignees of Samuel Chandler, Sr., Samuel Chandler, Jr., and Josiah Chandler), London, Eng., 9th March, 1889; 5 years.

Claim.—1st. In apparatus of the kind hereinbefore described for washing and scrubbing gas, the combination of one or more buckets e or its or their equivalent or equivalents, with a trough f into which the said bucket or buckets is, or are, adapted to discharge, the said trough being suitably connected by a pipe or channel g, with one or more of the bags or chambers of the apparatus, substantially as and for the purpose hereinbefore described. 2nd. In apparatus for washing and scrubbing gas, comprising a number of bags or chambers, as set forth, a series of scrubbing devices d, each of which is essentially constructed of a number of sections built up of bars or laths i, carried between suitable side plates and discs or discs alone, whereby, as the scrubbing devices rotate a large area of wetted surface is provided, and whereby a very zig-zag course is given to the gas in passing through the apparatus, the gas being thereby thoroughly broken or split up and brought into very intimate contact with the said wetted surfaces, substantially as described.

No. 30,922. Plough Point Sharpener.

(*Rémouleur des socs de charrues.*)

Fred. Munger and John S. Carman, Alliance, Neb., U.S., 9th March, 1889; 5 years.

Claim.—A plough point sharpener, consisting of anvil A, block F, spring E and screw N, all formed and combined substantially as and for the purpose hereinbefore set forth.

No. 30,923. Filtering Faucet.

(*Robinet-filtre.*)

William H. Sargent, South Weymouth, Mass., U.S., 9th March, 1889; 5 years.

Claim.—1st. A filter, comprising the metallic case f, having a corrugated body and a perforated crown-top, a thimble-shaped felt screen disposed within said case and provided with an outwardly-projecting flange at its lower end, a thimble-shaped wire-cloth screen disposed within said felt screen, and also provided with an outward flange at its lower end, and a perforated plate disposed beneath said case and screen, substantially as described. 2nd. In a faucet of the character described, the metallic case f having its body corrugated

and its upper portion perforated, in combination with a felt screen disposed within said case, a wire-cloth screen disposed within said felt screen, a perforated plate disposed beneath said case and screen, the body A, valve D, chamber B and cap E, having the duct m, all combined and arranged to operate substantially as specified. 3rd. The improved faucet herein described, the same consisting of the body A provided with the valve D, the chamber B connected with said body and provided with the flange i and screw-cap E having the duct m, the metallic case f, having its body corrugated and its upper portion perforated, the thimble-shaped felt screens m, provided with the water-proof flanges Z, the thimble-shaped wire-cloth screen t, provided with the flange v, the filtering material b disposed within the screen t, and the perforated plate k having the upwardly-curved projection y, all being constructed, combined and arranged to operate substantially as set forth.

No. 30,924. Winker Fork Attachment.

(*Branches d'oeillère de bride.*)

Edmund B. Knapp, San Jacinto, Cal., U.S., 9th March, 1889; 5 years.

Claim.—1st. The combination of the winker, the winker-fork having an enlargement at its end inserted in the winker, and the fastening plate having a series of pins projecting therefrom and inserted through the winker and the enlargement of the winker-fork, substantially as specified. 2nd. In combination with the winker, the winker-fork inserted within the winker at one end, and the fastening pins passed through the winker-fork and winker to secure the parts together.

No. 30,925. Boot and Shoe.

(*Chaussures.*)

Jeremiah M. Hanson, St. Andrews, N.B., 9th March, 1889; 5 years.

Claim.—As an improved article of manufacture, a boot or shoe made of one piece of leather so cut as to form the whole upper and insole, and to allow of the outside sole being sewn on before the shoe is closed up, all substantially as set forth.

No. 30,926. Railway Time Signal.

(*Signal horaire de chemin de fer.*)

Charles Barry, Corning, N.Y., U.S., 9th March, 1889; 5 years.

Claim.—1st. In an improvement in railroad signals, the combination of the pivoted lever frame B, minute wheel b₂, a curved or hooked arm C, the index shaft f, the wheel D, F, the spring f₂ encompassing said shaft f, and the vertical rod G engaging said curved or hooked arm C, substantially as shown and described. 2nd. The combination of the pivoted lever frame B, the curved arm d provided with a projecting pin d₁, the index shaft f and the index wheel F having a pin or stud f₂ and the spring-actuated arm E, substantially as shown and described. 3rd. The combination of the clock mechanism A, the lever frame B, the outer minute wheel D carried thereby, the index shaft f carrying the index hands f₂, the wheel F having a segment of its teeth removed, and the curved arm d connected to said lever frame B, substantially as shown and described. 4th. The combination of the lever frame B, a minute wheel b₂, the curved or hooked arm C secured to said frame B, the index shaft f, the wheel F, the vertical rod G having a circular groove G₁, and the track lever I having connection with said rod G, substantially as shown and described. 5th. The combination of the clock mechanism A, the lever frame B, the hooked arm C, the index hand f₂, the shaft f, the wheel F, the vertical rod G having a grooved portion G₁, in contact with said lever frame B, the rod I₁, lever H connected to said rods G, I₁, the spring I₂ connected to said rod I₁, the lever I and the track rail i, said lever I extending under the track rail i, substantially as shown and described. 6th. In an improvement in railroad signals, the combination of the signals having a front and rear dial J, the shaft f carrying the dials J, the index hands f₂ secured on the ends of said shaft f and travelling over said dials J in the same direction, and operated substantially as described. 7th. In an improvement in railroad signals, the combination of the signal having two faces or dials J, J, the index hands f₂ travelling over the dials J in the same direction thereof, and operated substantially as described. 8th. The combination of the signal having two faces J, J, the shafts f, f, the index hands f₂ secured upon the outer ends of said shafts f, f, the cog wheels i, i₂ arranged on said shafts f, f and gearing with each other, and the wheel F secured on one of said shafts f and the clock mechanism A, said wheel F gearing with said clock mechanism, whereby said index hands will move in opposite directions, substantially as set forth.

No. 30,927. Lumber Trimmer.

(*Scierie de recépage.*)

Michael Garland, Bay, Mich., U.S., 9th March, 1889; 5 years.

Claim.—In a lumber-trimmer, the combination, with the usual carrier device or mechanism for conveying the board sideways to the trimming-saws, and with the usual stop or stops for gaging or determining the length of the trimmed board, of suitable feed-rolls D, operating as specified to feed the board endwise toward and against the stop device, all substantially in the manner hereinbefore set forth.

No. 30,928. Process for Aerating and Purifying Beer Worts and Beer, and Apparatus therefor.

(*Procédé d'aération et de purification du mout de bière et de la bière et appareil pour cet objet.*)

Axel Bergh, Copenhagen, Denmark, 9th March, 1889; 5 years.

Claim.—1st. The herein described method of separating the suspended particles from worts or beer by means of centrifugal action. 2nd. The herein described method of simultaneous freeing worts from suspended particles and supplying the same with sterilized air. 3rd. The herein described method of conducting the worts