

low the axial line of the wheels, and having vertical side walls of the U-shaped or bent axle having its bends or shouldered extensions located outside the marginal lines of the platform, substantially as described. 6th. In a hand truck, the combination, with the wheels and the bent or shouldered axle, of the platform suspended below the axial line, and having its horizontal portion and vertical walls coincidently dotted for the accommodation of the axle bends or shouldered, substantially as described. 7th. In a hand truck, in which the platform is located above the axle, and extends rearwardly beyond the same, the combination, with said platform, of the handle sockets located back of the axial line, and having their inner washers convergent on a horizontal plane, substantially as described. 8th. In a hand truck, the combination, with the platform, of the handle sockets cast therewith and formed with front, rear and inner walls, said walls having their inner surfaces inclined and producing a recess, having its front and back walls inclined rearwardly and its inner walls at an acute angle with the surface of the platform, whereby the handles will be inclined rearwardly and towards each other, substantially as described. 9th. The combination with a hand truck platform located above and extending rearwardly beyond the axle, of handles secured to said platform and converging towards their upper ends, substantially as described. 10th. In a hand truck, the combination, with the platform and wheels, of the wheel guards secured to or cast integral with the platform and having laterally-extending flanges spanning the wheels concentrically, substantially as described.

No. 32,288. Lumber Trimming and Assorting Machine. (*Machine à recéper et assortir le bois.*)

Albert T. Linderman, Whitehall, Mich., U.S., 16th September, 1889; 5 years.

Claim.—1st. The combination, with a machine for trimming lumber, of a series of gauge keys G, G', substantially as described. 2nd. The combination, in a lumber trimming and assorting machine, of a conveyor E, e, a table a, a saw S and graduated openings r, substantially as described. 3rd. In lumber assorting machines, a conveyor n having an inclined bottom, an endless conveyor mechanism and graduated openings p in the inclined bottom of the conveyor, substantially as described. 4th. The combination, in a lumber trimming and assorting machine, of the conveyor E, e, the table a, gauge keys G, saw S, graduated openings r, conveyor trough n, m, and graduated openings p substantially as described.

No. 32,289. Process for Producing Color Printing Plates by means of several transparent layers, each of which is provided with the Painting or Drawing of only one of each of the required colors. (*Procédé pour produire des plaques d'impression en couleurs au moyen de plusieurs couches transparentes, dont chacune est pourvue de couleur ou dessin d'une seule des couleurs requises.*)

Maurice Wirths, New York, N.Y., U.S., 16th September, 1889; 15 years.

Claim.—The production of paintings or drawings in single colors on separate transparent layers, which, when laid one on another, will by means of their transparency represent a complete colored picture, and the application of the same in making press color printing plates for lithographic zinc plate, and photo-lithographic printing for wood-cut, copper plate, and steel plate printing for the Albotype, photo-type, photo-engraving, photo-gravure, zincography, heliographic, autotype, and pigment printing processes, and for all press color printing in which printing plates created by means of photographic processes are used, substantially as and for the purpose set forth.

No. 32,290. Fire Escape. (*Sauveteur d'incendie.*)

Samuel H. Sprague and Isaac R. Swigart, Beloit, Kan., U.S., 16th September, 1889; 5 years.

Claim.—1st. The combination in a fire-escape of a suitable frame B having a shaft journaled therein, projecting bars d, d' carrying pulleys f, f', a brake bar I secured to the inner side of said frame and provided with a spring H, guide-bars i, i'; therefore, flexible connections F and F' wound in different direction upon the shaft, and provided at their ends with a cage and weight, and a flexible connection I extending from the projecting end of the brake-lever into the cage, so that the descent of the cage can be regulated, the parts being organized substantially as shown and for the purpose set forth. 2nd. The combination, substantially as described, of the frame, the chain-drums fixed on a shaft journaled therein, and provided with car chains, the brake-drum fixed to the same shaft, and provided with peripheral recesses, the brake-bar overhanging the brake-drum and provided with a pull-rop, and a band secured to the brake-bar to encircle the brake-drum, and provided with a lug to engage the recesses in the drum.

No. 32,291. Process of Preserving Meats, more particularly those which are Treated or Cured by the Process of Smoking. (*Procédé de conservation des viandes, plus particulièrement celles préparées par la fumée.*)

John D. Reed, Boston, Mass., U.S., 16th September, 1889; 5 years.

Claim.—1st. In combination with a closed smoke-chamber, a furnace located therein, and provided with perforations in its top and

side for the escape of smoke, and the plate C supported upon and raised above said furnace, substantially as specified. 2nd. In apparatus for curing meat by simultaneously smoking and roasting a closed smoke-chamber D, the flue E inclined for purposes stated, the pipes G, H having dampers, and connecting said chamber and flue, combined with the furnace B interiorly of said chamber provided with smoke apertures d, d', grate b, the deflector plate C, and means for controlling the combustion of fuel, substantially as herein stated.

No. 32,292. Door and other Locks.

(*Serrure de porte et autres.*)

Niels G. Sörensen, Stockholm, Sweden, 16th September, 1889; 5 years.

Claim.—A lock consisting of a shell or casing with solid or latticed walls, in which is freely moved and guided, vertically or in an inclined direction, a bolt, the downward motion of which is effected by gravity, and determined by a pin or stud entering into a slot or groove in the shell, and of a cap provided with an inclined or horizontal plane, or only with an edge adapted for the bevelled bolt to slide upon, which cap being fixed on the corresponding door or other part to be locked has for its object to receive the bolt.

No. 32,293. Weather Strip. (*Bourrelet de porte.*)

John E. Jones, New York, N.Y., U.S., 16th September, 1889; 5 years.

Claim.—1st. A weather strip and spring composed of a narrow strip of spring metal set into the edge of the window sash, the outer edge a of the strip being held by spring pressure constantly against the window frame, substantially as described. 2nd. A weather strip composed of a strip of spring metal bent to form the diverging members b, b', substantially as described. 3rd. A weather strip composed of a narrow strip of spring metal bent to form the diverging members b, b', and the flange b₂, substantially as described. 4th. The sash A rabbetted to form the rib D₁ and space D, in combination with the weather strip B formed of a strip of metal bent to form diverging members b, b', substantially as described. 5th. The sash A rabbetted to form the rib D₁ and space D, and slotted at E, in combination with the weather strip B formed of a strip of metal bent to form diverging members, and the flange b₂, substantially as described.

No. 32,294. Horse Rake. (*Râteau à cheval.*)

Cyrille Martel, St. Theodore d'Aston, Qué., 16th September, 1889; 5 years.

Résumé.—1o. La manière de l'adapter à une faucheuse ordinaire en prolongeant l'essieu de cette faucheuse D, A, tel que décrit. 2o. La combinaison permettant un mouvement rotatoire au moyen d'un arbre A, B, tel que décrit et pour les fins indiquées. 3o. La combinaison permettant un mouvement vertical de droite et de gauche au moyen d'une liaison mobile C, entre la tige du râteau (I F, et l'arbre A, B, tel que décrit ci-dessus et pour les fins indiquées. 4o. La combinaison du levier ou bras du râteau, permettant à la personne qui dirige la faucheuse de soulever et abaisser le râteau au besoin K H i, Fig. 4, tel que décrit.

No. 32,295. Safety Switch. (*Aiguille de sûreté.*)

Louis Dunn, Minneapolis, Minn., U.S., 17th September, 1889; 5 years.

Claim.—1st. The combination, with the rails of the main and side tracks and the switch rails, of the stationary rails 25 and 27 arranged between the rails of the side and main tracks, and extending from the rails of the side track toward the rails of the main track, and adapted to guide onto the main track a train passing into the space between the main and side tracks, substantially as described. 2nd. The combination, with the movable switch-rails, of the rails 3 and 1, with either of which said switch is adapted to connect, of the rail 25 extending from the outer side of one of the rails 3 to the inner side of the corresponding rail 1, and the rail 27 extending from the inner side of the other rail 3, the outer side of the other rail 1, substantially as described. 3rd. In combination with the rails 3 and 1, one of the said rails 1 being provided with the groove 28, of the rail 25 and 27 extending from said rail 3 to said rail 1, as described, and the switch adapted to connect with either said rails 3 or 1, substantially as described. 4th. The combination, with the switch rails 5, provided with the branch rails 9 and 11, of the rails 3 and 1, and the branch rails 25 and 27 extending from said rails 3 to said rails 1, all substantially as described.

No. 32,296. Plow. (*Charrue.*)

James Kingdon, Hamilton, Ont., 17th September, 1889; 5 years.

Claim.—1st. In a plow, the combination of the lever I pivoted to the right angle frame C at E and locked into the segment E₁, the rod K, the rigid bearing L, the angle bar J, the socket T, the arm S, wheel R, the arms N, with shank O the wheel M, the collar latch V, the socket lock X, and the double box P and P₁, substantially as and for the purpose hereinbefore set forth. 2nd. The combination in a plow, of the lever D pivoted at E to the frame C, the segment D₁, the link F connected to the bent end of lever D, and to angle lever G and the wheel H, substantially as and for the purpose hereinbefore set forth. 3rd. The frame C secured to beam A, in combination with the levers D and I, segments D₁ and E₁, angle lever G, link F, wheels H, M and R, rod K, bearing L, bar J, arms N and S, double boxes P and P₁, socket T, hand screw U, and the latch V, with its socket lock X, substantially as and for the purpose hereinbefore set forth.