

**No. 36,140. Wrench. (Clé à écrou.)**

Henry Marshal and Samuel K. Huntsinger, both of Lincoln, Nebraska, U.S.A., 14th March, 1891; 5 years.

*Claim.*—1st. In a wrench, the combination, with a rectangular stock terminating at its upper end in a transverse head or jaw and at its lower end in opposite handle-sections, combining to form a socket in rear of the stock, of a sliding jaw mounted on the stock between the head and handle, having its rear face provided with transverse teeth, and a lever pivoted in the head in rear of the jaw and having its inner face provided with teeth for engaging those of the jaw, and its lower end adapted to fit between the handle sections and constitute the remainder of the handle, substantially as specified. 2nd. In a wrench, the combination, with the stock terminating at its upper end in a transverse head, and at its lower end in opposite handle-sections extended in rear of the stock and combined to form a recess, and a sliding jaw mounted on the stock between the head and handle, and having its rear face provided with transverse teeth, of a locking lever pivoted at its upper end in an opening in the head in rear of the stock, and having its inner face provided with teeth for engaging those of the jaw, said lever being adapted to fit within the socket formed by the handle sections, and to thus complete the handle, and carrying a ring at its lower end adapted to swing over the lower reduced end of the handle, substantially as specified. 3rd. The shank 1, having the handle at one end, and the jaw at the other and above the handle, provided with the curved tooth recess 15, in combination with the lever 11, pivoted to the head and toothed opposite the recess, substantially as specified.

**No. 36,141. Grinding Attachment for Mowing Machines. (Appareil à aiguiser pour moissonneuses.)**

The Kellogg Section Grinder Company, (assignees of Clement Augustine Kellogg), all of Elkton, Ohio, U.S.A., 14th March, 1891; 15 years.

*Claim.*—1st. A grinding attachment for mowing machines, provided with grindstones having a section of wood or analogous, non-grinding material secured thereto to prevent grinding the ridge at the front end of the knives, substantially as described. 2nd. A grinding attachment for mowing machines, consisting of one or more yokes carrying grindstones, and secured to a rod adapted to be secured to the finger-bar, and passing through the yokes, in combination with springs secured to said rod and to the yokes, substantially as described. 3rd. A grinding attachment for mowing machines, consisting of one or more yokes and grindstones, a rod adapted to be attached to the finger-bar, supporting said yoke or yokes, and a tension device bearing on said yokes and operated positively by a lever, substantially as described. 4th. A grinding attachment for mowing machines, consisting of one or more yokes supporting grindstones, a rod adapted to be attached to the finger-bar passing through said yoke or yokes, a spring coiled around said rod, secured at its ends to the yoke and provided with a loop, in combination with a spur projecting from the rod and extending through the loop, substantially as described. 5th. A grinding attachment for mowing machines, consisting of a rod adapted to be attached to a finger-bar, swinging yokes secured upon said rod, and extending rearwardly beyond the rod, and grindstones supported by said yokes, in combination with a spur secured to the rod and projecting rearwardly to the end of the yokes, and springs for applying the grindstones to the knives, substantially as described.

**No. 36,142. Guage for Lumber. (Jauge pour bois.)**

The Burrell Johnson Iron Co., (assignees of Benjamin Raymond Patten), all of Yarmouth, Nova Scotia, U.S.A., 14th March, 1891; 5 years.

*Claim.*—1st. The combination, with the vertical guage roller K, journaled in the hinged frame J, of the tubular standard B, the sliding table A, grooves a, the dial C, having notches c, and numerals D, the rod G, journaled in the said standard B, having a pinion F, engaging the rack E, the crank H, handles h, and pawl I, substantially as set forth. 2nd. In a vertical lumber guage for saw mills, the combination, with the standard B, rod G, pinion E, engaging a stationary rack crank H, handles h, pawl I, having a weighted end i, of the dial C, having notches c, and numerals D, substantially as set forth.

**No. 36,143. Balance for Window Sashes. (Contre-poids de croisée.)**

Emery Nixon, Robert George Waite, and Frank Armstrong, all of Toronto, Ontario, Canada, 14th March, 1891; 5 years.

*Claim.*—1st. As an improved window sash balance, a cylindrical casing loosely journaled on its central spindle, a helical spring connected at one end to the central spindle, and at the other to a post in the casing, and a metal ribbon, one end of which is connected to the periphery of the cylindrical casing, and the other end to the bottom of the sash, substantially as and for the purpose specified. 2nd. As an improved window sash balance, a cylindrical casing loosely journaled on its central spindle, a helical spring connected at one end to the central spindle, and at the other to a post in the casing, and a metal ribbon, one end of which is connected to the periphery of the cylindrical casing, and the other end to the bottom of the sash, in combination with the toothed wheel and double-acting dog, arranged substantially as and for the purpose specified. 3rd. As an improved window sash balance, a cylindrical casing loosely journaled on its central spindle, a helical spring connected at one end to the central spindle, and at the other to a post in the casing, and a metal ribbon, one end of which is connected to the periphery

of the cylindrical casing, and the other end to the bottom of the sash, in combination with the toothed wheel and double-acting dog h, which is held in position by being between the inner end of the casing A, and the bracket C, substantially as specified. 4th. As an improved window sash balance, a cylindrical casing loosely journaled on its central spindle, a helical spring connected at one end to the central spindle, and at the other to a post in the casing, and a metal ribbon, one end of which is connected to the periphery of the cylindrical casing, and the other end to the bottom of the sash, in combination with the toothed wheel and double-acting dog h, which is held in operative connection with the toothed wheel by the spring I, substantially as and for the purpose specified. 5th. A toothed wheel H, secured to or forming part of the cylindrical casing A, in combination with the dog h, having a slot i, into which the pin h<sup>1</sup> extends, and a spring I, having a broadened U-shaped end against the sides of which the upper end of the dog h, is held in the different positions it assumes, substantially as and for the purpose specified.

**No. 36,144. Carding Machine. (Machine à carder.)**

Samuel Shoefelt and Joseph Mayor, both of Cornwall, Ontario, Canada, 16th March, 1891; 5 years.

*Claim.*—1st. The combination in a carding-machine, with the licker-in, of a screen consisting of a concave perforated plate secured under the licker-in, and a frame provided with transverse wires or bars, the said frame being hinged to the concave perforated plate, and a device for adjustably securing the hinged-frame, as described. 2nd. The combination, with the concave perforated plate 9, provided with the end ribs 11, and the flange 12, of the concave-screen 14, hinged to the plate 9, provided with the end and center ribs 17, the closely-spaced wires or bars 18, near the hinged edge and the wide-spaced wires or bars 19, adapted for use with the licker-in of a carding-machine, as described.

**No. 36,145. Horse Shoe. (Fer à cheval.)**

Walter Thompson, Newark, New Jersey, U.S.A., 16th March, 1891; 5 years.

*Claim.*—1st. In a horse shoe, provided with slots, rubber, or elastic cushions or calks, adapted to fit into said slots, as described and for the purposes set forth. 2nd. The combination, with a horse shoe, provided with slots having angular sides, as shown, of rubber or elastic cushions or calks adapted to fit into said slots and having their surfaces extending slightly beyond the surface of the shoe, as set forth. 3rd. The combination, with a horse shoe, provided with slots having angular and grooved sides, as shown, of rubber or elastic cushions or calks, and projections or lugs on the sides of said calks, said calks being adapted to fit into said slots and grooves, as described and for the purposes set forth.

**No. 36,146. Corn Product for Brewing. (Blé à l'usage des brasseries.)**

Harvey Bates, Indianapolis, Indiana, U.S.A., 16th March, 1891; 5 years.

*Claim.*—1st. As a new article of manufacture, the herein described corn product, consisting of dry, very tender, uncooked or gelatinized and very absorbent flakes. 2nd. The process of preparing corn, which consists in soaking the corn in warm water, in contradistinction to the use of steam, until perfectly soft throughout, then drawing the water from the grains, then rupturing the maximum of starch corpuscles by laminating the grain between cold rolls, and subsequently drying the resulting flakes, substantially as hereinbefore described.

**No. 36,147. Switch for Railways. (Aiguille de chemin de fer.)**

Aaron A. Ackerly, Chicago, Illinois, U.S.A., 16th March, 1891; 5 years.

*Claim.*—1st. The combination, with the laterally-movable main rail A, of the laterally-movable siding-rail B<sup>1</sup>, rigidly connected to said rail A, at its front end, the fixed siding rail B, the fish plates D and the bolts d connecting said fish-plates and provided with sleeves or thimbles d<sup>1</sup>, said plates passing through suitable slots b, in the movable rail B<sup>1</sup>, substantially as and for the purposes specified. 2nd. The combination, with the laterally-movable crossing rails A and B<sup>1</sup>, rigidly connected at their meeting ends, of the filling A<sup>2</sup>, of wood or other suitable material, secured in the angle between said rails, substantially as and for the purposes specified. 3rd. The combination, with the laterally-movable switch and crossing rails and their operating mechanism, of locking mechanism for securing the same in position, and guard-slides connected to the fixed main and sliding rails between the switch and crossing-rails and controlled by the locking mechanism, substantially as and for the purposes specified. 4th. The combination, with the lock G, link g<sup>2</sup> and bell crank g<sup>1</sup>, of the hand-lever G<sup>1</sup>, connecting rod g, three-armed lever G<sup>2</sup>, transverse rod G<sup>3</sup>, bell-crank lever G<sup>4</sup>, and the slides H and H<sup>1</sup> connected respectively to the three-armed lever G<sup>2</sup> and bell-crank lever G<sup>4</sup>, substantially as and for the purposes specified. 5th. The combination, with the laterally movable switch and crossing rails, of the switch stand and its operating lever, and suitable connecting rods and intermediate levers, the pivots whereby the connecting rods are connected to said levers being adjustable toward and from the fulcrum of the lever, substantially as and for the purposes specified. 6th. The combination, with the laterally-movable switch rails C and their operating lever, of the connecting rods, the intermediate lever F, provided with slots j, the blocks J mounted in said slots and adjustable therein, securing devices for said blocks and the pivots i and i<sup>2</sup> mounted in said blocks, substantially as and for the purposes specified.