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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 25,676. Revolving Cultivator. (Scarificateur Tournant.)

John P. B. Campbell, Rockville, Ind., U. S., 8th January, 1887; 5 years.

Claim—1st. The combination, in a revolving cultivator, of a fixed frame, a horizontal circular frame pivoted to the said fixed frame, teeth swivelled in the said circular frame, and stop arms and pins, whereby the said circular frame will be made to revolve, causing the part of the said circular frame next the row of plants to move faster than the advance of the cultivator, as set forth. 2nd. In a revolving cultivator, the combination, with the radial arms, of the pivoted circular frame A, B, and the teeth H having rearwardly-projecting blades, of the stop arms J and pins K, substantially as herein shown and described, whereby the blades of the teeth, upon one part of the circular pivoted frame, will engage with the ground, and the blades of the teeth, upon the outer part of the said circular pivoted frame, will swing back and cause very little obstruction of the said frame, as set forth. 3rd. In a revolving cultivator, the teeth H made substantially as herein shown and described, with projecting blades on their lower ends, and with or without spring coils on their shanks, whereby the said teeth, when in one position, will be obstructed by the soil, and when in another position can move through the soil freely, as set forth. 4th. In a revolving cultivator, the combination, with the radial arms A, of the pivoted circular frame and the teeth H, of the stop arms J having eyes, and the stop pins K, substantially as herein shown and described, whereby the said teeth will be turned successively into position to be obstructed by the soil and then allowed to swing back, as set forth. 5th. In a revolving cultivator, the combination, with the rear bar D, of the fixed frame and the arm N attached to the said rudder shaft, the bent handle bar P and the spiral spring Q placed upon the said rudder shaft, substantially as herein shown and described, whereby the said revolving cultivator can be readily guided and controlled, as set forth. 6th. In a revolving cultivator, the combination, with the curved and slotted forward end of the front bar E, of the fixed frame of the draw-bar F, having a correspondingly curved rear end, and the bolt S, substantially as herein shown and described, whereby the point of draft attachment can be readily raised or lowered, as set forth.

No. 25,677. Machine for Slitting Metallic Lathing Sheets. (Machine à Fenêtrer les Feuilles Métalliques à Claire-Voie.)

Edward Tunstead and Josiah W. Moore, Minneapolis, Minn., U. S., 8th January, 1887; 5 years.

Claim—1st. In a machine for making metallic lathing material, the combination of a bed-plate having an elongated slot, with a slitting blade pivoted at one end to the bed-plate, said blade being less thick than the width of the slot, and having a doubled bevelled edge, as described, for cutting slots in the sheet of metal and bending the edges of the slits down into the slot. 2nd. A metallic lathing sheet, having a series of closely-arranged indented slots extending across the sheet from points near its edges, and having the indented metal standing out at about right angles to the surface of the sheet.

No. 25,678. Cattle Pen. (Parc à Betail.)

Edward T. Holton, Plains, Va., U. S., 8th January, 1887; 5 years.

Claim—1st. A pen for cattle, consisting of a series of stalls divided

by swinging partitions, said partitions provided at their free ends with latches *d*, in combination with a stationary bar *E* and a horizontally movable bar *E'*, having pivoted strips *F*, as and for the purpose intended, substantially as described. 2nd. A cattle pen divided into stalls by swinging partitions *D*, each partition supplied with a locking device *d*, in combination with a series of strips *F* pivoted to the stationary bar *E*, and a horizontally movable bar *E'*, said strips being adapted to be engaged with said locking devices when the bar *E'* is moved in one direction and released by its movement in a contrary direction, as and for the purpose intended, substantially as described. 3rd. In a cattle pen partition, locking and releasing device, the stationary bar *E* attached to uprights *B*, having notches *de*, in combination with the horizontally movable bar *E'*, provided with orifices *c* and a locking device, said bar being connected by a series of pivoted strips *F*, said strips having upwardly-extending detents *fz*, as and for the purpose intended, substantially as described.

No. 25,679. Suspension Device for Match Safes, Card Receivers, etc. (Appareil de Suspension des Porte-Allumettes, Plateaux, etc.)

Max L. Mueller, Schandaw, Germany, 8th January, 1887; 5 years.

Claim—1st. The suspension device for suspending articles on dressing apparel, consisting of a receiver *a*, with plate *b* and slide *c*, substantially as and for the purpose hereinbefore set forth. 2nd. The needles *d* attached to the slide *c*, and raised or lowered by means of it, substantially as and for the purpose hereinbefore set forth. 3rd. The openings *e*, into which the material of the dress is pressed and made fast by the needles, all substantially as and for the purpose hereinbefore set forth.

No. 25,680. Index. (Index.)

The Schlicht and Field Company, Toronto, Ont. (assignee of Paul J. Schlicht, Rochester, 1887; 5 years.

Claim—1st. The herein described indexed name-book, having first, the marginal, alphabetical index of leading names 1, second, the subdivision indexes of surnames 2 on the margin of the pages indicated by index 1, and, third, the page sections or subdivisions 3 containing in alphabetical order the initial letter of given names, or the second name or word of firms, corporations, etc., whereby the searcher is enabled to select, instantly, not only a given surname, but a surname with given initials.

No. 25,681. Dust Guard for Car Axle Box. (Garde-Poussière pour Boîte à Graisse.)

John A. White (assignee of Abe L. Cushman), Concord, N. H., U. S., 8th January, 1887; 5 years.

Claim—In a dust-guard, the combination of a casing *B*, having four receptacles for holding the dust guards *d*, *d*, *d*, and the guards operated by springs *c*, *c*, *c*, toward the centre of the axle *D*, to take up the wear of the guards, as set forth and described.

No. 25,682. Bustle. (Tournure.)

The Canfield Rubber Company (assignee of Henry O. Canfield), Bridgeport, Conn., U. S., 8th January, 1887; 15 years.

Claim—1st. In a bustle, the combination, with a pair of side strips, of a series of springs, bars having their ends laced to the side pieces, substantially as set forth. 2nd. In a bustle, the combination, with a series of horizontal springs, bars loosely secured to side pieces, of a diagonal spring bar loosely secured to the said side pieces, and its bow extending above the upper horizontal bar, substantially as set forth. 3rd. In a bustle, the combination, with a pair of side strips, provided with perforations in their ends and a tape or lacing adapted to secure the ends of the spring bars to the side strips in swinging adjustment, substantially as set forth. 4th. In a bustle, the combination with a set of spring bars secured to side strips in swinging adjustment, of a tape connecting the crowns of the several bars with the top band, a spacing bar connecting the lower horizontal bar with a bar above it, and diagonal springs connecting one of the bars above the lower bar with the lower ends of the side pieces, whereby the