No. 17,288. Apparatus for Changing and Storing Photographers' Back Grounds and other Movable Scenery. (*Apparatus pour changer et emmagasiner les fonds de photographie et autres décors mobiles.*

Charlotte F. Lindop, (Assignee of William E. Lindop,) Saint Thomas, Ont., 16th July, 1883; 5 years.

Claim.—1st., A series of stalls *i* adapted for storing photographers' back grounds and other scenery, and having rails or ways on which to run the back grounds or other scenery in and out, in combination with a gate having ways to correspond with the ways of the stalls and capable of swinging from one to the other, and with back grounds or other scenery provided with rollers and adapted to roll along the ways of the stalls and the gate, substantially as described. 2nd. The combination of flexible back grounds *d* with the stalls and gate, the stalls being curved to change the direction of the back grounds, substantially as described. 3rd. The gate *a b* for supporting and changing the backgrounds arranged on a double-jointed hinge *f g h* in combination wtth a series of stalls for storing the back grounds, the said backgrounds, gate and stalls being arranged for rolling the backgrounds along the gate and stalls, substantially as described. 4th. The combination of a spring *m* with the double-jointed hinge *f g h* and gate *a* b, substantially as described.

No. 17,289. Improvements in Hand Cars.

(*Perfectionnements aux chars à bras.*)

The Sheffield Velocipede Car Company, (Assignee of George S. Sheffield,) Three Rivers, Mich., U.S., 16th July, 1883; 5 years.

Claim.—1st, In combination with the walking beam of a hand car provided with a central rock shaft hole, a rock shaft adapted to pass through the hole in the beam, these two parts being secured together adjustably and detachably by means of a thread on the rock shaft and a clamping nut, as set forth. 2nd. In combination with the walking beam of a hand car, a turned wrist pin rigidly attached thereto, and a pitman provided with a head or plate, a journal box formed of two parts, an approximately U-shaped bar X and nuts Y, as and for the purpose set forth. 3rd. A main driving-gear for a hand-car provided with a radial recess for the crank arm, as set forth. 4th. The combination, with the main driving gear, of a cross-bar Z and lugs A forming a recess for the crank arm, as set forth. 5th. The combination, with the brake-shoes and toggle-levers, of a foot-rod provided with a retracting spring and having a step upon which the weight of a person may be thrown, so as to brake both front and rear wheels at one side of the car, as and for the purpose set forth.

No. 17,290. Improvement in the Manufacture of Oleomargarine Butter.

(*Perfectionnement dans la fabrication du beurre d'oléomargarine.*)

John Hobbs, Boston, Mass., U,S., 16th July, 1883; 5 years.

Claim—1st. The described process for the manufacture of artificial butter which consists in mixing what I call "vegetable stearine" or "margarine," obtained substantially as described, with what is called "animal oleomargarine," and emulsionizing the said mixture with milk, cream, or other watery fluid. 2nd. The described product which consists of the compound of vegetable stearine or margarine, with what is known as "animal oleomargarine."

No. 17,291. Improvements in Sleds.

(*Perfectionnements dans les traîneaux.*)

Albert Sanford, Oshkosch, Wis., U.S., 16th July, 1883; 5 years.

Claim.—1st. The combination, with the runner, of the plate *b* made broader than the runner and having the central projection, the plate *c* on the under side of the beam having the cavity corresponding to the projection on the plate *b*, and the cut-away portions *c*ı for the accommodation of the pins *p p*, the beam having the grooves *g g* in its sides, and the pins *p p* for holding the parts together, substantially as described. 2nd. The ball *f* in combination with the plate *p* and the runner, substantially as described for the purpose specified.

No. 17,292. Improvements in Sash-Holders.

(*Perfectionnements aux arrête-croisées.*)

William C. Carson, Denton, Texas, U.S., 16th July, 1883; 5 years.

Claim.—In a window-sash lock, the combination of the following elements, *viz.*, a revolving locking block spirally grooved on its face and mounted centrally in a frame having seats or grooves for its journals, and a locking plate fitting into the said frame directly under said locking block, and adapted to be thrust out or in by the action of the spiral groove in said block, on the upwardly projecting centrally placed spur on said plate, said spur coming directly under said blocks, all as set forth.

No. 17,293. Improvements in Clothes Pins.

(*Perfectionnements aux épingles américaines.*)

Michael B. O'Neill, Windsor, N.S., 16th July, 1883; 5 years.

Claim.—1st. A clothes pin having two slits, each having a flaring mouth and tapering narrower towards the top, leaving a comparatively thin and flexible tongue B between comparatively stiff and solid sides *d e*. 2nd. A clothes pin having two slits to receive respectively the clothes line and the article to be suspended therefrom without the latter being hung over or wrapped around the line. 3rd. The combination of a clothes pin A having a central flexible tongue B and comparatively stiff sides *d e* produced by a wide slit *a* and a narrow slit *b*, both slits having flaring mouths and tapering upwards, all substantially as described and for the purpose set forth.

No. 17,294. Automatic Lamp Extinguisher.

(*Eteignoir automate des lampes.*)

William H. Kimball, Boston, Mass., U.S., 16th July, 1883; 5 years.

Claim—1st. A self-extinguishing lamp consisting of a reservoir having a vertically adjustable wick-tube provided with a numbered scale, whereby it may be adjusted with reference to the cap plate through which it works, so as to indicate the position of the tube in the oil reservoir and the corresponding number of hours the lamp will burn, substantially as and for the purpose set forth. 2nd. The combination, with a reservoir A and burner B, of the vertically adjustable screw-tube E surrounding the lower portion of the wick-tube and provided with a scale, whereby the exact depth of the wick-tube in the oil reservoir may be indicated, substantially as described for the purpose set forth. 3rd. The combination, with the reservoir A and burner B, of the cap plate or collar plate provided with the pin C, and screw-threaded tube E surrounding the lower portion of the wick-tube and provided with a scale ranging from zero to the highest number of hours the lamp is adapted to burn, substantially as and for the purpose shown and described.

No. 17,295. Improvement in Nut-Locks.

(*Perfectionnement des arrête écrous.*)

Michael Angelo W. Meagher, New York, N. Y., U. S., and James C. Anderson, Winnipeg, Man., 16th July, 1883; 5 years.

Claim.—A nut-lock having a body composed of wire having three sided loops, in combination with a flexible cap wire consisting of a spiral spring in the middle, as set forth.

No. 17,296. Medicinal Compound.

(*Composé médécinal.*)

George F. Day, Musquodoboit Harbor, N.S., 16th July, 1883; 5 years.

Claim.— The described composition of materials to be used for the cure of asthma, hay fever and all pulmonary diseases, consisting of iodide of potassium, tincture of lobelia, etherial tincture of lobelia, tincture of assafœtida and syrup, in the proportions specified.

No. 17,297. Improvements on Pillow Sham-Holders. (*Perfectionnements aux porte-faux oreillers.*)

Augustus H. Phelps, East Saginaw, Zephaniah S. Moore and James Neden, Jackson, Mich., U.S., 16th July, 1883; 5 years.

Caim.—1st. The rod or shaft B consisting of sections C having slots D, in combination with the sleeve E and set-screws F, as set forth. 2nd. The shaft B consisting of a sleeve E and adjustable or extensible sections C having bails G, in combination with the frame H consisting of bars I and adjustable connecting straps J having hooks K, substantially as set forth. 3rd. The spring hinge or holder L consisting of the arm N having loops O, hook P, eye Q, spring R and spring finger S, all substantially as set forth. 4th. The described improved device for holding pillow shams consisting essentially of the spring hinges or holders L, a shaft B having pins T and bails G, and the swinging frame H, all substantially as and for the purpose set forth.

No. 17,298. Improvement in Mowing Machines. (*Perfectionnement des faucheuses.*)

William Gause and John H. Bass, Fort Wayne, Ind., U.S., 16th July, 1883; 5 years.

Claim.—1st. The tubular main frame with its casing for enclosing the main driving-gear, in combination with the pivoted sleeves and shoe brace connecting the cutting apparatus with said frame, substantially as described. 2nd. The tubular main frame surrounding the main axle, in combination with the crank-shaft casing sleeve G1 hinged thereto, in line with the secondary or pinion shaft, the shoe-sleeve G2 hinged to said crank-shaft casing sleeve, the hinged tongue and the levers for adjusting said frame sleeves and cutting apparatus, substantially as described. 3rd. The sleeve to which the inner shoe of the cutting apparatus is connected provided with the internal gear, in combination with the pinion on the crank-shaft wrist for actuating the sickle-bar, substantially as described. 4th. The crank-wrist which actuates the sickle-bar attached to a pinion on the crank-shaft, in combination with the internally geared sleeve surrounding said shaft for actuating said pinion and crank-wrist, whereby the latter is adapted to move in right lines, for actuating the sickle-bar, substantially as described. 5th. The reciprocating sickle-bar in combination with an actuating crank-wrist connected with said bar, and mechanism for operating said crank-wrist, whereby the latter is reciprocated in right lines, substantially as described. 6th. The travelling pinion on the crank-shaft wrist, in combination with the crank-pin with which the sickle-bar is connected, secured to said pinion by ball and socket joint, substantially as described. 7th. The travelling pinion on the crank-shaft wrist provided with a crank-pin for actuating the sickle-bar, in combination with the swivelling rod connecting said crank-pin with the sickle-bar head, substantially as described. 8th. The travelling pinion for actuating the sickle-bar, in combination with the internally cogged-sleeve for actuating said pinion, and a cap or head for covering and protecting said pinion and sleeve, substantially as described. 9th. The crank-shaft sleeve hinged to and adjustable around the secondary shaft, in combination with the sleeve to which the inner shoe is connected, pivoted to and turning upon the crank shaft sleeve, the hinged brace connecting the shoe with the tubular main frame and the hinged pole or tongue, substantially as described. 10th. The casing sleeve or yoke G on said sleeve provided with a lever arm with which the draft rod is connected, in combination with the pivoted shoe-brace connected with said arm, substantially as described. 11th. The tongue-brace and seat support provided with the tool-box, and a pivotal support for the lifting lever formed in one piece, substantially as described. 12th. The combination with the main drive-wheel axle, of the tubular casing frame C, the crank-shaft casing sleeve G1, the sleeve G2 to which the shoe is