

inner edge for the end of the latch D to catch in, whereby the latch D is held in a raised position, so that both hands can be applied to opening the door.

No. 14,544. Improvements on Churn Powers.
(*Perfectionnements aux mécanismes des barattes.*)

Thomas W. Hogsett, Edray, W. V., U.S., 5th April, 1882; for 5 years.

Claim.—1st. The combination with the dasher staff B of the lever D, the rod G pivoted thereto, the longitudinally and vertically adjustable lever L, the spring A and the table E.

No. 14,545. Improvements in the Manufacture of Hydraulic Cements.
(*Perfectionnements dans la fabrication des ciments hydrauliques.*)

William H. Hughan, Winnipeg, Man., 5th April, 1882; for 5 years.

Claim.—1st. The process of manufacturing hydraulic cement by amalgamating calcareous mud or clay with peat, human excreta, animal manure or garbage, or like material (which, when burnt, will yield salts and phosphates) with water to a plastic state in a pug or other suitable mill, then forming the mass into blocks or bricks, then drying said blocks or bricks and calcining them to ashes for use as a cement. 2nd. In hydraulic cement produced by the calcination of an admixture of calcareous clay or mud, garbage, excreta, manures, peat (or other like refuse which, when burnt, will yield phosphates and salts) prepared in the manner set forth.

No. 14,546. Improvements on Cultivators.
(*Perfectionnements aux cultivateurs.*)

David O. Everest, Pine Grove Mills, Mich., U. S., 5th April, 1882; for 5 years.

Claim.—1st. In combination with a supporting frame F, a spring having its two free ends adapted to admit of an attachment thereto, of a ploughing or cultivating tooth or blade. 2nd. In combination with the frame of a harrow plough or cultivator, a spring attached between the free end to said frame, the free ends of said spring adapted for the attachment thereto of a plough blade or cultivating tooth. 3rd. The curved spring E attached at a point between its ends to a suitable frame, in combination with the link D or its equivalent and a plough blade or cultivator tooth.

No. 14,547. Improvements on Ear Mufflers.
(*Perfectionnements aux garde-oreilles.*)

Chester Greenwood, Farmington Falls, Me., U.S., 5th April 1882; for 5 years.

Claim.—1st. The lugs G having a long leg H, springing against the body A and having an inwardly turned point engaging with a depression I in the body A, whereby the two parts are automatically locked. 2nd. In combination with the frames C having bends or angles $\alpha \alpha$, the link I bridging the opening formed thereby.

No. 14,548. Improvements on Egg Beaters.
(*Perfectionnements aux verges à œufs.*)

Charles Deis, Buffalo, N. Y., U. S., 5th April, 1882; for 5 years.

Claim.—A baker's egg, sugar and cake beater composed of, and combining the shaft *d* having wire whips *i i* thereon, operated by cog wheels *f g* and crank *h*, the box A A' with rounded bottom *a* and a water space *c* between the outer wall or case *b*, and inner wall and bottom *b*.

No. 14,549. Improvements on Car Axle Boxes.
(*Perfectionnements aux boîtes à graisse des chars.*)

George E. Yost, Theresa, N. Y., U. S., 5th April, 1882; for 5 years.

Claim.—1st. In combination with the journal A and box B, the frame *a* provided with ears *b b*, the spring arms *c c* fixed to said ears and extended diagonally across the journal box B, and carrying respectively at opposite sides of the journal, the mandrel *m*, and the rollers *r* journaled on said mandrel, and provided with the endless chain *e*. 2nd. The combination, with the frame *a* supporting the rollers *r r*, with their lubricating chain *e*, of the bail formed of sections *d d* and *f*, the latter of which is provided with the diagonal bars *f f* across the front opening of the journaled box B. 3rd. The yielding material D applied as described.

No. 14,550. Improvements on Tube Cleaners.
(*Perfectionnements aux nettoyeurs des bouilleurs.*)

John Harley, Bothwell, Ont., 5th April, 1882; for 5 years.

Claim.—The spoon A constructed with a dovetailed groove D and provided with scraper E, in combination with the coil spring B.

No. 14,551. Improvements in Gate Hangings.
(*Perfectionnements aux pentures des barrières.*)

William G. Alexander, Oskaloosa, Iowa, U. S., 5th April, 1882; for 5 years.

Claim.—In a gate hanger, the angle plate C having pivoted thereto the bolt *e*, with lug *f*, in combination with the disk D formed with slot *i* and shoulder *d*, the rollers E and disk F formed with lugs *m*.

No. 14,552. Improvements on Churns.
(*Perfectionnements aux barattes.*)

John Bennett, Lucknow, Ont., 5th April, 1882; for 5 years.

Claim.—1st. A working dash so constructed and operated that when

the valves are closed it will contain no openings for the passage of cream through it, and will correctly fill the dash chamber in the churn. 2nd. The division of the space within its wall into two chambers (except as at *r*) by means of a partition, in combination with a dash so fitted and operated that it will push the cream from one chamber through the other. 3rd. A sliding and removable partition so disposed in the churn frame, that there will be beneath and in the rear of it, a space sufficient for the passage of the cream impelled by the dash, said partition having an opening through its upper end, and guarded by a chute plate placed at a short distance in the front of the opening, leaving a space between, for the passage of the cream from the supplemental chamber to the dash chamber. 4th. The partition slide O with semi-circular convex edges and furnished with the opening α , cap *u*, cleat *p*, chute plate L and curved cleats *v v*, in combination with the grooved churn frame, and churn cleat *v* on which it finds a seat. 5th. In combination, the churn staff *j*, dash head *h*, sides *i i*, valves *j j*, stops K K and K'. 6th. The churn staff *j*, dash head *h h*, sides *i i*, valves *j j*, stops K K and K', in combination with the operating lever *m*, churn walls *a* and the sliding partition *o*. 7th. The sheet metal bottom plate *b* with a rim, in combination with the churn frame and bottom board *c*. 8th. The inclined cover for the purpose described.

No. 14,553. Improvements on Stirrup Fastenings.
(*Perfectionnements aux assemblages à crémaillère.*)

William H. Kirby, Warsaw, Ky., U. S., 5th April, 1882; for 5 years.

Claim.—A stirrup fastening or angular band having two sets of opposite rectangular loops arranged in planes at right angles with each other, and consisting of straps having longitudinal grooves or ridges, and broad bearing arms connecting said straps.

No. 14,554. Improvements on Reaping and Mowing Machines.
(*Perfectionnements aux faucheuses-moissonneuses.*)

Frederick J. Hazard and Thomas Fuller, Belleville, Ont., 5th April, 1882; for 5 years.

Claim.—1st. The combination of the straps P, pins Q and *q*, rubber R, tube bearings S and elongated guards N, with the finger bar G and knife bar O producing the draw-and-push cut. 2nd. The combination, in a reaping or mowing machine, of a long stroke with the draw-and-push cut.

No. 14,555. Improvements on Curing Rubber Coated Fabrics.
(*Perfectionnements dans la préparation des tissus caoutchoutés.*)

Henry W. Burr, Cambridgeport, Mass., U. S., 5th April, 1882; for 5 years.

Claims.—1st. The improvement in the art of curing rubber coatings applied to fabrics, by subjecting them to the action of the electric light. 2nd. The art of curing rubber coatings on fabrics by subjecting said coating to the action of the electric light, whilst said fabric is in motion through the field of illumination of such light. 3rd. The manufacture of rubber-coated fabrics, by applying the rubber coating in successive layers while the fabric is moving through the coating machine, subjecting such coating to the action of the electric light during such movement, and curing the rubber by means of said light before removal from said machine. 4th. An apparatus for curing rubber coatings on waterproof fabrics consisting of one or more electric lights and mechanical means for moving the rubber-coated fabric through the field of illumination. 5th. The frame, the carrying rollers B B' adapted to support and move the fabric C, and the calender rollers D D', in combination with the electric lights L and suitable reflectors N. 6th. The combination of the electric lights L and the glass shield M.

No. 14,556. Method of Keeping Milk, Cream and Butter.
(*Méthode de conservation du lait, de la crème et du beurre.*)

James F. Ferguson, Essex, Vt., U. S., 5th April, 1882; (Extension of Patent No. 7422.)

No. 14,557. Improvements on Overalls, Pantaloon, &c.
(*Perfectionnements aux pantalons de voyage et autres, &c.*)

Augusta Feder, Lee S. Warner, Ludwig A. Warner, Edmund Jellinek and Ludy A. Warner. (Assignees of Simon Feder,) Buffalo, N. Y., U. S., 5th April, 1882; for 5 years.

Claim.—1st. In overalls and analogous articles, a fly and the front portion of said overalls, made integral, or all cut from one and the same piece, thereby forming a continuous fly and a seamless crotch. 2nd. In overalls, the leg portions *a* and *a'* and the continuous strip portions *f f'*, all cut from one and the same piece of material, and adapted to be folded as described.

No. 14,558. Improvements in Machinery for Weaving Cane.
(*Perfectionnements aux machines à tresser le jonc.*)

John S. Ford, Henry W. Johnson, Reuben A. Hitchcock, Henry H. Ford, Sarah W. Ford and Mary E. Ford, Michigan City, (Assignees of Hans E. Tylander, Chicago,) Ill., U. S., 8th April, 1882; for 5 years.

Claim.—1st. In a loom, a roller having teeth set at uniform distances around its periphery, for a part of its length, in combination with a spring pawl, arranged to lock between the teeth by its own elasticity, mechanism under the control of the operator for drawing the pawl from between the teeth, a weight arranged to turn the roller