threaded turning and rooking adjusting rod, the finger beam supported thereby and provided with the threaded lug in which the rod works turn and the provided with the threaded lug in which the rod works turn and the provided with the threaded lug in which the rod works turning the sleeve to rook the rod. The provided with the finger beam and guided in its rocking movements, the sleeve on the rod and means for turning the sleeve to rook the rod. The rook has an adventing grain defection. The combination of the rake head and the inclined grain defection, the provided with the loop and shank by which to attach it to the rake head. 8th. The combination of the state and roll or roller prisoverhanging support and the trip lug Rs of the oscillating rake head acted upon by said roller to rock the rake teeth downward. 9th. The combination of the rake standard, the roller mounted on the overhanging arm, the roller outside of the rake head, the hinged rotating rake carrying arm, the spring acting to rock up the rake teeth or to turn down the rake teeth, preparatory to entering the stranding grain job. The combination of the rake head, the hinged rotating rake carrying arm, the roller marked the roller the roller outside of, or beneath the cam track. Ith. The combination of the rake teeth are sustained in their elevated position, and direct the roller outside of, or beneath the cam track. Ith. The combination of the rake head, the oscillating bracket by which the spring, by which the roller act and the roller actuated trip lug on the bracket. 12th. The bracket Q provided with the bearings to fit upon the rake carrying arm and having the roller actuated trip lug on the bracket. 12th. The combination of the rake head, the oscillating bracket to which it is secured, the bracket head, the roller actuated trip lug of the bracket by which the rake carrying arm, the bracket of the bracket, abutting are

No. 16,338. Improvements on Knife Scourers (Perfectionnements aux nettoyeurs de coutellerie.)

Cyrus Kinner, Windsor, Ont., 20th February, 1883; for 5 years. Claim.—The elastic scouring and polishing cylinders C C C1 interposed between the plates B B1.

No. 16,339. Improvements in Box Piling. (Perfectionnements dans la mise en paquets.)

Edward G. Scovil, Coldbrook, N. B., 20th February, 1883; (Extension of Patent No. 8450.)

No. 16,340. Improvements on Wire Fences. (Perfectionnements au c clôtures en fil de fer.)

Adélard F. Martel, James McPherson, Montreal, Que., Alexander F. McIntyre and John P. Lewis, Ottawa, Ont., 20th February, 1883; for 5 years.

for 5 years.

Claim.—1st. In a wire fence and in combination therewith, the notched posts and fence wires, the binding wires D bent half way around, or passed through the posts and half way around the fence wire, at a distance apart corresponding to the diameter of the post, the ends of the binding wire then returned to the back of the post and twisted together, whereby the binding wire exerts a double tension on the fence wire to bind it to the post, and the ends of the wire are conjoined by twisting to fasten the fence wire to the post. 2nd. A fence post of tubular wrought iron slotted diametrically and longitudinally, and inserted ground plates FF bent to a right angle, the angles arranged to be diametrically opposite, and posts and plates secured together by a rivet E. 3rd. A fence post of tubular wrought iron provided with a conical plug or wedge G inserted in the bore, to spread the foot of the post when driven into a hole bored in a rock for holding the post fixedly. holding the post fixedly.

No. 16,341. Improvement on Whiffletree Hooks. (Perfectionnement des crochets des palonniers.)

Nathan Hill, Bravo, and John G. Todd, Bangor, Me., U. S., 20th February, 1883; for 5 years.

Claim—1st. In combination with the shank of a whiffletree hook, the longitudinal ribs, or bars E. 2nd. The whiffletree hook consisting of the ferrule A. rigid hook B, catch or barb D and the ribs, or bars E, all constructed of a single piece of metal.

No. 16,342. Improvements on Butter Packages. (Perfectionnements aux boîtes à beurre.)

James Tomlinson, Chatham, John M. A. Laing, William Laing and James Lozie, Essex Centre, Ont., 20th February, 1883; for 5 years.

Claim.—1st. In combination with a round wooden box, a loose and removable interior cylinder made of a single thickness of veneer. 2nd. As a means of coating the interior of a wooden box, the sealing compound, composed of paraffine wax and resin.

No. 16,343. Improvements in Water Meters. (Perfectionnements aux hydromètres.)

Parker Wells, Lynn, Mass., U. S., 20th February, 1883; (extension of patent No. 16,141.)

No. 16,344. Improvements in Water Meters. (Perfectionnements aux hydromètres.)

Parker Wells, Lynn, Mass., U. S., 21st February, 1883; (extension of patent No. 16,141.)

No. 16,345. Improvements in Horse Headlights. (Perfectionnements des lanternes à la téte des chevaux.)

Ernest F. Pflueger, Akron, Ohio, U.S., 21st February, 1883; for 5 years.

Claim.—1st. A plate of metal, or other suitable material, provided with devices for attaching it to the bridle or harness of the horse, and coated with a paint composed of sulphide of calcium and a siceative oil or paint varnish. 2nd. A new article of manufacture, consisting of a plate of metal, or other suitable material, adapted to be attached to the bridle or harness of a horse, and covered with a substance which is luminous in the darkness.

No. 16,346. Improvement on Reciprocating Saw Mills. (Perfectionnement des scieries alternatives.)

Theodore S. Wilkin, East Saginaw, Mich., U. S., 21st February, 1883; for 5 years.

Claim.—A reciprocating gate, or sash 20, in combination with a long pendulum 2 hung to the gang frame 1 and carrying the upper gang slider 3, the lower end of the short pendulum gang slides 5 pivoted near the lower end of the long pendulum and attachably connected at upper end to main gang frame 1, by link 7 and pins 8 9 or other suitable connections, to allow a compensating movement of the upper end of lower gang slides, whereby the swinging of the lower end of pendulum causes slides 5 and 3 to advance the saws toward the log on the downward stroke, and recede them from the log on the upward stroke to eleven the saws. stroke to clear the saws.

No. 16,347. Improvements on Board Measures. (Perfectionnements aux mesures de bois.)

Emanuel Andrews, Williamsport, Penn., U. S., 21st February, 1883; for 5 years.

Claim.—lst. A board-rule measure of spring metal made of increasing flexibility toward the head. 2nd. A board-rule measure of spring metal having a head with cutting edges secured to the same by a clamp, which locks the head on both sides, and also serves to secure it to the outer end of the board.

No. 16,348. Improvements on Bottle Stoppers. (Perfectionnements aux bouchons des bouteilles.

John M. Lewin, Lockport, N.Y., U.S., 21st February, 1883; for 5 years.