

**No. 10,780. Improvements in Boots and Shoes.** (*Perfectionnements dans les chaussures.*)

James Popham and James Linton, Montreal, Que., 10th January, 1880, for 5 years.

*Claim.*—1st. As a new article of manufacture, a boot or shoe having the pieces forming the upper joined together by rubber cement and a continuous line of rivets.**No. 10,781. Improvements on Gates.** (*Perfectionnements aux barrières.*)

Goodson J. Alford, Bastard, Ont., 10th January, 1880, for 5 years.

*Claim.*—1st. The combination of levers *l*, lever rods *O*, jack *T* and suspending rods *R*.**No. 10,782. Improvements on Horse Collars.** (*Perfectionnements aux colliers de cheval.*)

Valentine Forester, Craubrook, Ont. (Assignee of Samuel C. Welty, Ligonier, Ind., U. S.), 10th January, 1880, for 5 years.

*Claim.*—1st. The sheet zinc lining *F* constructed in two parts, made into form to correspond to the shape of the right and left sides of the collar in contact with the skin of the horse, and attached permanently or removably by lacing, screws or other means to the collar.**No. 10,783. Improvements in the Process of Preserving Butter.** (*Perfectionnements dans le procédé de conservation du beurre.*)

Thomas F. Wilkins, London, Eng., 10th January, 1880, for 5 years.

*Claim.*—1st. The process of preserving butter by mixing, blending and incorporating therewith Glacial Metaphosphoric Acid, in solution or in a solid crushed state.**No. 10,784. Improvements on Bobbins.** (*Perfectionnements aux bobines.*)

Oscar E. Wait, Woonsocket, R. I., U. S., 10th January, 1880, for 5 years.

*Claim.*—1st. A wooden bobbin having two or more sets of scores distributed over the sides of the barrel, with the scores in each set on different transverse planes; 2nd. A wooden bobbin having two or more sets of diagonal or oblique scores in the sides of its barrel.**No. 10,785. Improvements on Scythe Snaathe Fixtures.** (*Perfectionnements aux araires des manches de faux.*)

Samuel Hayward, St. John, (Assignee of William A. Pitt, Kingston), N. B., 10th January, 1880, for 5 years.

*Claim.*—1st. The arrangement of the notch or niche in the nib-loop *C* into which the wedge *d* fits, and the grained one-half inch pipe, the object of the grain being to enable the wedge *d* to settle in it; 2nd. The combination of the heel ring *e*, the nut *g*, the screw bolt *f* and clamp *h* with the snathe *a*.**No. 10,786. Process of Cleaning Bolting Cloth.** (*Procédé de nettoyage de l'étamine.*)

Aaron Graham (Assignee of William H. Moses), Shawsville, Va., U. S., 10th January, 1880, for 5 years.

*Claim.*—First, shaving the nap or beard off the outside of the cloth; next, removing the particles adhering to the inside, by brushing, and, finally, dry sponging the cloth.**No. 10,787. Process for Curing and Preparing Finnan Haddies for Canning.** (*Procédé de conservation de la morue fumée.*)

Edward W. Potter, Smith's Cove, and Edwin R. Oakes, Digby, N. S., 10th January, 1880, for 5 years.

*Claim.*—1st. The use of lime water or lime and water *A B C D*; 2nd. The short method of curing; 3rd. The use or introduction of steam ovens *G I K*; 4th. The addition of the liquor extracted from the fish and condiments.**No. 10,788. Improvements on Sick Room Lamps.** (*Perfectionnements aux lampes pour les chambres des malades.*)

Thomas T. Johnston, Molesworth, Ont., 10th January, 1880, for 5 years.

*Claim.*—1st. The combination, with lamp *P*, of standard *D* attached to pedestal *B* by brace *E* and elevated or depressed by adjustment wheel *G*; 2nd. The application of ring *G* on brace *F*, which is formed or attached to standard *D*; 3rd. The application of heater *I* kept down by spring *L* and hinged to standard *D* at *J*; 4th. The application of dryer *N* attached to bottom *K* of heater *I*.**No. 10,789. Improvements on Seal Locks** (*Perfectionnements aux serrures scellées.*)

George M. Patten, Holbrook, Mass., U. S., 10th January, 1880, for 5 years.

*Claim.*—1st. The combination of the hasp or bolt *A*, means for locking and sealing the same simultaneously, and a lever *G* adapted by its movement to unlatch the lock after the destruction of the seal; 2nd. The combination of the bolt or hasp *A*, the tumbler catch *B* adapted to automatically lock the bolt or hasp, a seal locking device consisting of the lever *D*, a locking bar *E* and a lever *G*, whereby upon the insertion of the seal and the closing of the lock, the seal is confined between the locking bar and the seal supporting lever, and the lever *G* locked and whereby, upon the destruction of the seal upon the movement of the lever *G*, the tumbler catch is thrown back and the bolt released; 3rd. The combination of the seal supporting lever *D*, adapted to be locked in position, after the insertion of the seal by the locking bar *E*, with the lever or binged key *G* arranged to be locked by thelocking of the seal supporting lever *D*; 4th. The combination of the tumbler catch *B*, with means for locking the same and the lever *G*, a seal *F* whereby, upon the closing of the lock, the seal locks the tumbler catch and the lever, and whereby, upon the destruction and removal of the seal, the lever may be operated to move the tumbler catch and disengage it from the bolt or hasp; 5th. A lever *G* adapted to be held stationary, between the seal supporting lever and the tumbler catch, upon the insertion of the seal and the closing of the lock by the seal, and upon the destruction and removal of the seal adapted to be moved to disengage the tumbler catch from the bolt or hasp; 6th. A device, for unlatching or disengaging the catch from the bolt or hasp, arranged to be permanently fastened to the casing of said lock; 7th. A device for disengaging the tumbler catch from the bolt or hasp adapted to be locked by the seal; 8th. The combination of the seal *F*, lever *G* and tumbler catch *B*, a suitable locking and connecting mechanism, whereby the seal locks the tumbler catch and the lever *G*; 9th. The combination of the seal supporting lever, the seal *F* and its locking device, with the lever *G* provided with a projection *g*, whereby the lever *G* is prevented from being moved by the seal.**No. 10,790. Improvements in Threshing Machines.** (*Perfectionnements aux machines à battre.*)

Christopher Costello, Beverly, Ont., 10th January, 1880, for 5 years.

*Claim.*—1st. The combination of square shank *D* with any form of tooth *A*; 2nd. The combination of cutter *C*, shank *D*.**No. 10,791. Improvements on Electric Lamps.** (*Perfectionnements aux lampes électriques.*)

Thomas A. Edison, Menlo Park, N. J., U. S., 10th January, 1880, for 5 years.

*Claim.*—1st. The manufacture of carbons for electric lights from paper; 2nd. The method of manufacturing carbons for electric lights consisting in exposing the filament of paper to the action of heat in a mould to drive off the volatile portions and carbonize the paper; 3rd. A carbon for electric lights made as a filament, with the ends broader for the clamping devices that connect the conductors; 4th. The clamp, for the carbon of an electric lamp, composed of a bow or elliptical spring with the ends crossing each other, and receiving between them the carbon.**No. 10,792. Improvements on Electric Signals.** (*Perfectionnements aux signaux électriques.*)

Francis Blake, jr., Weston, Mass., U. S., 10th January, 1880, for 5 years.

*Claim.*—1st. In combination with a bell and bell hammer, a pendulum hung as the armature of an electro-magnet, with a suitable device for automatically making and breaking the circuit or varying the strength of the current flowing through the circuit, to which the electro-magnet belongs, at intervals corresponding to the rate of vibration of the pendulum; 2nd. A series of pendulums of different lengths, in combination with a series of bells and electro-magnets, in a common circuit, and a suitable device for making and breaking the circuit, or varying the strength of the current flowing through the circuit at intervals corresponding to the rate of vibration of either pendulum; 3rd. Two pendulums of substantially equal length, one hung as the armature of an electro-magnet and provided with a bell and bell hammer, and the other operating a circuit closer to make and break the circuit containing the electro-magnet at each vibration; 4th. The post *O*, *C*, axis *K* with pendulum suspended therefrom, collar *a*, plate *e*, spring *s*; and thumb screw *t*, in combination with an electric circuit.**No. 10,793. Improvements on Middlings Separators.** (*Perfectionnements aux séparateurs des gruaux.*)

John W. Pyne, Cincinnati, Ohio, U. S., 10th January, 1880, for 15 years.

*Claim.*—1st. A bolt cloth having a compound motion, to wit: a rapid vertical longitudinal and a shaking motion; 2nd. A sieve or riddle, the bolting material of which hangs loosely, so that in the vertically reciprocating motion of the riddle caused by mechanism, a wave motion is given to its bolting surface; 3rd. A sieve or riddle with its bolting material hanging loosely, having a compound motion, to wit: a rapid vertical and longitudinal movement and a wave motion to the bolting material caused by mechanism; 4th. The combination of the casing having a series of openings, at the bottom, for the discharge of the purified material, and an opening at the head end of the casing for the admission of air into the machine, a vertically reciprocating riddle and a suction fan; 5th. The combination, with a vertically moving riddle frame having side journals, of the adjustable boxes having curved slots for communicating a longitudinal motion to said frame; 6th. The combination of the main shaft having a suction fan, pulleys and a crank at each end of the shaft, the pitmans, the riddle frame and mechanism for operating the conveyer.**No. 10,794. Improvements on Non-Conducting Pipe Covering.** (*Perfectionnements aux couvertures des tuyaux non-conductrices.*)

Hugh Burgess, Royer's Ford, Penn., U. S., 10th January, 1880, for 5 years.

*Claim.*—1st. The segmental blocks, consisting of paper pulp or similar fibrous material, in concentric layers, and either alone or combined with saw dust or similar granular vegetable substance; 2nd. The combination of a screen made in halves separable from each other, appliances for rapidly rotating the said screen and a central pipe *E* communicating with a supply of the material to be treated and having a lateral opening or openings *f* within the screen; 3rd. The combination of the screen, means for rotating the same, the pipe *E* having an opening or openings *f*, and devices for withdrawing the pipe longitudinally from the screen; 4th. The combination of the screen with the pipe *E* and its detachable follower *Et*; 5th. The combination of the screen with the pipe *E*, reservoir *F* and the elastic tube *G*, the combination of the screen with the pipe *E*, reservoir *F* and the elastic tube *G*, forming a communication between the said reservoir and pipe; 6th. The combination of the screen and its pipe *E* with transverse partitions; 7th. The combination of the outer screen *A* having transverse partitions, with the inner screen *Y* made in sections, each of which consists of a strip secured to the screen *A*, at one end but free at the other end.