

6th. The combination with the fan and shoe, of the wind-board N, connecting rack and pinion and index arm N<sub>1</sub>, 7th. The combination with the hulling cylinder of the pocket F<sub>1</sub> and hinged door F<sub>2</sub>, 8th. The combination with the hulling cylinder of pocket F<sub>1</sub> the latter formed in the lower front-side of the cylinder casing and provided with h<sub>1</sub> f<sub>1</sub>, 9th. The combination with the fan, shoe and screw I of the wind-board N, vertical rack-bar N<sub>1</sub> and pinion on the shaft carrying index-arm N<sub>1</sub>, 10th. The combination with the wind-board N, of the vertically adjustable pivotal support n, the angularly curved arm provided with slot and clamping screw or pin m, 11th. The combination with the fan and vibrating upper riddle K, of the wind-board N, rack-bar N<sub>1</sub>, pinion N<sub>2</sub> and index arm N<sub>1</sub>, 12th. The combination with the fan and vibrating shoe, of the vertically adjustable wind-board N pivoted at n, and the supporting angular arm provided with curved slot and clamp n, 13th. The band wheel q on shaft, said shaft gearing with, and having a concentric adjustability about the crank-shaft operating the bolts, whereby said band-wheel may serve at once as a belt tightener and to transmit motion to the bolts, 14th. The combination with the frame A of the shoe, located with its upper edge beneath the main sills A<sub>1</sub> and limited to vibrate crosswise of the machine, without either edge passing out from beneath the sills.

**No. 9374. Improvements on Stove-Pipe Ventilators.** (*Perfectionnements aux ventilateurs des tuyaux de poêles.*)

Angus McKay, John McDonald and John Wilson, Sheboygan, Mich., (Assignees of Thomas B. Way, Springfield, Ohio.) U. S. A., 22nd November, 1878, for 5 years.

*Claim*—1st The internal rings c, c, applied as described, 2nd. The internal grooves or seat having the round rings seated therein.

**No. 9375. Improvements on Sad Irons.** (*Perfectionnements aux fers à repasser.*)

John Taylor, St. George, David B. Phillips and James F. Kincaid-Branford, Ont., 22nd November, 1878, for 5 years.

*Claim*—1st. The combination of the hollow-base or body A of the sad iron and the hinged cover or top C, 2nd. The combination of the spring-latch or plate F constructed with non-conducting knob G and latch-spring H on the cover or top C, with the notch on post I; 3rd. The formation of the air-chamber K, between the cover or top C and the spring-latch or plate F.

**No. 9376. Improvements on Coin Packages.** (*Perfectionnements aux enveloppes à monnaie.*)

Charles H. Carpenter, Syracuse, N. Y., U. S. A., 22nd November, 1878, for 5 years.

*Claim*—1st. The prismatic envelope forming a coin package; 2nd. The soft metal rivet x for fastening a coin package, by which the package is so fastened that it cannot be opened without destroying the envelope 3rd. The combination of the index with the opening b in a coin package, by which the coin can be seen and readily counted; 4th. A prismatic coin holder, the contents of which are secured against removal with free access to the coin therein for counting or inspection.

**No. 9377. Improvements on Locks.** (*Perfectionnements aux serrures.*)

Alfred C. Hawley, Chicago, Ill., U. S. A., and Lorenzo U. C. Titus, Belleville, Ont., 22nd November, 1878, for 5 years.

*Claim*—1st. The hasp with a hollow socket and lock mechanism therein; 2nd. The combination of the hasp, socket lock mechanism and cap F, plate A, plate W, stud Y, rivet Z, spring S, socket N, bolts T, key O, studs P P and socket plate e.

**No. 9378. Improvements on Steam Gauges.** (*Perfectionnements aux manomètres.*)

James Morrison, Toronto, Ont., 22nd November, 1878, for 5 years.

*Claim*—1st. A vacuum steam or other pressure gauge in which the index figures or plates are made moveable and adjustable so that the gauge may be adjusted to indicate the true pressure, independently of the spring and movement; 2nd. The combination with the indicating needle of a vacuum-steam or other pressure gauge, of moveable index plates or figures attached to any part of the gauge, such as the case, ring dial or glass, whichever may be found most suitable for the purpose.

**No. 9379. Improvement in Drain Pipes.** (*Perfectionnements dans les tuyaux d'égouts.*)

Alexander G. E. Westmacott, Toronto, Ont., 22nd November, 1878, for 5 years.

*Claim*—In making the pipes in halves with longitudinal joints A of any material, of any size and of any form of cross section for sewerage, water or other purposes, to facilitate the inspection and cleaning off said pipes.

**No. 9380. Improvements on Boot and Shoe Soles.** (*Perfectionnements aux semelles des chaussures.*)

Harry C. Goodrich, Chicago, Ill., U. S. A., 22nd November, 1878, for 5 years.

*Claim*—A boot or shoe sole filled with plugs shorter than the sole is thick inserted from the inside thereof and retained in place by the closing of the material, over and around the heads of the plugs.

**No. 9381. Improvements on Pulleys.** (*Perfectionnements aux poulies.*)

Herbert Lond, Boston, Mass., U. S. A., 22nd November, 1878, for 5 years.

*Claim*—1st. A sheave made of metal and of wood, 2nd. A sheave made of metal with an attached metal rim H; 3rd. A sheave made of metal and of wood with the wood projecting at the sides of the metal; 4th. A sheave made of metal with an attached metal rim H, and wooden blocks E, 5th. A sheave made of metal, with an attached metal rim H and wooden blocks E projecting at each side of the sheave.

**No. 9382. Nickel Grain Anodes for Plating.**

(*Anodes à grains de nickel pour plaquer.*)

Adolph C. Wenzel N. Y. U. S. A., 22nd November, 1878, for 5 years.

*Claim*—1st. The nickel anode constructed of the perforated plates A and A<sub>1</sub> with the strips B and C and their space D between, and combined for detachment for cleansing and provided for suspension, 2nd. The combination of the perforated plates A and A<sub>1</sub> and the strips B and C, with the space D between, and the bolts F with their nuts and the staple H, its screw I and the hooks F.

**No. 9383. Improved Miller's Paint Staff.**

(*Règle d'épave des meules, perfectionnée.*)

Jacob Austine Huntsville Ohio U. S. A., 22nd November, 1878 for 5 years

*Claim*—A miller's paint staff made in the form of an equilateral triangle with the faces of the same brought to a true plane.

**No. 9384. Improvements on Clasps.** (*Perfectionnements aux crochets.*)

Francis B. Brown, Boston, Mass., U. S. A., 22nd November, 1878, for 5 years.

*Claim*—The three levers a a<sub>1</sub> and b hinged together by the pin d, one end of b acting with a to form one pair of gripping-jaws, and the other end of b acting with a<sub>1</sub> to form a second pair of gripping-jaws.

**No. 9385. Improvements on Steam Boiler Cleaners.** (*Perfectionnements aux nettoyeurs des chaudières à vapeur.*)

James E. Thomas, West Bay City, Mich., U. S. A., 22nd November, 1878, for 5 years.

*Claim*—The combination of the deflector B provided with the raised part C, and the pipe D with the pipe E, the reservoir F and the pipe H.

**No. 9386. Improvements on Water Conductors.** (*Perfectionnements aux conduits d'eau.*)

Robert Moore, Simcoe, Ont., 22nd November, 1878, for 5 years

*Claim*—The combination of the valve E and the two pipes C and D joined on to the enlargement B, of the main pipe A.

**No. 9387. Improvements on Canal Boats.**

(*Perfectionnements aux bateaux pour les canaux.*)

John W. Melzer Ottawa, Ont., 22nd November 1878, for 5 years.

*Claim*—The arrangement of the diagonal timbers G G combined with the ribs H and the keels A D D, floor-timbers E and tie-beam F

**No. 9388. Improvements on a Mill-Stone Dress.** (*Perfectionnements dans le rabotage des meules.*)

Adolph Frobenhagen, St. Charles, Ill., U. S. A., 22nd November, 1878, for 5 years.

*Claim*—1st. A shallow depression b, contiguous to the furrows on the skirt or grinding surface of the stone; 2nd. The furrows a in combination with the shallow depressions b and the narrow grinding faces c 3rd. The furrows a, in combination with the level depressed surfaces b and the narrow grinding faces c.

**No. 9389. Improvements on Cocks.** (*Perfectionnements aux robinets.*)

John Deurance, London, England, 22nd November, 1878, for 5 years.

*Claim*—1st. The construction of cocks having packing surrounding the passages in such manner that the inner end of the plug abuts on and compresses the portion of the packing contained in the bottom of the plug cavity at a; 2nd. The construction of packed cocks represented in the drawings.

**No. 9390. Improvements on Threshing Machines.** (*Perfectionnements aux machines à battre.*)

Levi Pinkerton, Schomburg, Ont., 22nd November, 1878, for 5 years

*Claim*—1st. The shaft E, bracket G and spur bevel wheel E, in combination with the bevel pinion G and the cylinder shaft B<sub>1</sub>, 2nd. The cylinder shaft B<sub>1</sub> with bevel pinion C and pulley D, between which is placed the bearing B<sub>2</sub>; 3rd. The combination of the spur bevel wheel E, shaft B<sub>1</sub> and fan pulleys D and D<sub>1</sub> with connecting belt; 4th. The concave plate provided with the lateral bars or ridges H<sub>1</sub>, and forwardly extended, as shown in connection with the delivery board I, 5th. The open conveyor formed by the bars J, placed at intervals apart, and the lapping-teeth j arranged for the purpose of carrying off the straw and permitting the grain to pass through the receiving board; 6th. The combination of the conveyor teeth with the fixed teeth L.

**No. 9391. Improvements on Weighing Scales.** (*Perfectionnements aux balances.*)

Charles Onslow Port Ewen N. Y. U. S. A., 22nd November, 1878, for 5 years

*Claim*—1st. The rollers A, provided with flexible bands on their opposite sides, in combination with the suspended and stationary frames 2nd. The arms C C that connect the rollers, and their connection at m, 3rd. The combination of the scale beam D and its connecting rod d<sub>1</sub> with the bands m, the arms C, the rollers A and their flexible bands B.