No. 9860. **Improvements** on Broad Cast Sowers. (Perfectionnements and semoirs a la ralée \

John Whelan, Woodhouse, Ont., 17th April, 1879, for 5 years

Claim The combination of the levers A A with the wheels B B, attached though the of linder H, supported by brackets.

No. 9861. Station Indicator (Indicateur des sta-

David C Morency, Charles W Carrier, Levie, and John M. Mackay, Quebec, Que, 17th April, 1879, for 5 years.

Claim -1º L'emploi d'un ressort pour faire mouvoir les rouleaux R R es sens contraire et, par conséquent, tenir la toile constamment tendue, et essens containe as par consequent, tenir in tone constamment tendite, et remettre d'employer une bande de papler ou de toile d'une longueur considérable. 2º Lu dispositi en de la roue C, de la canne D, de l'aiguille N, des resorts E et des goupilles F F qui mit que par un mouvement toujours semblable de la pièce H, on obtient, par un simple demi tour de l'aiguille N, des la contract affe et équiller de table celle ce semmanue ur un process, o content, par un empire aum sour de l'aignifié A, on mouvement sûr et régulier de la toile, soit dans un sens ou dans l'autre, les goupilles F F rendant le rouleau A parfaitement stationnaire.

No. 9862. Process and Apparatus for Amalgamating Ores. (Procede et appareil pour amalgamer les minerais.)

Charles E. Ball, Philadelphia, Pa., U. S., 17th April, 1879, for 5 years.

Claim.—1st. The method or process of amalgamation, consisting in minglag mercury and ore, travelling together in a chamber or tube, to vacuo or
under exhaust, and. The mothod or process of amalgamation, consisting in
minging the mercury and ore in a hamber or tube, in vacuo or under
exhaust, while the amalgam is detailed in said chamber, and causing the
ore to be drawn by auction through such detained amalgam; 3rd. The
method for effecting amalgamation by drawing ores through a body of
mercury, the cre being admitted on the under side of said body on the side
opposite to that in which the suction is produced. 4th. The combination Claim.-1st. The method or process of amalgamation, consisting in mingmercury, the cre being aumitted on the under said of said body on the side opposite to that in which the suction is produced. 4th. The combination, with a chamber or tube A, mercury holder B and ore hopper C, of a steam some I, or equivalent exhaust apparatus, located between said hopper and the discharge end of said tube or chamber A; 5th. The amadganatung apparatus consisting of chambers composed of the es A E G, mercury bolder B, ore hopper C and steam nozzle or suction appliance I.

No. 9863. Machine for Testing Eggs. (Machinpour mirer les œufs.)

Ansel Williams and Henry S. Dustan, St. John, N. B., 17th April, 1879, for 5 years.

Claim - The combination of the pint O O, tube J, opening K, mirror or reflector M, wires W W W, cleats C C and handle H.

No. 9864. Improvements on Gas Retorts.

(Perfectionnements aux cornues à gaz.)

Edwin M. Moore, London, Ont., 17 h April, 1879, for 5 years. Chim.—In a gas retort, the combination of chambers F F, vapourizing pan C, rim I, cover J, loose bottom H, rods P P and lead joints T T.

No. 9865. Improvements in Portable Boats.

(Perfectionnements aux canots portatifs.)

James B Luckerhoff, Trois-Rivières, Q. e., 17th April, 1879, for 5 years

Claim.—The combination, with the central compartment A and the end compartments B B, of a portable sectional boat, air tight bulk heads C C water tight spaces c c, eyes d d, connecting bolts or rols e e and slip or slding bolts ff.

No. 9866. Improvements in Oil Bearings.

(Perfectionnements aux coussinets à huile.)

George Brulford, Toronto, Ont., 22nd April, 1879, (Extension of Patent, No 3374) for 5 years.

No. 9867. Machine for Cutting Metal.

(Machine pour tailler les métaux.)

Frederick Cook and Hugh Campbell, Exeter, Ont., 22nd April, 1879, for 5 Tears

A metal cutting machine, consisting substantially of standard B, with bread flat head C, broad guide piece D, lever handle E and flat draw arms F in combination with knives AI; 2nd. In combination with the above described parts, the block J baving recesses K L; 3rd. In combination with the above, the adjustable holder G and bolts and nuts H.

No. 9868. Improvements on Curd Agitators.

(Perfectionnements aux ménoles.)

Edward Tyhurst, Chatham Ont., 22nd April, 1879, for 5 years.

Edward Tyhurst, Chatham Ont., 22nd April, 1879, for 5 years.

"Izim—lst The vat A Lited with blocks b, at both ends, to conform to the periphetal sweep of the cylinder agitating arms d: 2nd. The combination of the vat A, baving strainer B, and the rotary and travel ing cylinder D, baving agitator arms d for breaking the curd. 3rd. The wheels G and H baving cog pinnons E E meshing with a horizontal rack F, on opposite sides of the vat A, for operating the cylinder D; 4th. The tan wheel J, casing K, withdors W enclosing a cylinder D having arms d for discharging a current of ar now the curd; 5th. The combination of the screen L, fan shaft N, morable learnal hearing O, for effecting the engagement and disengagement of the promain learning of the bottom of vat A and secured to the strainer B by soldering. by soldering.

No. 9869. Improvements on Railway Jacks.

(Perfectionnements on error des carl outes.)

James Guilford and John P. Donnelly. Moore, Ont., 22nd April, 1879, for 5 years

Claim. - The combination of the column A, jack screw D, and C and lover K.

No. 9870. Improvements on Bee Hives. (Perfec-

tionnements aux ruches.)

Peter Fisher and Robert B. Scott, Colborne Ont., 22nd April, 1879, for 5 years.

lasm—lst A hive having one, two or more entrances, subdivided between the honey frame G by glass partition J, removably inserted for dividing the hive into working and non working sections of any desired capacity, 2n. The removable supplementary boxing C C attached to the hive, to preserve uniformity of heat during the spring months, to afford protection during the winter months and to allow of the employment of any dust in other authors without necking. Int. The progress of the hive or other suitable packing . 3rd. The provision, to the entrance of the hive, of gularly placed boards D D to direct the bees to the entrance.

No. 9871. Process for Clarifying the Juices of Sorghum Maize. (Procédé pour clarifier

le jus da Sorgo.)

Francis L. Stewart, Marysville, Penn., U. S., 22nd April, 1879, for 5 years.

Princes 1. Steart, starystille, refin, 0.5., 2200 April, 1679, for 3 years.

Claim—1st The final depurating process applied to maize and sorghum juice, additional to and directly following detection by the action of hime and heat, and neutralization of the excess of his by sulphurous oxite and consisting, first: in the reduction of the temperature of the previously heated juice to 140° Farenheit, second, the admixture, with it, of sulphurous oxide, in sufficient quantity to make it strongly accidious, third—the addition of the albument to the lines, in sufficient quantity, fourth—the raight heating of the juice to the booking point and the limited are moved of the scrim, and fifth: intee to the botting point and the immeniate removal of the sciim, and fifth the subsequent addition, at intervals to the strap botting at the atmospheric pressure of sulphurous oxide, in sufficient quantity to preserve it in an acid condition to the close of the evaporation, 2nd A compound for defecating sanchinrine liquids, consisting of a solution of tannic acid united with liquid sulphurous acid, and with hydrate of alumina.

No. 9872. Improvements on Saw Guards.

(Perfectionnements aux garde-seies.)

Isnac N. Kendall, Buckingham, an i Richard Hall, Gatmeau-Mills, Que., 22nd April, 1879, for 5 years.

Claim.—1st. The metallic liners and slab guards applied to saws, for the purpose of preventing them, when in motion, from deviating from a straight line, 2nd. In combination with the netallic liners and Anb guards I and P, the metallic or glass slips f_1 : 3rd. The combination of the metallic liners and slab guards with the slips f_1 and backings g_1 g_2 .

No. 9873. Improvements on Hydro-Carbon Lamps. (Perfectionnements aux lampes à hydro-carbure.)

Thomas Walsh, Montreal, Que , 22nd April, 1879, for 5 years.

Claim—1st The combination of the supply pipe D and air or steam pipe B, with the tipe H, provided with the burner I, whereby the pipe H becomes a combined retort sedduct. 2nd The combination of the pipe D having cocks E and F, pipe B having cock C, pipe H and burner I; 3nd The burner I composed of a pipe having a lip of plate L at its bottom extremity, turned in an upward direction, and having the opening K arranged to deliver the gas, &c., upon the plate L.

No. 9874. Process of Purifying Illuminating

Gas. (Procédé pour purifier le gaz d'éclairage.)

Orazio Lugo, Flushing, N.Y., U.S., 22nd April, 1879, for 5 years.

Claim — lst. The process of purifying gas, which consists in passing the same through animal charcoal or bone black wet with water. 2nd. The process of purifying and enriching gas at a single operation, which consists in passing the same through animal charcoal or bone black, which has been impregnated or saturated with a suitable hydro-carbon; 3rd. The process of purifying illuminating gas by passing the same, mixed with air, through ani mal charcoal; 4th. The purification of illuminating gas by animal churcoal, the process of preventing absorption of illuminants of the gas by charing the gas with a suitable correlative of such illuminants; 5th The composito be used in the purification of gas, consisting of animal black bore black, or char and coal tar.

No. 9875. Improvements on Printing Presses.

(Perfectionnements aux presses d'imprimeries.)

Charles Ellery, Albany, N. Y., U. S., 22nd April, 1879, for 5 years.

Charles Ellery, Albany, N. Y., U. S., 22nd April, 1879, for 5 years.

Claim.—1st. The sliding head C, having an adjustable cross-bar D carrying the sliding tubes E provided with clastic cushious e and spring e, and connected by the flexible tubes f, to the suction pipe F, in combination with a paper holder H, having a vertically vibrating motion; 2nd. the combination, with the paper holder H and shaft L provided with the arm l and witer ls, of the sliding rod K, hub K., with pin K3 and springs K4 K5; 3rd. The combination, with a paper holder H, having a vertically vibrating movement, and provided with spring fingers h arranged at the side of said holder, of the sliding head C, provided with the sliding tubes E, connected to an exhausting device for producing a vacuum in said tubes, thi. In a paper feeding device, the combination, with the sliding head C, provided with the sliding tubes E, having the cleate cushous e 2nd springs et. of the vibratory paper holder H, shaft L, provided with arm l and wiper ls, and the sliding rod K provided with the hub K2 and springs K4 K5.