D. avec le pêne supérieur J, pour fermer la porte à clef à l'intérieur; 40. D. avec le pêno supérieur J, pour fermer la porte à clef à l'intérieur; 40. La combungon du ressort I, ravé nu dos du pêne inférieur D, s engageant dans l'encoche d, de la tête du pêne supérieur J, avec le pêne supérieur J, pour le rendre dormant; 50. La combinaison particulière de la détente M, du pêne supé: .ur J, et de la gachette F, du levier K, et de son ressort L, du pêne inférieur D, et de sa gachette F, du ressort I, s'engageant dans l'encoche d, de la tête du pêne supérieur J, avec la clef du pêne supérieur J, et celle du pêne inférieur D.

Claim .- 1st The combination of the detent M, with the upper bolt J, for retaining it inside of the lock, 2nd. The combination of the detent M, and of the upper bolt J, having the notch a, of the groove b, with the key of the upper bolt J, to keep it engaged and fixed in the lock when the door of a cell is opened, 3rd. The combination of the lower bolt D, with the upper cell is opened, 3rd. The combination of the lower bott D, with the upper bolt J, to lock the door findle; 4th. The combination of the spring I, rivetted on the back, of the lower bolt D, engaging in the slot d, of the head of the upper bolt J, with the upper bolt J, to make it dormant, 5th. The para-combination of the detent M, of the upper bolt J, and of the follower Fi, of the lover K, and its spring L, of the lower bolt D, and of its follower F, of the spring I, engaging in the slot d, of the head of the upper bolt J, with the key of the upper bolt J, and that of the lower bolt D.

No. 6001. Electro-Harmonic Telegraph.

(Telegraphe electro-harmonique.)

Elisha Gray, Chicago, Ill., U. S., 23rd May, 1876, for 15 Years,

Claim.—1st. The art of telegraphically transmitting composite tones which consists in working a closed circuit with a continuous entrent from a main battery, proportions of the whole of which current are thrown into vibration at will by the transmitters; 2nd. The art of telegraphically transmitting and analyzing composite tones, which consists in working a closed circuit with a continuous current from a main battery, portions of the whole of which current are thrown into vibration at will by the transmitters, each off of the transmitters. of which current are thrown into vibration at will by the transmitters, each set of vibrations being audibly reproduced by a corresponding receiver; 3rd. The combination of a series of transmitters each operated by a local battery, a main battery, and cleetric circuit through which a continuous attent flows from said battery, and shant or short circuits between the main battery and transmitters, 4th. The combination of a series of transmitters, a main battery connected therewith by short or shant circuits, a closed electric circuit through which a current continuously passes from the main battery, and a series of analyzing receivers included in the circuit.

Safety Lock. (Sercure de sarcté.) No. 6102.

Joseph A. Quesnel, Arthabaskaville, Que., 23rd May, 1876, for 5 years.

Résumé.—Lu combinaison du pène surnuméraire et vertical II, et sa ca-helle J, avec le petit pène E, d'une serrure A, pour en faire une serrure dite de sûretê.

Claim.—The combination of the supernumerary and vertical bolt H, and its follower J, with the small bolt E, of a lock A, to make what is called a safety lock.

No. 6103. Blast Furnace for Reducing Ores.

(Fourneun conlunt pour reduire les minerais.)

Ananias Smith, Clifton, Out., 23rd May, 1876, for 5 years.

Claim.—ist. The combination of the shaft A, combustion chambers C, pipes U1, and W, connecting through intermediate pipes with a steam boder L, and finel tank K, connected by a pipe M, 2nd, The combination of a superheater O, steam boder L, pipe M, lepind fuel tank K, pipes U1, and W, with the combination chambers C, and interior or shaft A, of the furnace; 3rd. The combination with the inside or shaft of the furnace, of one or more water slabs arranged within the same.

No. 6104. Composition of matter to be used Medicinally and as Food.

(Compose medecinal et alimentaire.)

John L. Johnston, Sherbrooke, Que., 23rd May, 1876, for 5 years.

Claim.—A mixed compound of Beef and other meats with Albumen.

No. 6105. Improvements on Root-Cutters.

(Perfectionnements aux coupe-racines.)

Nazaire Aubut, Trois-Pistoles, and Théophile Aubut, Ste. Flavie, Que., 23rd May, 1876, for 5 years.

Résumé.-La combinaison des conteaux a dents II, et des lumières à dents G, avec la rone verticale F.

Claim .- The combination of toothed knives H and toothed holes G, with the vertical wheel I'.

No. 6106. Improvements on Tobacco Pipes.

!Perfection noments aux pipes.)

Mark Thomson, Cowansville, Que., 23rd May, 1876, for 5 years.

Claim—1st The cylindrical tube B closed at one end by cork plug E, and at the other end by cularged screw D, on end of mouth piece, 2nd. The combination with the cylindrical tube B, of the purous material F.

No. 6107. Improvements on Oscillating Valves. (Perfectionnements aux soupapes oscillantes.)

John Fairburn, Upton Station, Que., 23rd May, 1876, for 5 years.

Claim.—The oscillating valve A, receiving steam internally through pipe I, having a single port a, in combination with a cylinder having the steam inlet ports F, F, coinciding with the port a, and the ports G, G, exhausing above the valve and terminating in a passage E, leading toward each end of the cylinder

No. 6108. Improvements on Sewing Ma-

(Perfectionnements and machines a condic.)

John C. Burton, St. Thomas, Ont., 23rd May, 1876, for 5 years.

Claim,—1st. The plate A, having pillars B, B, leaving the spinitle C, provided with a grinding wheel D, and pulley E, 2nd. The provision of a rest G, branching from the pillar B, and bending over the grinder D; 3rd. The rest G, having hole H, for receiving the needle while being pointed.

Improvements on Cultivators. No. 6109.

(Perfectionnements aux cultivateurs.)

William Green, Brantford, Ont., 23rd May, 1876, for 5 years.

Winam Green, pruntiory, Ont., 25rd May, 160, for 5 years.

Claim.—18t. The radial links or chains 1, 2 and 3, and lateral links 4 and
Ein combination with a crank pin; 2nd. The cast from plate D, with flanges
E, and F, and the crank plate G, with helical teeth N, formed on the side or
edge, and also strap M, between crank pin and pin 1; 3rd. The gauge of
on crank plate G, in connection with index S, on stay Q, the blocks X and
boot leave N. bent lever Y.

No. 6110. Railroad Car Coupling.

(Attelage de wagons de railroute.)

George W. Green and Abraham D. Green, Greensville, Ont., 23rd May. 1870, for 5 years.

Claim-1st. The combination of the ston B, with pin D; 2nd. The combination of the link lifter E. E. with the coupling box A.

No. 6111. Improvements on Potato-diggers.

(Perfectionnements and arrache-putates.)

James Kealy and Patrick Kealy, Gloucester, Ont., 33rd May, 1876, for 5 venrs.

The scoop C, and screen D, the combination of the crank shaft J, and rake bars I, provided with rake heads K_{\star}

No. 6112. Improvements on Steam Engine Exhausts.

(Perfectionnement des soupapes d'aspiration de vapeur.)

Henry D. Durbar, North Hartland, and James M. Poss, St. Albans, Vt. U. S. 24rd May, 1876, for 5 years

Clairs.—1st. The combination of the pipes A and At, with the exhaust passages of a steam engine 2nd The combination of the conical shaped head Br. a series of movable plates Fr. and the cap B, having a partially rotary movement upon said head to move the plates, 3rd. The commandion of the conical shaped head Br., the movable plates Fr. the cap B, and the orders wereld. the exhaust nozzle I.

No. 6113. Improvements on Seeding Ma-

chines. (Perfectionnements and machines à semer.)

Peter Milne, Langton, Ont., 23rd May, 1876, for 5 years.

Gaim.—1st. The seed box C, having a supplementary sliding bottom J, slotted, subdivided transversely, and both subdivisions operated by leves K, 2nd. The combination with t^i wheel A, having cam cylinders G, G, the levers E, E, and agitator D; 3rd. The provision to the seed box C, of the slide N. Claim .- 1st. The seed box C, having a supplementary sliding bottom J.

No. 6114. Improvements in Railway Signals.

(Perfectionnements dans les signaux de ractroates.)

Thomas Sills, Fort Eric, Ont., 23rd May, 1876, for 5 years.

(Vaim —1st. The combination of the lamp I, and the shade J, 2nd. The combination of the lamp I, and the shade J, with the semaphore arm K, 3rd. The combination of the lamp I, and the shade J, with the semaphore arm K, also the switch fastener N.

Improvements on Metallic Roofs.

(Perfectionnements aux toitures métalliques.)

John Power, Kingston, Ont., 23rd May, 1876, for 5 years.

Claim .- 1st. A sheet metal roof that will allow of contraction and expan-Claim.—Ist. A sheet metal roof that will allow of contraction and expansion in all directions, 2nd. The mode of applying sheet metal covering to roofs by strips C, secured at Intervals to the sheeting A, and formed to lock slidingly with engaging rails D, interposed at suitable distances between and rivetted to the sheet B, up-turned at their edges, to form raiges with the pitch of the roof and the joints of the up-turned edges rivetted and soldered or otherwise anade wateright, 3rd. The combination with the sheets B, B rivetted and soldered to the roof sheeting A, 4th. The sheets B, B rivetted and soldered to the rails D, and secured to the roof she time A, by strips C. she ding A, by strips C.

No. 6116. Apparatus for Walling Wells.

(Appareil à murer les puits.)

Azariah Moore, Shellsburg, Iowa, U. S., 23rd May, 1876, for 5 years.

Claim.—1st. A series of radius arms, upon the outer ends of which the wall may be supported, said arms being pixoted to a centre column and provided with a releasable detent contrivance capable of being operated from the top of the well to allow of the tiling of the arms when the miplement is withdrawn from the well, 2nd. The combination with the pixoted radius arms A, of the column D, ring or collar E, and lever F, 3ol. The combination of the radius arms A, the adjustable bearings B, and collar E, provided with a detent contrivance wherehe the amoratus may be E, provided with a detent contrivance whereby the apparatus may be adjusted to different diameters; 4th. A device for walling wells from the surface, useries or radial arms formed to support the wall white being lowered, and to be released, and withdrawn from beneath the same when the wall is in place, 5th. The combination with the radius arms A, of the cords or chains i, i, attached to the inner ends of the arms and congregated together at i, 6th. The combination with the column D, and collar E, the spring catch N, inserted in the side of the column.

No. 6117. Manufacture of Grain Cradle

Fingers. (Fabrication des branches des javeliers.)

Christopher P. Kelsey and James L. Multer, Richir, ondville, N. V., U. S., 23rd May, 1856, for 5 years.

Claim. - 1st. The application of a denticulated (or serrated) edged curved or strught knife, fastened in a rotary cutter head cylinder, to a tapering piece of timber, cutting or growing it out so as to form a set more or less in number of grain cradle fargers, at the same time giving them an elliptical or other sectional form; 2nd. The bending of the fingers, before being entirely separated from each other at the sides or ends.