	12X		16X		20X		1	24X	<u>l</u>	1	28X		32 X
										,			<u> </u>
	n is filmed at ti ment est filmé					<b>22</b> X			26X			30×	
c <sub>°</sub>	mmentaires su	pplémentai											
Ad	Iditional comm	nents:/				j	·	Generio	que (pério	aiques.	) de la livr	aison	
þa	lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.						Caption of issue/ Titre de départ de la livraison  Masthead/ Générique (périodiques) de la livraison						
lo: ma													
be	en omitted fro se peut que cei	m filming/							titre de la		son		
, ,	ank leaves add	-							e de l'en-té age of issu	•	vient:		
	n reliure serrée storsion le long	*							n header t				
alc	ght binding ma	argin/							es index(es end un (de		ex		
	ound with othe elié avec d'autr		ıts						uous pagir tion contir		,		
1	oloured plates anches et/ou il								of print v inégale d		ression		
1 1	oloured ink (i.e ncre de couleur							Showtl Transp	rough/ arence				
L ca	artes géographi							Pages d	létachées				
	e titre de couve ploured maps/	erture manq	ue					_	lécolorées, letached/	tache:	tées ou pic	quées	
f I	over title missi	_									ed or foxe		
i -	overs restored : ouverture resta	· ·							estored an estaurées (				
1 1	overs damaged, ouverture endo							_	lamaged/ ndommag	ées			
1 1 -	oloured covers. ouverture de co								ed pages/ le couleur				
of the ir	nay be bibliographically unique, which may alter any f the images in the reproduction, or which may gnificantly change the usual method of filming, are hecked below.					exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.							
copy av	titute has atter ailable for film	ing. Featur	es of this c	opy which			lui a é	té poss	ible de se	procur	illeur exen er. Les dé	tails de	cet



Vol. IV.—No. 8.

AUGUST, 1876.

Price in Canada \$2.00 per An. United States - \$2.50

# CONTENTS.

INVENTIONS PATENTED	115
INDEX OF INVENTIONS	CXXIII
INDEX OF PATENTEES	CXXIII
Illustrations	125

## INVENTIONS PATENTED.

No. 6214. Saw-gummer. (Machine à affater les scies.) Joseph M. Smith, Rochester, N. Y., U. S., 16th June, 1876, for 5 years.

Claim.—1st. The combination with the carriage E, and screw L, of the coiled spring B, resting at one end against a shoulder of the main frame, and connected at the other with the screw by means of a nut adjustable up and connected at the other with the screw by means of a nut adjustable up or down on said screw, whereby the spring may be compressed a greater or less degree to vary the range of motion or the feeding pressure of the milling tool; 2nd. The combination with the screw L, and spring B, of the nut p, made adjustable upon the screw for the purpose of compressing the spring and the hand wheel u, for releasing the said pressure; 3rd. The combination with the screw L, and spring B, of the clamp nut p. s. hand wheels t, u, and adjusting nuts w, w; 4th. The combination with the rod C, pivoted to the main frame and adjustable to different positions on the pivot of the rest D, provided with the slit ar, to receive the saw and adjustable vertically upon the rod by means of the set screw d; 5th. The combination with the carriage E, and milling tool, G of the gauge K, projecting backward over the burr and resting against the point of the tooth to form a gauge to the cut of the burr; 6th. The insertable cutters i, i, constructed of diamond shape in cross section with opposite cutting edges whereby the cutters may be reversed; 7th. The combination with the milling tool G, constructed with grooves, and with insertable cutters i. i, fitting in the grooves of the shouldered flanges or rim M, M, clamping the cutters in place.

No. 6215. Improvements on Volta-electric

### No. 6215. Improvements on Volta-electric Appliances.

(Perfectionnements aux Appareils électro-voltaïques.)

John E. Hetherington, Cincinnati, Ohio, U. S., (Assignee of Isaac L.

Pulvermacher), 16th June, 1876, for 5 years.

Claim .- 1st. The copper plate forming the negative element constructed Ctaim.—1st. The copper place forming the negative element constructed with prongs A, A, slots a, a, and tongue B, adapted to be folded or rolled into tubular form; 2nd. The zinc plate E, forming the positive element constructed and perforated as represented wrapped with thread or other suitable fibrous material or tissue as an absorbent for the exciting fluid and adapted to be folded or rolled so as to be inserted into the copper element; 3rd. The combination of a zinc plate, provided with nicks, c, to receive and hold thread, with a thread wound spirally thereon, and fastened by swaging or punching into the said nicks; 4th. The combination of the zinc plate with the copper plate to form an element for medico-electric purposes; 5th. The modified arrangement of copper strips or plates A, A, slitted longitudinally and the parts between the slits bent outward to form pockets to receive the zinc B, B, in combination with the said zincs to form a voltaic element or link. adapted to be folded or rolled so as to be inserted into the copper element;

## Method of Manufacturing Gas for Heating and Illuminating Purposes.

(Méthode de fabrication du gaz pour l'éclairage et le chauffage.) Henry Bray, London, Ont., 16th June, 1876, for 5 years.

Claim.—1st. The combination of tanks A, B, pipes C, E, funnel injector D, syphon F, and conducting pipe G; 2nd. The combination with the above, the retorts H, I, J, connecting pipes K, and L. and exit pipe M; 3rd. The method of generating pure gas by the combination of fluid excreta, with hydro-carbon.

#### No. 6217. Improvements in the Preparation of Hams.

(Perfectionnements dans la préparation des jambons.)

Alden B. Richardson, Dover, Del., U. S., 16th June, 1876, for 5 years.

Claim .- 1st. The method of preparing hams by removing the bone, pack ing the boned ham into a tightly fitting hermetically sealed can, and cooking the same, whereby the bone cavity is closed and the ham rendered solid;

2nd. A whole, boneless, solid ham put up in a specially constructed hermetically sealed can.

#### No. 6218. Dust Preventer and Vapour Exhauster for Mill Stones.

(Garde-poussière pour les meules de moulin.)

Frederick A. Howland, Lambton Mills, Ont., 16th June 1876, for 5 years. Claim.—In combination with the stone casing A, provided with an opening a, in the sheet metal box B, provided with an opening in the lower side corresponding to the hole cut in casing with tubular extension C, and fitted with the air valve G, and connected to the exhaust fan Fr, and general exhaust tube E, by the thin metal tube D.

#### Door-holder. (Arrète-porte.) No. 6219.

Hugh McDiarmid, Toronto, Ont., 16th June, 1876, for 5 years.

Claim.—The combination of a self acting holder in a box with a stop attached to the box.

## No. 6220. Machine for Amalgamating Ores.

(Machine à amalgamer les minérais.)

Louis Carvell, Hampton, N. B., (Assignee of Thomas Walker, and Joseph

W. Bancroft), 16th June, 1876, for 5 years.

Claim.—1st. An amalgamating retort combined with a furnace and having Claim.—1st. An amalgamating retort combined with a furnace and having a movable valve V, for supporting a charge of ore while it is being subjected to the vapour of mercury, and for discharging the ore; 2nd. The cupshaped valve V, within the retort in combination with a pipe z, through which mercury may be introduced into the receptacle of the valve V; 3nd. The combination in the retort of a tight fitting ore supporting Valve V, with valves O, and o, for supporting the ore without obstructing the outward passage of the vapour of mercury: 4th. The combination in the retort of the valves V, and X, and a condenser E.

#### No. 6221. Improvements on Skates.

(Perfectionnements aux patins.)

James A. Whelpley, Greenwich, and George E. Buteaux and Alfred B. Sheraton, Saint John, N. B., 21st June, 1876, for 5 years.

Claim.—1st. The combination of the lug tightener F, the dog D, and the right and left hand threaded nut C; 2nd. The device consisting of the piece c, and key d, for adjusting the skate transversely on the boot; 3rd. The heel dog formed with the brace e; 4th. The frame E, having raised bars at either end in combination with the sole plate B, and lugs b, b; 5th. The use of the right and left hand threaded nut when applied to a skate in the direction of its length and arranged for clamping or operating the side clamps and tion of its length and arranged for clamping or operating the side clamps and heel dog simultaneously; 6th. The application of the aforesaid invention to all description of skates whether for the ice or formed with rollers for floor or parlour use.

#### No. 6222. Improvements on Breech loading Cannons.

(Perfectionnements aux canons chargeant par la culasse.)

Joseph R. N. Owen, Hamilton, Nev., U. S., 21st June, 1876, for 5 years. Claim.—1st. The cannon A, provided with the key chamber B. at the base of its bore or powder chamber, and having the key slot or passage C, leading from said chamber through the cascable of the gun in combination with the breech block F, with its stem E, and lever handle g; 2nd. The cannon A, provided with the key chamber B, and key shot or passage C, when the rear faces d, d, of the key chamber are constructed on a spiral or incline in combination with the breech or head block F, with its corresponding spirally arranged or inclined reag faces? arranged or inclined rear faces ?

#### No. 6223. Improvements on Rein-holders.

(Perfectionnements aux accroche-quides.)

George A. Shaw, Toronto, Ont., 21st June, 1876, for 5 years. Claim.—1st. The spring radial arm D, mounted on the stud pin c, or its equivalent in combination with the angularly placed flange E, arranged and operating in a fixed or portable rein holder or buckle.

#### Mordant for Dyeing Cotton and No. 6224. Woollen Goods.

(Mordant pour teindre les étoffes de laine et de coton.)

Frederick J. Bird, Stroud, Eng., 21st June, 1876, for 5 years.

Claim.—The composition of gall, nuts, tannin, alum, tin and sods.

#### No. 6225. Improvements on Paper Damp-( Perfectionnements aux humecteurs de papier. )

Charles G. C. Simpson, Montreal, Que., 21st June, 1876, for 5 years.

Claim.—The pad a, of persons material for holding water by attraction having an impervious back b; 2nd. The pad a, of persons material for holding water by capillary attraction, having an impervious back b, with a front impervious back b, where b is the following an impervious back b, where b is the following an impervious back b, where b is the following an impervious back b, where b is the following an impervious back b, where b is the following an impervious back b, where b is the following an impervious back b, where b is the following an impervious back b is the following and b is the following an impervious back b is the foll pervious margin c, or margins c.

#### No. 6225. Improvements on Washing Machines.

(Perfectionnements aux machines à laver.)

Jacob M. Rodkey, Pricoville, Ont., 21st June, 1876, for 5 years.

Claim.—The box A, within which is placed a false bottom formed by the fluted bars C, and plain places E, bound together by the end pieces D, and supported by the spring F, in combination with a fluted or corrugated roller G, pivoted within the box A, upon the crank axie if.

#### No. 6227. Improvements in Stump Extractors.

(Perfectionnements aux arrache-souches,

Enoch Farnsworth, Panutawney, Penn., U. S., 21st June, 1876, for 5 years.

Enoch Farnsworth, Panatawney, Penn., U. S., 21st June, 1876, for 5 years. Claim.—1st. A clevis II, resting within a notehed link F, and supporting a lever G, provided with holes Q, and sheaves I, in combination with the chain or rope J, and snatch blocks K, 2nd. The leg or standard A, provided with a ring shackle D, in combination with the bolt E, and legs or standards At, At; 3rd. The take up bar M, provided with the holes E, and clevis O, for supporting the stump chains P, in combination with the pin N, and lever G; th. The hold up link I, fitting within the notehed link F, in combination with the take up bar M; 5th. The legs A. At. At, connected together in the form of tripod and provided with foot pieces B, in combination with the bar c, placed sufficiently far from the ground to allow each of the legs At. At. to find a bearing upon the ground for itself. 6th. The take up bar M, provided with clevis O, in combination with the two stump chains P.

#### No. 6228. Improvements on Cultivators.

(Perfectionnements aux cultivateurs.)

Jonathan Wade, London (Thp.) Out., 21st June, 1876, for 5 years.

Claim.—1st. The bare C, C, divisions E, teeth F, shoes G, slotted bars H, set or thumbscrews I; 2nd. The arrangement, in combination with frame A, of a series of movable bars C, C, ntached to slots in frame by eyes and bolts D; 3rd. In combination with the movable bars C, C, the roller J, ratchet and lever L, M, and chains K.

# No. 6229. Churn Power. (Moteur de baratte.)

Truman Cole, Shannonville, Ont., 21st June, 1876, for 5 years.

Claim.—The combination and arrangement of steel spring A, clip-holding spring B, standard C, brace D, bed piece E, lever bar F, dash handle G, balance weight H, and screw!

#### No. 6230. Attachment to Street Sprinklers.

(Disposition aux arroscurs de rues.)

George Trimble, Toronto, Ont., 21st June, 1876, for 5 years.

Claim .- The stop cock E, placed in the centre of the perforated pipe A, in combination with the dexible pipes B. B, attached to the cart C, and provided with valves D. D.

#### No. 6231. Improvements in Catapults.

(Perfectionnements aux catapultes.)

John A. Knight, Montreal, Que., 21st June, 1876, for 5 years.

Claim .- A catapult composed of the handle K, and rubber ejector X, the ring It, and hole II.

# No. 6232. Process of Tanning Hides.

(Procédé de tannage des peaux.)

Charles Richter, Detroit, Mich., U. S., 21st June, 1876, for 5 years.

Claim-1st. The solution composed of the ingredients before mentioned, viz. water, sulpht. ic acid, common sait, wheat him or wheat middlings and sugar of lead; 2nd. The manufacture of leather from hides or skins by the application of the solutions composed of water, sulphute, acid, common sait, wheat, bran or wheat middlings and sugar of lead and water, sal soda, raccoon oil and glycerine.

#### No. 6233. Improvement in Piston Packings.

(Perfectionnements dans les garnitures de pistons.)

John T. Wright and Martin Schueble, Dayton, Ohio, U. S., 21st June, 1876 for 15 years.

Claim.—1st. The socket ring E, fitting snugly into and against the head of the stuffing-box in combination with a packing-box G, having a convex edge d, conforming to the concavity of the said ring; 2nd. In combination with a piston rod B, a packing-box and a content chamber formed therein, the cleft rangs F, G, H, in the form of a content frustum, recessed in the said chamber and adapted to be wedged therein by the segum pressure whereby they are and adapted to be wedged therein by the steam pressure whereby they are made to automatically contract and class the said juston rod and form a steam tight foint therewith; Ird. In combination with the rings F. G. II. resteam agail joint increasing, and, in combination with the rings F, G. II, recessed into a chamber packing-box a piston rod and a spring S, the collar I, applied between the said spring mud the packing rings; 4th. The eleft packing rings F G, II, in the form of a conical frustum; 5th. The combination of the packing rings F, G II, having each a cleft i, with a conically recessed packing-box C, adapted to receive the said rings and to cause them to contract around the piston rod.

#### No. 6234. Improvements on Door Checks.

(Perfectionnements aux arrêtes-portes.)

Simon R. Billings, Flint, Mich., U. S., 21st June, 1876, for Syears. Claim.—The body a. finiges - Intel e, having incline g, recess h, stop s, shoulder j, in combination with the spring t, and hole n.

## No. 6235. Improvements on Soap for ing Clothes, &c.

(Perfectionnements au savon à laver le linge, &c.)

Henry DeLowis, Halifax, N. S., 21st June, 1876, for 5 years.

Claim .- A compound of sal-soda, soap, bornx, sulphate of soda and car-

# No. 6236. Improvements on Straw-cutters.

(Perfectionnements aux huche-paille.)

Andrew Tolton and David Tolton, Guelph, Ont., 21st June, 1876, for 5 years

Andrew totion and David Totion, Guelph, Ont., 2181 June, 16-16, for 5 years Claim.—1st. The attach, tent to a straw enter frame A, having a wheel B, carrying radial-enting knives of a fan box C, having a tube F, through which the cut straw is carried off by pneumatic force, 2nd. The attachment to the knife wheel B, of a straw cutter, of buckets or fans G, for the creation of a blast for forcing the cut straw through a pneumatic tube F, connecting with a fan box C, 3rd. The combination of a fan box C, having pneumatic tube F, and a knife wheel B, carrying fans or buckets G, for the creation of a pneumatic blast whereby the cut straw is carried through the tube to a place of deposit.

## No. 6237. Improvements on Harrows.

(Perfectionnements aux herses.)

William T. McGhee and Jacob Waters, Wheeling, Mo., U. S., 21st June, 1876, for 5 years.

1876, for 5 years.

Claim.—1st. The XX-shaped harrow frames I pivoted together laterally at their front and rear ends and suspendedly attached to the wheeled frame 2nd In combination with the "X frames I, binged together at their front and rear ends the shaft E, mounted on the wheeled frame C, having the winding diese F, F, and chains H II, counceting with the hirrows and oper ated by the tever handle J, 3rd. In the XX frames I hinged together at their front and rear ends the front ends, connected to the double tree K, and king bolt L, of the wheeled frame C; 4th. In combination with the XX frames double tree K, and king bolt L, the shaft E, having winding disc G, and chain M, connecting with the double tree K, of the wheeled frame; St. The XX harrow frames I, suspended at their front ends by the double tree K, and king bolt L, and chain M, and at their centres by chains II, II, in combination with the shaft E, having discs F, F, and G, for winding the chains by the hand lever J; 6th. The foot pawl O, pivoted to the axle A, and disc G, having ratchets Q, in combination with the shaft E.

# No. 6238. Improvements on Curtain Fixtures.

(Perfectionnements aux ajustages de rideaux.)

William E. Skinner, Milford, Mich., William O. Spaith, Tiflin, Ohio, and John Spaith, Cal., U. S., 21st June, 1876, for 5 years.

sonn Spauli, Cal., U. S., 2183 June, 1876, for 5 years.
Claim.—1st. The combination with the bracket A1, of the ratchet wheel
D. and the gravitation pawl G, said pawl being suspended between the sides
of said bracket below the bearing for the curtain toller; 2nd. A roller composed of sections telescoping for adjustment; 3rd. A curtain har or rod
composed of a tube and a rod sliding therein, said rod being provided with
means for retaining the pieces in frictional contact; 4th. The combination
with the corrugated roller C, of a flexible covering or jacket I; 5th. The
combination with the bracket A1, of the ratchet wheel D, pulley E, flange
f, gravitation pawl G, and the guard 11.

#### Improvements on Grain Binding No. 6239. Machines.

(Perfectionnements aux machines à lier le grain.)

Sarah L. Whitney, (Administratrix of the Estate of John H. Whitney deceased.) St. Louis, Mo., U. S., 21st June, 1876, for 5 years.

Claim.—lst. A twister for grain binders consisting of the rotating shaft C, having attached rigidly thereto the eccentric spindle a. provided with a laterally projecting finger or hip b; 2nd. The clauming device consisting of the stationary pine, and the spring lever or jaw d, the latter being provide eccentrically to the pine, whereby the wire is held tight when drawn more direction and released when drawn in the opposite direction, 3rd. The finger b, pin r and conical headen roller n 4th. The shaft C, provided with the rigidly attached spindle a, finger b, incline l, and cutting lip c, in combination with the stationary lip o, and the clamping device r, d.

## No. 6240. Flour and Grocery Bag.

(Sac à farine et épiceries.)

Thomas Phillips, Akron, Ohio, U. S., 21st June, 1876, for 5 years.

Claim.—A paper bag having one surface of blenched pulp for the sake of merchantable appearance and the other surface of unbleached or slightly bleached pulp for the sake of cheapness and strength.

## No. 6241. Improvements in Spring Beds.

(Perfectionnements aux lits à ressorts.)

John E. Townshend, Montreal, Que., 21st June, 1876, for 5 years.

Claim.—The mode and manner of securing together the mattress A, and spring bed B, leaving a sufficient space around the edges to admit of the clothes being securely held in place.

## No. 6242. Improvements in Door Knobs.

(Perfectionnements aux boutons des parles.)

William H. Gonne, Chatham, Ont., 26th June, 1876. for 5 years.

-lst. The spindle E, and nut A, passing entirely through knobs B. B, to prevent them from being pulled off or from being separated from necks C, G, and as a means of adjusting them to suit any thickness of door and The ribs on neck and on rose to prevent them from turning the one in the knob and the other in the door.

#### No. 6243. Improvements on Machines for Burnishing the Edges of Shoe Soles.

(Perfectionnements aux machines à polir la tranche des semelles des chaussures. )

John W. Dodge, Malden, and Charles S. Fifield, Boston, Mass., U. S., 26th June, 1876, for 5 years.

Claim.—1st. The combination of the sleeve A, shaft B, and bandle J: 2nd. The combination of sleeve A, rods K, and L, and frame M; 3rd. The combination of sleeve A, rods Ki, K, and I, and frame M. 4th The combination of sleeve A, shaft B, tang F, and rod G.

## No. 6244. Process and Apparatus for Obtaining and Purifying Parassine.

(Procédé et appareil de production et parification de la paraffine.) Francis X. Byerley, Cleveland, Ohio, U. S., 26th June, 1876, for 5 years.

Francis X. Dyerrey, Clevenian, Ono, C. S., 20th June, 1876, for 5 years, Claim.—1st. The crystallizing tank F, provided with a perforated bottom in combination with straining cylinders E, provided with removable bottoms; 2nd. Crystallizing the substance in cylinders by heat or cold, and straining off the waste by means of a pump, then purifying such crystalized substance in a receiver having a litering bottom with the proper solvents; 3rd. The shaft G, knife H, divided ant E, tongs L, jointed lever I, spring B, wornserew m, and right angle lever n, weight and cord O, and pulley P.

## No. 6245. Improvements on Stoves for Heating Barrels.

(Perfectionnements aux poeles de tonnelleries.)

Henry H. Hale and Edwin A. Shaw, Butlato, N. Y., U. S., 26th June, 1876. for 5 years.

Claim.—1st. The fuel receptuele A and draft cylinder B, provided with annular shield or hood C. 2nd. The combination with the fuel receptuele A, provided with inclined cars E, of the detachable draft cylinder B, and hook C.

# No. 6246. Improvements on Bags.

(Perfectionnements aux sacs.)

Henry Redden, New-York, U. S., 26th June, 1876, for 5 years.

Claim.—1st. The funnel-shaped collar B, having its ends screwed into the mouth of the bag A, a little distance within its edge to adapt it to be folded and rolled up within said mouth; 2nd. The combination of the strings C. with the mouth of the bag A, and with the funnel-shaped collar B.

## No. 6247. Improvements on Wrenches.

(Perfectionnements aux clés à écrous.)

Edward H. Knight, Philadelphia, Pa., U. S., 26th June, 1876, for 5 years.

Edward H. Knight, Philadelphaa, P.a., U. S., 26th June, 1876, for 5 years. Claim.—1st. A wrench in which its jaw (or jaws), is controlled during engagement with the aut orothe, article and it is permitted to yield to allow the jaws to rade freely over the corners or angles of said article, and then to take hold automatically of an other face of the latter without removal of the wrench; 2nd. A wrench in which one of its jaws C is connected to a sliding ter A, which is controlled by a lever J, when the jaws engage with the nut or other article, and it is permitted to yield on the return movement of the wrench so that the jaws C. D will ride freely over the cornersor angles of said article; 3rd. The sliding bar A, carrying the jaw C, and the controlling lever J, operating therewith; 4th. The sliding bar A, with stop b, the wrench handle with stop a, and the inwardly depressing spring 11; 5th. The jaw C, secured to the sliding bar A, and the jaw D, rendered adiistable relatively to the jaw C; 6th. The jaw C, and D, in combination with the sliding bar A, spring H, and the controlling lever J; 7th. The bandle B, made of holdy parts or sections and receiving one end of the sliding bar of a wrench; 8th. The stirrup F, with slotted plate d, in combination with the serew E, of the jaw of a wrench; ian of a wrench

#### No. 6248. Improvements on Machines for Welding Iron.

(Perfectionarments aux machines a souder le fer.)

John B. Wills, Reeseville, N. Y., U. S., 26th June, 1876, for 5 years.

Claim.—1st. The combination of the dies r, u, t, v, arranged to operate on that sided bars or rods, 2nd. The combination of the dies r, 7, and compound diet, u, made in one piece, arranged to operate on that sided bars or rods; 3nd. The combination of the dies r, v, and u, arranged to act upon round bars.

## No. 6249. Improvements on Car-couplers.

(Perfectionnements aux attelages de wagons.)

George Jones, Montreal, Que., 26th June, 1876 (Extension of Patent No. 1429), for 5 years.

Claim.—1st. The novel combination of the bunter head a, recesses b, and c, link d recesses hall f vertical passage a, pin h, and projections i, 2nd. The novel combination of the pin h, ball f, link d, and recesses c, and c; 3rd. The ball f.

## No. 6250. Apparatus for Making Cylindrical

Vessels. (Appareil à faire les vaisseaux cylindriques.) John Kisor, Nevada, Ohio, U. S., 26th June, 1876, for 5 years.

Claim.—1st. In combination with the cylinder A, having clamps a, b, b, c, and band b, the plate d, cylinders or rollers E. E, and frames C. F. F. 2ad. Incombination with the cylinder or block A, the rollers or cylinders E, E, having the annular flanges g, g, and grooves h, h, pivoted frames F, F, and frame G, or other support for the latter.

# No. 6251. Improvements on Burglar-alarms.

(Perfectionnements aux alarme-voleurs.)

Albert B. Schulenberg Windsor, Ont. (Assignee of John Woolner), 26th June, 1876, for 5 years.

Claim.—The strips a, and b, provided at the ends with emery and containing between them a charge of fulminate placed in the space between

the emery ands and retained in position by lopels d, dt, and band c, and also in evelet holes e, et, for affixing the strips so prepried acting in combination or in any othermanner.

## No. 6252. Method and Apparatus for Preserving Meat.

(Méthode et appareil de conservation de la viande.)

Kennard Knott, London, Eng., 26th June, 1876, for 5 years.

Claim—1st The circulating apparatus composed of the fin blowers B, the treezing box C, having a space b, above it the pipe coil or coals D, contained within it and the perforated air distributing pipes F in combination with a packing chamber A, whereby a circulation of the game body of coild air is a packing chamber A, whereby a circulation of the same body of cold art is manufacted in the chamber without contact with the refrigerating agent; 2nd, The freezing box C provided with distributing alrehest E, and a conforced D extending through the refrigerating agent connecting with the air chest, 3nd. The combination of the slotted bearers e, and screws g, for securing the same with the flanged columns f, having a series of perforations.

### No. 6253. Improvements on Apparatus for Pulverizing Ores, &c.

(Perfectionnements aux appareils à broger les minérais, &c.) Robert M. Fryer, New York, U. S., 26th June, 1876, for5 years.

Claim .- 1st. The combination of a chamber A, arranged to rotate, revolve Claim.—1st. The combination of a chamber A, arranged to rolate, revolve or oscillate on or about a horizontal axis, and a weight or arm E, so contained within said chamber that by the rotation revolution or oscillation of the said chambe the said weight or rain, and the material placed therein to be operated upon, may be caused by gravitation to have a reciprocating motion falling from one end of he said chamber to the opposite end, 2nd. The combination of a series of chambers A and contained weights or rains E, with a central shaft S, around which said chambers are arranged for operation, 3rd. The combination of a series of crushing or pulverzing chambers A, and contained weights or rains E, with a centrally arranged amalgamatization between the combination of a series of crushing or pulverzing chambers. ingehambers I.

## No. 6254. Improvements in Tessellated

Floors. (Perfectionnement des parquets tesselles.,

Samuel P. Groocock, New York 1' S. 26th June, 1876, for 5 years,

Claim.—The composite piece or section A, for marquetry flooring formed of wooden blocks b, arranged in a suitable design or pattern and the asphalt backing B, having a tongue and grove connection.

## No. 6255. Improvements on Packing Boxes.

(Perfectionnements aux boiles.)

Harrison N. Hart, Sandwich, N. H., U. S., 26th June, 1876, for 5 years.

Claim.—A packing box for lamp channeys having a series of triangular compartment E. F. constructed and arranged multernate order between the dividing walls C. B. and D.

## No. 6256. Machine for Lifting Weights.

(Machine a lever les fardeaux.) Lafevette A. Melburn, Napanec, Ont., 26th June, 1876, for 5 years.

Claim.— The combination of the frame A, fulcrum rod B, head C, friction loops D, and F, lug E, link G, and lever H.

#### No. 6257. Improvements on Carriages.

(Perfectionnement, aux voitures.)

Simon P. Graham, London, Ont. 39th June, 1876 (Extension of Patent No. 1041), for 5 years.

Claim.—The manner of construction and making out of sheet from the bracket body A, in connection with the worden frame B, sill and body loop C, and seat D, in connection with the corner from L, and corner from and handle combined K, thange casing M and fillet under the top part of seat N, the iron bracket F and the manner of making reach G, in connection with the fifth wheel H and inverted V shaped from L, and the construction of the spindle seat in connection with the hollow spindles with the iron mil M, bent frame for bottom of seat O.

### No. 6258. Improvements on Carriages.

(Perfectionnements aux voitures.)

Simon P. Graham, London, Ont., 30th June, 1876 (Extension of Patent No. 1041), for 5 years.

## No. 6259. Apparatus for the Extraction of Gold from Auriferous gravel.

(Appareil pour l'extraction de l'or du gravier aurifere ) Philip Cadell, Victoria, B. C., 7th July, 1876 (Extension of Patent No. 3489), for 5 years.

## No. 6260. Improvements on Fire Hydrants.

(Perfectionnements aux bornes-fontuines.)

Joseph P. Galingher, St. Louis, Mo., U. S., and Jones M. Chapman, Sher-brooke, Que., 7th July, 1876, for 5 years.

brooke, Que., 7th July, 1876, for 5 years.

Claim—1st. The vertical shaft N, having cam Nt, at lower end, in combination with cam yoke O, and valve stem I, and handle Nz, for operating slide valve II. working in chamber G. 2nd. The valve I, composed of leather dises it, and secured by screw collars it, independently of the conical part it in combination with a screwed shank I. working up into the hollow-handle D, with sleeve nut m, at its flanged or lowerend and held firmly in its place by cap E, to prevent the vertical movement of the hollow-handle D, and sleeve nut m, for operating valve I: 3rd One or more delivery pipes arranged with suitable valves to shat off the delivery pipes separately and allow one or more orgines to connect and work or detach without interfering or stopping each other while working in combination with valve chamber A, and escape passage f, b, which drains all the water from the delivery pipes and prevents all danger of freezing. and prevents all danger of freezing.

#### No. 6261. Swiss Bell Piano.

(Piano à clochettes suisses.)

William H. Wood, Port Rowan, Ont., 10th July, 1876, for 5 years.

Claim.—lst. The swiss bells A, suitably arranged within a casing N, and provided with a sounding board M. in combination with the hammers B, pivoted to the frame C, and connected by the struts D, to the keys E; 2nd. The treadle I, connected by the rod H, to the bar F, which is provided with the arms G, in combination with the frame C, carrying the hammers B.

#### No. 6262. Improvements on Skate Attach-

ments. (Perfectionnements aux attache-patins.)

Charles Brewster (Assignee of Charles G. C. Simpson), Montreal, Que., 10th July, 1876, for 5 years.

July, 1876, for 5 years.

Claim.—1st. The combination of clamp g, cable k, and friction block l; 2nd. The combination of the clamp g, cable k, friction block l, with bars e, and r, and screwed spindle w: 3rd. The combination of the cable k, block l, having screwed spindle a1, bracket b1, and nut e1; 4th. The combination of the clamp or clamps g, bell crank or bell cranks a2, and b2, and bar e5; 5th. The combination of the clamps g5, bell cranks a2, b3, bar e7, screwed spindle w5, and clamps f5; 6th. The combination of the clamp or clamps g1, links a3, a3, and a3; 7th. The combination of the clamps g3, links a3, the clamps being attached to the extensions of a3), and bar e5.

# No. 6263. Improvements on Railway Wheels.

(Perfectionnements aux roues de railroutes.)

Anson Atwood, Brooklyn, N. Y., U. S., 10th July, 1876, for 5 years.

Anson Atwood, Brooklyn, N. Y., U. S., 10th July, 1876, for 5 years. Claim.—1st. A steel or iron tire for railway-wheel having its inner surface, corrugated and presenting a waved line in cross-section; 2nd. A body for a railway wheel, the outer surface of the rim of which is corrugated, presenting a wave line in cross-section; 3rd. A body for a railway wheel, having on its rim a flauge F, in combination with the pins or projections C, G; 4th. The combination of a tire having a corrugated outer surface with a rim of the central portion of the wheel having a corrugated outer surface forming a chamber between said surfaces; 5th. A florous packing for a railway wheel treated with glycerine or its equivalent; 6th. A packing of hemp or other fibrous material when used as an interlocking packing between the corrugated surfaces of the tire and the body of the wheel; 7th. A wrought iron ring shrunk upon and into a dovetail groove formed upon the central portion or body of the wheel; 8th. The combination of a tire having its inner surface corrugated, both presenting a waved line in cross-section in combination with an interlocking fibrous packing material. It for the purpose of holding the tire upon the central portion or wheel body whose rim has its outer surface corrugated, both presenting a waved line in cross-section in packing the rime with the siner surface corrugated and the central portion of wheel body whose rim has its outer surface corrugated, both presenting a having the tire with its inner surface corrugated and the central portion or wheel body whose rim has its outer surface corrugated, both presenting a waved line in cross-section forming an annular chamber between the tire and the rim which chamber is fitted with a packing of hemp or other fibrous material interlocking and securing the tire to the central portion or body of the wheel in combination with the pins G, G, and sockets H, H; 10th. A railway wheel composed of the following parts; First, a steel or iron tire with its inner surface corrugated presenting a waved line in cross-section; Second, a wheel body with its corrugated rim presenting a waved line in cross-section; Third, a flange on the wheel body with pins or projections which prevent the turning or sliding of the tire upon the central portion or wheel body; Fourth, a fibrous packing which interlocks and secures the tire upon the body of the wheel; Fifth, a wrought from ring to form a tight joint over the packing. over the packing.

# No. 6264. Bark Rasping and Cutting Machine.

(Machine à raper et couper l'écorce.)

Samuel R. Thomson, Portsmouth, N. H., U. S., 10th July, 1876, for 5 vears.

Samuel R. Thomson, Portsmouth, N. H., U. S., 10th July, 1876, for 5 years.

Claim.—1st. In a bark cutting machine, a rotary cutter composed of collars having teeth projecting from their peripheries and located on a shaft or arbour with the teeth arranged in substantially straight rows or series composed of teeth which are separated by spaces of not less than twice their own width, and spiral rows or series composed of teeth on the successive collars whereby the cutter is adapted to reduce the bark into particles without liability of the teeth becoming clogged; 2nd. The slotted bed plate M, combined with the threaded adjustable standards M; rising from the frame B, and provided with jaw nuts n; 3rd. The horizontally and vertically adjustable bed plate M, combined with the rotary cutter A, located in fixed bearings; 4th. The feed roll E, combined with the horizontally and vertically adjustable pivoted arms F, F; 5th. The pivoted arms F, F having the slots J, J, combined with the threaded standards it, having the nuts c; 6th. The horizontally and vertically adjustable feed roll E, combined with the rotary cutter A, located in fixed bearings; 7th. The combination of the horizontally and vertically adjustable feed roll E, combined with the rotary cutter A, located in fixed bearings; 8th. A feed roll having teetharranged in parallel peripheral rows and straight longitudinal rows the latter being composed of teeth in alternate peripheral rows; 9th. The adjustable bed plate M, having the downwardly projecting apron m, combined with the cutter A, and chute or receptacle C; 10th. The clearer V, attached to the arms F, in combination with the feed roll E, 11th. The hopper T, having the hinged flaps or doors U, U, combined with the feed roll E, and rotary cutter A; 12th. The flap U, hinged to the bed plate M, and adapted either to form an extension of the bed plate or a covering for the side of the hopper.

## No. 6265. Candy Marble Machine.

(Machine à dragées de candi.)

Bernhard Stern and Herman Stern, Chattanooga, Ten., U.S., 10th July, 1876, for 5 years.

Claim.—Ist. The combination of the bed C, and pivoted bottom cutter A, whereby the balls may be readily dumped; 2nd. The combination of the bed C, the pivoted bottom cutter A, and the sliding cutter B, provided with guards E, F.

# No. 6266. Improvements on Preserving Fruit,

&c. (Perfectionnements dans la conservation des fruits, &c.) Susan Peebles and Elizabeth E. Mefford, Adrian, Mich., and Charles E. Clarke, Chicago, Ill., U. S., 10th July, 1876, for 5 years.

Claim.—lst. The mode of preserving fruits and vegetables that is subjecting them without removing the natural juices to the action of sulphurous acid and then drying the same; 2nd. A preparation consisting of dried fruits or vegetables from which the material juices have not been expressed impregnated with sulphurous acid.

## No. 6267. Improvements on Bevels, Trysquares, Level Rules and Compasses.

(Perfectionnements aux sauterelles-équerres et règles et compas.) William Ascough, Buffalo, N. Y., U. S., 10th July, 1876, for 5 years

Claim.—1st. The combination with the stock A, of the clamp-socket D<sub>1</sub>, and the clamp E, said clamp being operated by the set screw F; 2nd. The combination with the stock A, of the receptacles H, H1, and the caps I, I<sup>1</sup>; 3rd. The combination with the stock A, of the tongue B, having the tapering knife edge B1, clamp socket D, clamp E, and set screw F.

## No. 6268. Improvements in the Process and Apparatus for the Removal of Night Soil.

(Perfectionnements dans les procédés et appareils à enlever les matières excrémentielles.)

Richard S. Gillespie, New-York, U. S., 10th July, 1876, for 10 years.

Richard S. Gillespie, New-York, U. S., 10th July, 1876, for 10 years.

Claim.—1st. The method of removing night soil and analogous matter by connecting such matter through an air tight conduit with a tight transportable vessel exhausting the air in the latter by a jet and thereby filling the transportable vessel to be taken away and emptied; 2nd. The method of withdrawing night soil and like matter from its receptacle into a transportable vessel and at the same time deodorizing its fetid vapours and gases, which consists in connecting the matter by an air tight conduit with an airtight transportable vessel, and exhausting the air from the vessel outwardly through its extended outlet, or through that outlet and through either a shower of water or burning matter or through the three namely, an outlet, the water, and burning matter; 3rd. The method of loosening night soil and like matter preparatory to its removal, which consists inforcing a stream of air or water which may be previously disinfected it preferred, and forcing it into the matter to be loosened by a jet of an expansive aeriform fluid, such as steam carbonic gas, or compressed air or water; 4th. The combination of an air tight transportable vessel, an ejector operated by an aeriform fluid, a suction conduit; 5th. The combination of an air tight transportable vessel, an ejector operated by an aeriform fluid, a suction conduit, with the extended outlet of the vessel, and or with an outlet, and either a condenser or a deodorizer or with such outlet condenser and deodorizer; 6th. The combination of internal conduit, with the extended outlet of the vessel, and or with an outlet, and either a condenser or a deodorizer or with such outlet condenser and deodorizer; 6th. The condenser or or pine I. water chamber, vapour and gas chamber, communicating valve, distributing nozzle f, and suitable inlets and outlets; 7th. The combination of pipe I, within or without the cesspool injector B, and pipe H: 8th. The combination of suction pipe F, vessel A, ejector B, gas generator E, pipe  $b_1$ , and suitable valves for controlling the ejection fluid and the sewage.

#### No. 6269. Jar Clamp and Cover.

(Vis et couvercle de pot.)

Francis L. Bodine, Philadelphia, Pa., U. S. (Assignee of Thomas Hipwell), 10th July, 1876, for 5 years.

Claim.—1st. A screw clamp or locking device constructed with short hooks, adapted for securing it to the lid, and also to the long hooks, adapted for securing the lid to the jar; 2nd. The combination of the lid B, and screw clamp C, constructed with one or more crooks or bends F.

# No. 6270. Swivel Head for Diamond Drills.

(Griffe de foret à diamant.)

Milan C. Bullock, Chicago, Ill., U. S., 10th July, 1876, for 5 years.

Milan C. Bullock, Chicago, Ill., U. S., 10th July, 1876, for 5 years.

Claim.—1st. The combination of a screw shaft C, and a hydraulic vessel e, provided with a gauge e2, which indicates the pressure of the drill carried by said screw shaft upon the rock; 2nd. The combination of a screw shaft C, and a hydraulic vessel e1, provided with a guage e2, which indicates the weight of the drill rod carried by said screw shaft; 3rd. The combination with the hydraulic cylinder e1, of the roller G, and discs a, a, one of which is fitted to slide in said cylinder like a piston; 4th. The combination with the screw shaft C, feed nut F, counter-shaft M, and gears N, and O, of the gears K, L, hubs m, and movable plunger S, with its key g; 5th. The combination with the hubs m, m, m, and gears L, L, L, of the slotted counter shaft M, plunger S, keys g, and K, stripping handle R, hubs u, u, and ring T; 6th. The combination with the hub W, secured to the bearing D1, of the counter shaft M, and movable plunger S, with its key g.

# No. 6271. Horse-shoe Nail Machine.

(Machine à clou à cheval.)

John B. Wills, Keeseville, N. Y., U. S., 10th July, 1876, for 5 years.

## No. 6272. Improvements on Sap Evaporators.

(Perfectionnements aux évaporatoires de sucreries.)

John P. Baldwin, Barnston, Que., 10th July, 1876, for 5 years.

Claim.—1st. The pan B, having its bottom ribbed or corrugated to form independent chasms  $e_r$  within and without the pan; 2nd. The pan B, having

Its bottom formed of a series of independent ribs or corrugations e, dipping rearwardly; 3rd. The pan B, having one or more portions of its bottom corrugated to dip rearwardly in combination with a pan having a plain bottom placed forwardly of the same; 4th. The pan B, having a rear section corrugated and dipping rearwardly, and a forward portion plain on the bottom; 5th. The pan B, having a rearward section corrugated to dip rearwardly and the forward portion level either plain or corrugated in combination with a furnace A; 6th. The pan B, having a transverse partition dividing the same in front and rear sections; 7th The spout C, connecting with the bottom of the ribs at the rear end of the pan and arranged transversely thereto, to draw off the boiler sap. its bottom formed of a series of independent ribs or corrugations e, dipping the boiler sap.

# No. 6273. Grain Cleaning Machine.

(Machine à nettoyer les grains.)

James Higginbottom and Edward Hutchinson, Liverpool, Eng., 10th July, 1876, for 5 years.

Claim.—1st. The combination of the stationary case E, having a discharge spout S, on the periphery intermediate between top and bottom with the vertically revolving disc D; 2nd. The combination in a grain scouring chamber, containing vertically revolving disc or discs and into which the grain has free admission so that it is kept constantly full with a slide or other regulator in the exit pipe: 3nd. The combination of the stationary case E, with the hood H, and the slide K; 4th. The combination of the diaphragms R, with the discs D, the washer plates F, and the casing E.

#### Street Lamp. (Lampe de rue.)

Joseph S. Woods, New York, U. S., 10th July, 1876, for 5 years.

Joseph S. Woods, New York, U. S., 10th July, 1876, for 5 years.

Claim.—1st. A lamp frame made of hollow oil holding tubes, supporting the glass, in connection with an oil reservoir at the lowermost part of the frame below the burner; 2nd. A glass supporting frame for street lamps, made of oil holding tubes, with horizontal ring-shaped top tubes, forming spaces for the transparent signs; 3rd. The combination of the oil holding glass supporting tubes and of the oil reservoir at the lower part, with an adjustable heating and illuminating burner to generate gas to sustain the oil in the tubes and feed it gradually to the burner; 4th. The combination of a lower stationary disc section of the burner having a central projecting seat and jet holes, with a regulating top section, screening thereon to heat up the gas generating tube and supply the gas to the illuminating burner.

## No. 6275. Improvements on Odometers.

(Perfectionnements aux Odometres.)

Adam Chambers, Pueblo, Col., U. S., 10th July, 1876, for 5 years

Claim.—1st. The two discs i, and o, with their respective stops turning upon the shaft of the wheel h, in combination with the sleeve f, lever  $g_i$ , stationary incline 25, second counting wheel l, and its incline 40; 2nd. The combination with the odometer of a clock movement and a stop operated by the odometer so as to compute the period of tir.e in which the vehicle is in motion; 3rd. The fly stop t, slide 34, and ejector 35, operated by the spring lever u, that receives motion from the lever e, in combination with the clock movement and odometer register.

#### No. 6276. Screw Threading Machine.

(Machine à fileter les vis.)

Frank P. Sheldon, Providence, R. I., U. S., 10th July, 1876, for 5 years.

Frank P. Sheldon, Providence, R. I., U. S., 10th July, 1876, for 5 years.

Claim.—1st. The combination of the following instrumentalities for causing the nick in the head of a screw blank to be set in a given position before presentation to the holding jaws, viz.: a suitable feeding mechanism for selecting blank one by one b, holding jaws E, E, and a revolving blank turner C;
2nd. The combination of the spring fingers b, arranged to be capable of a sidewise movement with a revolving blank turner C, for enabling the screw blank to become engaged with the blank turner and afterward be disengaged therefrom; 3rd. The combination of the following instrumentalities for changing the backing off motion after the threaded screw is clear of the dies to the motion for threading the next blank, viz.: an adjustable collar M, partaking of the longitudinal movement of the die holder, a shifting clutch I, operated by suitable mechanism, and the revolving gear H1, inducing by suitable gearing the requisite rotation for cutting the thread; 4th. The combination of a sliding bar K, having ear pheces K2, L, an adjustable collar M, partaking of the longitudinal motion of the die holder, a shifting clutch I, operated by the cam P, and alternately engaging pins 0, 07, at the times determined by the said sliding bar and collar and gears H, H1, revolving in opposite directions, for the purpose of automatically changing the direction of the rotation of the die arbour; 5th. The combination of the sliding bar K, the levers N, N1, and the spring latches n, n1; 6th. The combination of the die holder, with the system of cams on the hollow shaft S, by means of a vibrating clutch gear connecting such shaft with the source of motion and the lever U controlling a stop cach n, l, whereby the said cam shaft may be stopped while a blank is under the action of the cutting die and be started again after a blank has been discharged from the jaws or in case a blank has not been presented to the die; 7th. The combination in an automatic screw threading m

## No. 6277. Improvements on Drain Ploughs.

(Perfectionnements aux charrues à rigoles.)

Hermase Larose, Verchères, Que., 10th July, 1876, for 5 years.

Résumé.—La combinaison avec les autres parties d'une charrue ordinaire A, du couteau surnuméraire F, de la glissoire C, des garants D, et de la rallonge B, assemblés et joints ensemble, au moyen de rivets ou de chevilles tarandés.

Claim.—The combination with the other parts of an ordinary plough A, of the additional coulter F, slide C, guards D, and the extension E, jointed and clamped together by means of rivets or screw bolts.

## No. 6278. Improvements on Window-

fasteners. (Perfectionnements aux arrête-croisées.)

Luc D. Gélinas, La Baie, Que., 10 Juillet, 1876, for 5 years.

Résumé.—La combinaison de la tige A, avec ses dents ou accrocs F, et la crampe G, avec la croisée D, ou la jalousie F, etc.

Claim.—The combination of the rod A, with its teeth or serrations F, and the staple G, with the sash D, or the blind F, &c.

# No. 6279. Post Hole and Well Digger.

(Sonde de puits et de pieux.)

Isaac M. Perry, State Cut, Ind., U. S., 10th July, 1876, for 5 years.

Claim.—The combination with digger blades A, of the head B, one or more handle sections C, and cap D.

## No. 6280. Improvements on the Manufacture of Horse Shoe Nails and Cutters for the same.

(Perfectionnements dans la fabrication du clou à cheval et aux cisailles pour cet objet.)

George P. Clapp, John A. Pillow and Randolphe Hersey, Montreal, Que., 10th July, 1876, for 5 years.

Claim. — 1st. The cutters a, having grooves c, surfaces d, and head b, in combination with the cutter e, having a corresponding configuration; 2nd. The cutter a, having the grooves c, surfaces d, and bead b, or other configuration formed on its side; 3rd. The plate f, corrugated on both sides and rolled to the proper width; 4th. A horse shoe nail having a bevelled head produced by shearing from the end of a plate corrugated on both sides turned over at each cut of the cutters.

## No. 6281. Improvements on Breech-loading Fire-arms.

(Perfectionnements aux armes à feu chargeant par la culasse.) William P. Marston, Toronto, Ont., 10th July, 1876, for 5 years.

Claim.—1st. The circular grooves A, A, and slot or groove a, in breech block, 2nd. The circular projections or ribs B, B, on the under side of the barrel corresponding with and fitting into the grooves A, A; 3rd. The extractor C, with pin e; 4th. The screws d, d, fitting into the ribs B, B; 5th. The combination of the grooves A, A, and projections B, B, with the breech block and barrel

No. 6282. Waggon Brake. (Frein de wagon.)

Elisha H. Wheeler, Canton. Mo., U. S., 10th July, 1876, for 5 years.

Claim.—1st. The com. Lion of levers B, and C, when constructed and arranged so that lever C, shall cross lever B, at 1, and being provided with a hole 4, for the attachment of a connecting rod; 2nd. The combination of levers B, and C, pawl bracket L, and segment A; 3rd. The combination of pawl bracket L, withits lug 7, lever C, and lever B.

#### No. 6283. Pad for Interfering Horses.

(Entravon pour les chevaux qui s'entaillent.)

Henry G. White, Palmyra, N. Y., U. S., 10th July, 1876, for 5 years. Claim .- A strap A, wings d, d, and claw b.

### No. 6284. Ventilating Stove Board.

(Plaque à ventiler les poëles.)

Samuel Magill, Hamilton, Ont., 10th July, 1876, for 5 years.

Claim.-A plain or ornamental stove board A, constructed with bevel b,o, g, curve d, provided with ventilating holes e, and bell mouthed ventilator B, the same made either of cast iron with any ornamental pattern or stamped out of sheet metal in whole or in sections and put together.

## No. 6285. Improvements on Chairs.

(Perfectionnements aux chaises.)

Asher B. Stevens and Cheney Kilburn, Philadelphia, Pa., U. S., 10th July, 1876, for 5 years.

Asher B. Stevens and Cheney Khourn, Philadelphia, Pa., C. S., Ioun Suly, 1876, for 5 years.

Claim.—1st. A flexible supporting structure consisting of two curved springs D, D1, the hangers B, B1, attached to the object to be supported and secured to the upper ends of the springs and bars E, to which the lower ends of the springs are attached; 2nd. The springs D, D1, made of one bent bar in combination with the hangers B, B1, and reinforcing plates K, through the medium of which the said springs are secured to the hangers; 3rd. The combination of the projections m, m, secured to the bars E, and having rubber pads n, with the springs D, D1; 4th. The combination of a chair having spring supports with a base H, having a ring 1, and a central pin or bolt on which the chain can turn; 5th. The combination in a chair of the seat A, the springs H, H1, and standards M, constructed and adapted to the frames D, D1, or to the seat for the protection of the springs; 6th. The combination of the bars B, B1, the seat supporting springs H, H1, the standards M, and the rod N, by which the said standards are connected together; 7th. The combination in a spring tilting chair of a base A, and seat B, pivoted together with the curved springs D, D1, secured to the base and to the seat; 8th. The combination of the serve h, and its projection i, for limiting the vibration of the seat; 10th. The combination of the base B, and its screw h, and the seat A, and its connections with the bar n, bent forward at the ends.

No. 6286. Improvements on Steam Pumps.

## No. 6286. Improvements on Steam Pumps.

(Perfectionnements aux.pompes à vapeur.)

Walter H. Laurie, Montreal, Que., 10th July, 1876, for 5 years.

Claim.—In combination with the steam chest of any direct acting steam engine the combination of the dog H, pivoted in the steam port and acting directly in the slide valve to give it initial motion, with the auxiliary slide valve N, operating by means of the passages m, and piston M, the piston valve N, otherwise the current of steam.

# No. 6287. Improvements on Hemmingway's School Scats.

(Perfectionnements aux banes d'écoles dits " Hemmingway." Charles B. Record Moneton, N. B., 10th July, 1876, for 5 years.

Claim .- 1st. The set serew , 2nd. The combination of set serew feather

No. 6288. Horse Power Link. (Maille de manege.) Barnard L. Olds, St. Albans, Vt., U.S., 10th July, 1876, for 5 years.

Claim.—The horse-power link composed of the cast iron body and wrought iron back the latter terminating at each end in a curve forming a bearing for a journal within it.

## No. 6289. Machine for Washing Clothes.

(Marhine à laver le linge.)

Catterick Packham, Guelph, Ont., 10th July, 1876, for 5 years.

Claim.—1st. The form and position of the ribs r, and channels F, on the bottom of the tub A, the ribs rt, and channels Ft, on disc G. 2nd The guide bar K, with pins n, n, operating in the top rail H, 3rd. The centre bar I, with spring O, on disc G; 4th. The combination of the before chained parts, viz ribs r, r channels I, Ft, guide bar K, with pins n, n, centre bar I with spring O, with the tub A, disc G, bench D.

#### No. 6290. Apparatus for Burning Saw-dust,

&c. (Appareil a brûler le bran de seie, etc.)

Richard Hodson, London, Eng., 11th July, 1876, for 5 years.

Richard Hodson, London, Eng., 11th July, 1876, for 5 years.

Claim.—1st. The combination in a fuel feeding apparatus, of the hopper B, Bi, chamber C, propelling serew D, chute C, feed trunk E, fan or blower F, motive power engine G, and steam supply cocks m, arranged so as to enable the attendant to supply fuel mingled with a blast of air at any desired rate to a furnace; 2nd. The arrangement of gearing fi. h, differential chain pullies I, and K, and chain i, for transmitting motion from the shaft of the engine G, to the propelling screw b, so as to allow of the speed of the propoliting screw being readily adjusted relatively to the speed of the fan or blower and of the action of the apparatus, being arrested automatically should the feed passages become choked, 3nd. The tapering mouth E1, of he feed trunk E, constructed with hinged adjustable lips e, et.

## No. 6291. Thill Coupling. (Ajustage de limonière.) Osmore O. Roberts, Northampton, Mass., U. S., 11th July, 1876, for 10 years.

Claim .- The combination of the shaft from B, and its T-pivot C, with the jack having the notch H, opening into one of its pivot holes and being located relatively to the working position of the shaft iron, to prevent the escaps of the said iron, the combination of the set seres G, or its equivalent with the T-pivot C, of the shaft iron, and with the jack D.

#### No. 6292. Freezing Apparatus.

(Apparcil de congélation.)

Charles W. Gauthier, Sandwich, Ont., 11th July, 1876, for 5 years.

Ciaim.—14. The partition D, having top and bottom air circulating apertures I, J, dividing the refrigerator into two or more compartments; 2nd. The arrangement of the ice chambers I, around the compartments K, L, shelves E, within the same and duets C, to carry off waste water, in combination with partition D. Claim.-1st. The partition D, having top and bottom air circulating aper-

#### No. 6293. Cooking Stove. (Poele de cuisine.)

Edward Bartlett, Renfrew, Ont., 11th July, 1876, for 5 years.

Edward Bartlett, Renfrew, Ont., 11th July, 1876, for 5 years.

Claim.—1st. The form and manner of placing the pieces K, K, to form a flue for the equal distribution of heat over the stove. 2nd. The position and shape of the plate G+, 3rd. The use and shape of the inside plate G, for covering the overs Y, Y, and the combination of the plate G with plate Gi, covering the space between K, K, immediately above the fire: 1th. The placing of the fire box in or through the centre of the stove between the overs Y, Y; 5th. The construction of the fire bars or grate, viz with solid pieces at each end to prevent the cold air entering otherwise than through the fire, the combination of the bars or grate with the adjustable grate or damper for the regulation of draft; 6th. The shape and combination of the fire and oven doors, with the grooves in the top and bottom of the stove; 7th. The construction and combination of the fixed pieces J, J, J., with the top C and the bottom T, and fire-box X, with doors D, D, and bars or grate H, and dust pan F, the combination and construction of the whole parts, 8th The construction and application of the portable overs. The construction and application of the portable ovens.

#### No. 6294. Improvements on Sewage Tanks.

(Perfectionnements aux réservoirs d'équats.)

Renben A. McCauley, Baltimore, Ind., U. S., 11th July, 1876, for 5 years.

Claim.—1st. The deodorizer and safety valve B, combined and connected with, and operating by direct pressure from the ventilating tank or sowage receptacle A, 2nd. The combination of the ventilating sewage receptacle A, technique and safety-valve B, and stand pipe C. 3rd. In combination with the tank A, having the discharge nozzle, the valve C, and plug D, connected by the links b.

#### No. 6295. Barn Door Hanger.

(Penture de porte d'étable.)

Samuel H. Moore and Edward Y. Moore, Chicago, Ill., U. S., 11th July, 1876, for 5 years.

Claim.—1st. A barn door hanger in which the hub of the rotating wheel revolves within a series of loose chilled iron rollers; 2nd. The strap A, formed with the circular plate B, having the two circular concentric flanges a. b., 3rd. The wheele, provided with projecting rin and hollow hub F; 4th. The combination of the circular plate B, with concentric flanges a, b, the wheel C, with hub F, and the loose chilled from rollers D, D, placed between the hub F, and the flange a, and the whole closed by the cap E; 5th. The projecting lags m, on the rim of the cap E, in combination with the notches n, in the flange b, on the plate B.

#### No. 6296. Fare Register.

(Registre de billets de passage.)

William H. Hornum, New-York, U. S., 11th July, 1876, for 5 years.

William II. Hornum, New-York, U. S., 11th July, 1876, for 5 years.

Claim,—1st. A registering mechanism composed of a unit disc and a tea disc which are geared together with each other, the unit disk being provided with apertures n, arranged on a convolute curve in combination with a slide or prime mover, and with a general registering mechanism: 2nd. In combination with the slide or prime mover E, the slotted discor ratchet wheel q, rod o, and cam groove r, 3rd. The combination of a latch at, with the slide or prime mover E and with the registering mechanism C; 4th. The combination of the single trip register C, composed of discs G, 11, with the general register D, narm M, and slide or prime mover E. 5th. The combination of diaphragms of, of wire gauge with perforations nt, in the slides of the case to keep out the dust without interfering with the sound of the alarm.

## Boot Tree. (Tige de botte.)

Joseph K. Feick, Harrisburg, Ont., 11th July, 1876, for 5 years.

Claim.—1st. The combination with the parts A, B, of the boot tree, the screw shaft E, cam nats C. D, and plate F. 2nd. The jackets G, and screws H, in combination with the parts A and B, 3rd. The last plate K, for reping the part B and receiving the thrust of the part A when so stopped.

#### No. 6298. Improvements in Eye Cups.

(Perfectionnements aux baignoires oculaires.)

Philetus J. Stevens, New-York, U.S., 11th July, 1876, for 5 years.

Claim - The eye cup A with valves g, connecting tube P, and rubber ring R.

No. 6299. Curd Knife. (Conteau de fromagera.)

Alonzo Sedgwick and Edwin B. Sedgwick, Poughkeepsie, N. Y., U. S., 11th July, 1876, for 5 , ears.

Claim .- Ist. A curd cutter constructed of a series of parallel blades sharp end on both of their edges and with transverse blades sharpened on both of their edges and with transverse blades sharpened on the manner, combined with one or more metallic head plates. 2nd. A series of double edged knives, constructed with lugs combined with slots formed in one or more metallic head plates; 3rd. A series of parallel double edged knives, one or more double edged transverse knives secured thereto—the knives secured to a non-porous head.

#### No. 6300. Boot Tree. (Tige de botte.)

James H. Sampson, Paris, Ont., 11th July, 1876, for 5 years.

Claim.—The combination of the lever F, adjusting serew G, and mut H with the wedge piece, or slide of a boot tree having a series of backs with differential centres.

#### No. 6301. Weft Thread Knitting Loom.

(Métier à tricotter la trame.)

Charles L. Spencer, Providence, R. I., and Samuel W. Pingree, Lawrence, Mass., U. S., 11th July, 1876, for 5 years.

Mass., U. S., 11th July, 1876, for 5 years.

Claim 1st.—A machine for knitting cloth in which a weft or filling thread is inserted or woven into the stickes, the arrangement of the needles, in order that they stand at different angles to the axis of the jack or shde to which they are attached, and thus form a path between their upper ends for the passage of weft thread; 2nd. A machine for knitting cloth in which a weft thread is inserted or we en, the arrangement of a portion of the needles with an outward inclination from the axis of the jack or slide which carries them, whereby they are made susceptible to the action of the cloth at the time of taking the strich and are thereby brought into a line concentrae withthe other needles at that time; 3rd. The combination of the automatically adjustable tal e up rollers, with the reciprocating needles and the needle cylinder whereby the required tension is put upon the goods white being woven, 3th the combination of the automatically adjustable take up rollers with the shaft X tachet R, and regulating mechanism h, h, and 187 5th. The combination of the gear wheel H, revolving frame J, fixed wheel P, and shaft X, with as automatically operating worm wheel M.

NO 632002. Processional A printing for A publication.

## No.6302. Process and Apparatus for Amalgamating Metals and Machine for Washing Ores.

(Procedé et appareil pour amalgamer les metaux et machene a laver les minerais.)

Thomas A. D. Forster and George J. Pirmin, Norristown, Pa., 41th July

1876, for 5 years.

1876, for 5 years.

Claim—1st. The process of amalgamating metals by projecting mercury and ground or pulverized ore together through the medium of a current of steam or air, forming a sand blast., 2nd. The method of amalgamating metals are the steam of the and ground or pulverzed ore together through the medium of a current of steam or air, forming as and blast. 2nd. The method of sandgamating metaby a continuous operation consisting in feeding ground or pulverzed or into a receiver or cylinder where in the act of falling it is impinged by a current of steam or air which carries aid oroin the form of a blast through said cylinder, mercury admitted with the steam, air or ore being at the same time carried along and producing smalgamation without cessation of feed 3rd. The combination of cylinder A, hopper or feeding device. B, steam or air pipe D, and mercury pipe E, the several parts being relatively arranged to produce a blast of mingled mercury and ore. 4th The combination and arrangement of the cylinder A, hopper B, and steam or air pipe D said pipes being advanced far enough into said cylinder to come within the circum ference of the hopper neck b. 5th. In combination with the steam or air pipe D, the mercury pipe E, the latter projecting beyond the delivery end of the former, and both being combined with an amalgamating vessel or cylinder tith. In combination with the cylinder A, hopper B, and steam and mercury pipes D. E, the duet G, affording an unobstructed passage for the ore and amalgamated metals from the said cylinder and serving to make the operation continuous. 7th. The free washer consisting of a vessel H, having conical bottom H, hollow shaft K, rollers L, L, vings M, M, well I, and blu cocks m, m. 2th. The process of washing ore by upward filtration or by means of water brought into a tank through the bottom or lower part thered and drawn off or permitted to slow away through an exit port located above said bottom or point of admission; 9th. The tank H, having the conical bottom II, and well I; 10th. The combination of the hollow shaft K, concer of the contain the containing metals by mixing ore and mercury or mercurial vapour i 12th. The combination with an amalgamating vessel M, in which ore and mercury or mercurial vapour are commingled, of a grinding roller or rollers for producing more perfect analgamation; 13th. The combination of annul gamating vessel M, hopper O, retort R, and grinding roller or rollers T, with or without the agitators Sz.

#### No. 6303. Composition for Plough Casting.

(Composition pour la fonte des charrues.)

David Clinton, Wellington, Ont., 11th July, 1876, for 5 years. Claim.—A compound of cast-iron and steel.

No. 6304. Liquid Measure. (Mesure liquide.)

AG. OOUS. IMPRING MACKSTRV. (ausure tequeue.)
John W. Wilkinso., Meadville, Pa., U. S., 11th July 1876 for 5 ears.
Claim.—1st The conical liquid measure F. v combination with the induction tube C, and eduction fancet or stop cock B; 2nd The combination of the roal I and lever h, with the valve II, and measuring vessel F, all arranged to operate so that the valve II, will open to permat of the escape of air when the measure is being filled. 3rd The combination of the roal I lever h and valve II, with the stop cock E arranged to operat so that then the latter is impred to discharge the contents of the measure the valve II will be opened to adome the interto measuring class. to admit air into the measuring glass.

#### No. 6305. Improvements on Landau Car-(Perfectionnements aux landaux.) riages.

Robert Dunn, St. Louis Mo., U. S. 17th July, 1876, for 5 years.

Claim.—1st. The side grooves a, aranged on the top of the body A, so that the said sashes may be moved around to the front of the top; 2nd. The angle brace D, and its connecting pins Ci. Cii., Ci. by which the frame C is connected with the bows B; 3rd. The angle from water guard F, secured to the top part of the carriage body A.

## Grain Binder. (Lieuse de grain.)

John Parker, Portland, Qut., 17th July, 1876, for 5 years

Claim.—1st. In combination with the frame A mounted on axle B, of a ground wheel C, the toothed gathering frame E, and sprocket wheels F. 2nd The toothed head G, journalled on the frame A, in combination with a frame E. 3rd The spring plyer jaws 4, attached to a tooth of the head G, and operating automatically for holding the binding wire, 4th The radial arm hub 3, or notehed disc, mounted on a hollow journal, and the shears 5, in combination with a spool 2, for twisting and cutting the wire.

## No. 6307. Improvements on Bolting Reels.

(Perfectionnement des blutoirs tournants.)

Lewis V. Rathbun, East-Pembroke, N. V., U. S., 17th July, 1876, for 5 years.

\*Claim.—1st. The combination with a bolting reel of the slotted segment F. pivoted at the bottom so as to move toward or from the reel, and the cam G pivoted at the bottom so as to move toward or from the reel, and the cam G made adjustable on the segment to vary the angle at which the snapping cords strike the cloth; 2nd. The combination with the rotating reel provided with the spring bolts, of the cam G constructed with the wedging sides  $S_i S_i$ , and pointed end  $I_i$  and pivoted to its support so as to rise under the back action of the spring bolts, 3rd. The case B, B, made in halves constructed with the slots or holes  $g_i g$  thanges  $C_i C_i$  barrel  $b_i$  and side grooves  $h_i h_i$  to receive the spring bolt  $C_i$  4th. The combination with the slotted case B, B, but we ship grooves  $h_i h_i$  of the latt  $C_i$  executated with the slotted case  $h_i h_i$  of the bolt  $C_i$  executated with the slotted. having side grooves h, h, of the bolt C, constructed with the spline  $j_i$  and the spring D.

#### No. 6308. Process of Enamelling Iron Ware.

(Procédé d'émaillage des objets en fer.)

Frederick G. Niedringhams and Wilham F. Niedringhams, St. Louis Mo., U. S., 17th July, 1876, for 5 years, Claim.—1st. The process of c. unelling iron ware, 2nd, Iron ware en-

amelled.

No. 6309. Dish Drainer. (Egouitoir a raisselle, )

Vashti Chandler, Pontiac, Mich., U. S., 17th July, 1876, for 5 years.

Claim, — The inclined shelves A. A. decreasing uniformly in width
from bottom to top and having the longitudinal groove C. C. and drip tubes E, E, in combination with the inclined slats D, and vertical slats D:

#### No. 6310. Billiard Table. (Table de billard.)

Hugh W. Collender, New-York, U. S., 17th July, 1876, for 5 years.

I latin—1st. In combination with a side and end broad rail or with two sides of a wooden frame table, an intermediate or interposed device or piece adapted to hold the ends of such broad rails or table sides in place laterally. 2nd In combination with a wooden frame table a stand or plate suitably made to give a bearing to and afford means of securement to it of the leg when such stand or leg holding device is cast with or rigidly united to the plate or casting which is interposed and held fast between the sides of the table; 3rd. A corner plate or intermediate easting formed or provinced with a bead or rib adapted to cover the joint between the wooden broad tails at the outer corner of their junction.

#### No. 6311. Mechanism for Moulding the Soles of Boots and Shoes.

(Machine a former les semelles des chaussures.)

William H. Palmer, Dover, N. H., U. S., 17th July, 1876, for 5 years. Claim.—1st. A mould block provided with an adjustable stamp or device G for forming in the toe portion of the sole a depression to receive the inner sole and upper; 2nd. A boot or show sole landing in recess or depression at the toe formed by compression without removing any portion of the stock.

#### No. 6312. Wirdow blind.

Ogden A. Dockham St. Thomas, Ont., 17th July, 1876 for 5 years Claim.—1st The hinged arm A, for the purpose of allowing the bland to be swing or opened out where it is required. 2nd. The pulley C. 3rd. The metal covering of the lower part of the opening B. 3rd The

#### Hand Stamp Printing Form. No. 6313.

(Timbre-composteur.)

Andrew Jackson and James C. Brymer, Montreal, Que., 17th July, 1876, for

Claim.—1st. The sliding frames A, and D, making up together a form for the reception of type or blocks for printing said form being thus capable of

adjustment to any required length, 2nd. The sides or gardes C, and V, which may be of any suitable form attached to the frames A, and D, respectively by the uprights B, B, and E, forming a bandle for the apparatus 3 rd. The pinching serve h, or its equivalent fixed to one of the frames and working in a slot g in the other, to hold both firmly together when adjusted.

#### No. 6314. Improvements in Reaping Ma-

(Perfectionnements aux moissonneuses.)

Chines, (Perfectionnements aux moissonnewses.)

Isaac Mills, Hamilton, Ont., 17th July, 1876, for 5 years.

Claim—1st. In combination with a reaper the L shaped take consisting of the handlo II, with the loose head rake U, pivated to the same—2nd—The bar or case I, containing a groove G—and guards K—K, for the handle III, of the rake to operate in also the bar J, with its groove C for the rake lead to shile in: 3rd. The arrangement and combination of the garring for driving the rake consisting of the wheel T—cog wheels O—Oa, shalt Q, crank R, connecting rod S, draven by the drive wheel. 4th. The arrangement of the land lever P, with the gearing and shalt for throwing the rake m and out of gear. 5th. The arrangement of the loot lever P beneket m spring m, pin of in shalt At, r—th r, in smooth portion of cog pinaot. Other looperating the rake by foot... The arrangement of the guards C—C and guard rad W for cansing the cut grain to fall about ten or twelve in a.es from the rear end at table to allow room for the teeth of the rake to rise; 7th. The arrangement of the square grain table As, provided with slots B—running paralle to each other for the teeth of the rake to operate through; 8th. The method employed for tripping the rake by means of the long tooth E-, and trap. for taking the teeth and the said tooth and har N, for depressing the teeth, 9th. The arrangement of the hearings D, and W for the reet 10th. The entire mode of constructing the rake and gearing for tripping and driving the saide. If the life in the late is a decreased by a crank for driving the rake. driving the rake.

#### No. 6315. Improvements on Piano Pedals.

(Perfectionnements was pedales des paines.)

William Muth, Montreal, Que., 17th July 1876, for 5 years

Claim.—1st. The curved metal bar  $\lambda$  in combination with the two end closed forks f, f, the central open fork f and intermediate guide wires g, g, for allowing the bar  $\lambda$ , to move freely and steadily up and down; 2nd. The supporting wires h, h, fixed into the bar  $\lambda$  and resting on the shading plugs j, j, j, for connecting the bar  $\lambda$ , with the pedal levers, 3rd. The three duplex levers k, k, k, simultaneously acted on by the pedal stem l with spring m, acting in the contrary direction upon the whole system of levers.

#### No. 6316. Dryer. (Stekerie.)

James L. Adams and Joseph G. Blondin, Montreal, Que., 17th July, 1876,

James 1. Adams and society of the form of the property of the form of the party of the Claim.—1st. The combination of a fan or blower F steam pipes S and M, 2nd The external arrangement of openings D, and P, sinde H, lever L, and scrap box J, 3rd. The combination mechanism composed of shaft E, and sorap box J, 3rd. The combination mechanism composed of shaft E, and sorap transverse bar G connected by bell crank E slot 1 dog or upright C provided with a claim or tooth, springs 1, and lever L.

#### No. 6317. Billiard Table. (Table de billard..)

Hugh W. Collender. New-York, U. S., 17th July, 1876, for 5 years (Paim.—18t. In combination with the side broad rails and a cross beam metallic shoe pieces or holder plates and a bolt or nut or other device for tastening the parts together; 2nd. In combination with the cross beam of a table frame and the longitudinal beams or bars, metallic shoe pieces adapted to be secured on either side of the cross beam and to hold laterally and vertically support the ends of said longitudinal beams, 3nd. In combination with the end broad rails and longitudinal beams or bars metallic stands adapted to hold laterally and vertically support the ends of said longitudinal beams 4th. Shoe pieces or castings adapted to be secured upon the opposite faces of sides of the cross beam and having tents or lugs which penetrate the beam and come together. and come together.

## No. 7318. Improvement on Steam Traps.

(Perfectionnement des trappes de vapeur.)

George W. Harrold, Rochester N. Y., U. S., 17th July 1876, for 5 years, Claim,—1st. The combination of the trap or casing A, the receiving pipe, B, connected with the receiver the eduction pipe C connected with the boder, (with or without the circulation pipe E) and the steam supply pipe D, to force by injection the water between the steam nozzle and the check valve or valves through the eduction pipe into the boder 2nd. The combination of the steam jet pipe D, and the syphon consisting of the pipes B C and E, connected and operating for forcing the water into the boder by injection.

#### Machine for Crimping the Heels No. 6319. of Mocassins.

(Machine à cambrer les talons de moccassins.)

Charles Beaupré, Ottawa, Ont., 17th July, 1876, for 5 years.

Claim.—1st. The combination of the wooden block last B. iron crumping block F and frame C with the frame A lever frame D and half pinions c, to crimp the heels of mocassins or shoe packs. 2nd In combination with a crimping machine A, the mocassin or shoe pack G, having no scans at the lower part of its heel, said mocassin or shoe pack being the product of the crimping machine A.

## No. 6320. Earth Auger. (Tariere a terre.)

Isaac Ireland, Mount Forest, Ont., 17th July, 1876, for 5 years.

Claim.—The combination of the slide-bars 12 attached to the shell C, by clips d., the movable sides G. G of the shell C the movable sheaves L, and J, with the shell C.

# No. 6321. Broom Corn Sizing Machine.

(Machine à coller la houque.)

Alphonso Walrath, Fort Plain, N. Y., U. S., 17th July 1876, for 5 years.

Claim—1st. The spurrer and distributing belts D. Di, Dz, D3, of different lengths except the outer belts D. D3, which are of the same length, and the guide strips  $i, i_1, i_2, i_3, i_4$  in combination with the bin, divided into several compartments; 2nd. The spurred feeding wheels H. Hi, in combination with the spring fingers  $g_i$ , supporting plate G2, and cutter J.

## No. 6322: Railroad Car Adjuster.

(Appareil à remettre les voitures de railroutes sur la voie.) Charles Bigaouette, Montreal, Que., 17th July, 1876, for 5 years.

Claim.—1st. The combination of the screws and cylinders; 2nd. The two cases, one running within the other on revolving cylinders; 3rd. The application of the invention to moving houses, boilers, and other heavy machinery and bodies, into the exact position required.

## No. 6323. Improvements on Churns.

(Perfectionnements aux barattes.)

Thomas Simmons, Hartford, Ct., U. S., 17th July, 1876, for 5 years.

Claim.—1st. The construction, combination, and arrangement of the stationary interior aerating tube II the nut I for locking it to the frame, the externor driving tube J, and the revolving dasher K; 2nd. The combination of the frame A, B, and the genred wheels C, D, E, F, G, with the driving tube J, and its dog J<sup>1</sup> for operating the revolving dasher K.

## No. 6324. Machine for Mounting Photographs on Cards.

(Machine à monter les photographies sur des cartes.)

Robert Sheane, Listowel, Ont., 17th July, 1876, for 5 years. Clatin.—1st. Box x, to hold earls on which to mount pictures, screw points L, E, passing through edge of box to hold cards, notches L, L, to take out picture when mounted, plate attached to the thumb screw L in combination with the thumb screw and cross bar H, to hold cards in position against points E, E, while mounting box O, in which to place glass plate on which to lay picture to mount, 2nd. The combination of the different parts.

# No. 6325. Middlings Purifying Machine.

(Muchine à épurer les grunux.)

Benjamin Barter, Toronto, Ont., 17th July, 1876, for 5 years.

Claim.—1st. The reciprocating bolting shaker B, suspended on a level or an incline, and divided into two or more planes or sections Bi, of equal or unequal width rising one above the other to the feed hopper; 2nd. The breaker slats G, and H, inserted in the interval of height between the section of the shaker and the shaker and feed roller; 3nd. The combination of the section fan or Lus G, one or more return chambers D, and the reciprocating bolting shaker B, divided into sections of different elevations and covered with graded or ungraded botting cloth or solid or nenforated wood. with graded or ungraded bolting cloth or solid or perforated wood.

## No. 6326. Seeder and Cultivator Tooth.

(Dent de semoir et de cultivateur.)

John Y. Hammond, Oshawa, Ont., 17th July, 1876, for 5 years.

\*Claim.—The combination of the tooth A, having groove B, bar C, and serew D, with the chisel pointed shank E, fitting into said groove and held removably by the screw D.

# No. 6327. Improvements on Skates.

(Perfectionnements aux patins.)

Charles Brewster, Montreal, Que., 17th July, 1876, for 5 years.

Charles Breuster, Montreat, Que, 17th July, 18th, for 5 years. Claim.—1st. The combination of the clamp f, spindle  $\epsilon$ , with toggle joint consisting of parts m, and n, plate d, having melined slots h, and clamps k; 2nd. The combination of the toggle joint m, n, solo plate d, having inclined slot h, and clamps k; 2nd. The combination of the clamps k, having ribs  $a_1$ , bar  $b_1$ , spindle  $\epsilon$ , and plate d, having inclined slots h; 3th. The combination of the clamps k, bar  $b_1$ , plate d, having inclined slots h, spindle  $\epsilon$ , and plate d, having inclined slots h, spindle  $\epsilon$ , and plate d, having inclined slots h, spindle  $\epsilon$ , and plate d, having inclined slots h. Because h is the clamps h inclined slots h. But h is the combination of the clamps h. Plate h is h inclined slots h, and clamp h.

#### No.6328. Boot Lace Fastener.

(Eillet de soulier.)

Thomas A. McDonald. Durham, and James W. McDonald, Campbelltown,

N.B., 20th July, 1876, for 5 years. Claim.—1st. The combination of the front plate z, having the slot  $\epsilon$ , calkins f, and tube g, with rear plate b, having double hole k; 2nd. The combination of the boot lace fastener A, with the boot B.

## No. 6329. Gear Trip for Harvester.

(Engrenage de moissonneuses.)

(Engrenage de moissonneuses.)

Robert Thomson and Alfred R. Williams, Stratford, Ont. (Assignee of Orville Cooley), 20th July, 1876, for 5 years.

Claim.—1st. In combination with the cam gate of a harvester the latch f, slotted stud J, and wheels c, c1, c1, having an incline or lifting cam on its upperface; 2nd. In combination with the lifting wheel c, the driving wheel b, mounted loosely on the rack shaft and driven by a ratchet or clutch; 3rd.

The forked lever c, in combination with the rake shaft d, and driving wheel b, of a harvester rake; 4th. The stud J, adjustable towards and from the rake shaft d, in combination with the driving gear wheel b, and the series of different sized driven wheels c, c1, c1; 5th. One or more studs J, adjustable towards and from the rake shaft d, in combination with the driving gear wheel b, and the series of different sized driven wheels c, c1, c1; £th. One or more studs J, adjustable towards and from the rake shaft d, in combination with the driving gear wheel b, and the series of different sized driven wheels c, c1, c1, &c., placed at different positions around the shaft d, and operated by the latch f; 6th. In combination with the cam gate of a harvester held open by a spring and the cam plate to which it is applied and rake arms moving over it agate latch and tripping mechanism; 7th. The combination of a spring gate, cam plate and rake arms a gate lever gate latch and adjustable tripping mechanism for antonatic operation, and the clutch and trop large mechanism for antonatic operation, and the clutch and rod for operation at will of the driver; 9th. A cam gate adapted to be opened and closed automatically at regular intervals, and also adapted to be kept open or closed at the will of the driver so as to render the raking entirely under his control.

### No. 6330. Pitman Connection for Mowing and other Machines.

entirely under his control.

(Manchon d'embrajage de machines à faucher et autres.) Robert Thomson and Alfred R. Williams, Stratford, Ont. (Assignees of Orville Cooley), 20th July, 1876, for 5 years.

Claim.—The combination of the rigid plate A, or B, with the hinged plate A, A2, or B1, B2, parts of which are permanently connected together and with the bolt \( \epsilon\$, and ball or swivel block. \)
No. 6331. Tightener, Stripper and Guide for Belts and Endless Chains.

(Régulateur de courroie et de chaîne sans fin.)

Robert Thomson and Alfred R. Williams, Stratford, Ont., (Assignces of Orville Cooley), 20th July, 1876, for 5 years.

Claim .- 1st. The combination of two connected and pivoted pulleys with a

belt or chain passing between them and pressed in opposite directions by them, and a spring for applying the pressure to said pulleys; 2nd. The combination of two connected and pivoted pulleys with a belt or chain passing combination of two connected and pivoted pulleys with a belt or chain passing between them and possed in opposition by them, and a spring for applying this pressure to said pulleys, 3rd. The combination of the support C. K, the forked arm b, b, and the pulleys a, a, with the torsional spring  $d_1$ , 4th. The notched ring E, combined with the support C. K, the spring d, and the pulley a, a, mounted on the arm b, b), 5th. The combination of a pulley a, arranged to strip the chain from the driving wheel, a second pulley a, arranged to rathe the chain and guide it to the driven wheel with a chain passing between the pulleys and a spring or its equive, ent for applying the pressure and taking up the sheek of the chain.

#### No. 6332. Improvement in Harvesting Ma-

chines. (Perfectionnement des muchines a moissonner.) Robert Thomson and Alfred R. Williams, Stratford, Ont. (Assignce of Orville Coole, ), 20th July, 1876, for 5 years.

Claim .- 1st. The combination of a frame work having a V-shaped surface to receive the box or bearing |D|; 2nd. The boxes |D|, made V-snaped on one side and held into position by the wedge bolt |C|, 3rd. The combination of one or more keys to hold the boxes |D|.

## No. 6333. Improvement in Reapers and Har-

vesters. (Perfectionnement des faucheuses-moissonneuses.) Robert Thomson and Alfred R. Williams, Stratford, Ont. (Assignees of Orvillo Cooley), 20th July, 1876, for 5 years.

Claim.—1rt. The sides or plates D, provided with the hubs G, secured to same forming the bearing for bolt or pin H, to attach the same to the: head C; 2nd. The journal I, formed on said clow and located directly central with the arm E, and hubs G; 3rd. The combination with the above and the collar F.

## No. 6334. Improvement in Reaping and Harvesting Machines.

(Perfectionnement des machines à faucher et à moissonner.)

Robert Thomson and Alfred D. Williams, Stratford, Ont. (Assignees of Orville Cooley), 20th July, 1876, for 5 years.

Claim .- Ist. The combination of the upper shoe D, with the platform and wooden beam A, together with the iron linger har angle c. lee iron linger bar B; 2nd. The combination of the above with the lower shoe E, as secured to the drag bar H, or the track of a machine; 3rd. The upper shoe D, hinged to the lower shoe E, and both being boiled together to tringly secure the same when the machine is in operation; 4th. The combination of one or of the whole of the above parts together or separately.

#### No. 6335. Improvements on Plough Points.

(Perfectionnements aux soes de charrues.)

William H. Trissler, Cleveland, Ohio, U. S., 20th July, 1876, for 5 years.

Claim.—1st. A plough point adapted for attachment to a plough consisting of three pieces B, C, D, rivetted together; 2nd. A plough provided with a point consisting of the three pieces B, C, D, rivetted to each other and secured to the plough; 3nd. The slides G, provided with turned edges of flanges G<sub>1</sub>, in combination with the point B<sub>1</sub>; 4th. A plough provided with a point consisting of a single piece constructed with a point G<sub>1</sub>, socketor recess I, having in the sides thereof openings a, and with or without interior risc C; 5th. The maxiliary chambered point in combination with the plough and attached thereto by means of soft metal or composition.

# No. 6336. Rotary Churn. (Baratte tournante.)

Hannibal Felt, Odin, Ill., U. S., 20th July, 1876, for 5 years.

Claim.—1st. The combination of the driving gear D, E, P, rotating frame I, J, K, dasher M, N, O, P, cream vessel G, and stand A, B, Il; 2nd. The dasher constructed with a rotary frame M, N, having bearings in a removable frame O, P; 3rd. The combination of dasher with the cream vessel having lugs Q.

# No. 6337. Improvements on Horse-powers.

(Perfectionnements oux manéges.)

George Gibson, Mount-Forest, Ont., 20th July, 1876, for 5 years. Claim.—The combination of the arm II, spindle I, horse-power wheel B, bull pinton C, speed wheel D, pinton E, and fly wheel F, with connecting rod G, and frame A, to work circular saws, crushing machine, &c.

# No. 6338. Improvements on Hatchets.

(Perfectionnements aux hachettes.)

John A. Thayer, Cambridge, Mass., U. S., 20th July, 1876, for 5 years. Claim .- The combination tool consisting of a hatchet a, hammer b, nail puller c, adze, craser, d, and handle c.

## No. 6339. Improvements on Grinding Mills.

(Perfectionnements aux moulins à farine.)

William M. Woodbury, Rochester, Min., U. S., 20th July, 1876, for 5 years.

Claim.—1st. The combination of a mill stone with sustaining springs beneath and on the periphery thereof whereby the stone is permitted to yield both vertically and laterally; 2nd. In combination with the stone A, the spring C, and E; 3rd. In combination with the stone A, the rubber springs C, seated in the frame B, and sustained by the screws D; 4th. The rubber ring E, fitted between the stationary lower stone A, and the surrounding case on a line with the upper surface.

# List of Patents issued up to 24th Aug., 1876, but not yet Officially published in the Patent Office Record.

No. 6466. G. Clements, New Milford, Susquehanna Co., Pa., U. S. A., "Improvements in Covers for Pots and Kettles," 24th August, 1876.

No. 6457. S. White, Belleville, Ont., "Improvements on Whiftletrees," 24th August, 1876.

No. 6468. C. Ethier St. Eustache, Que. \* Improved Steve, 24th Aug., 1876. (Extension 1114.)

No. 6469. The Welland Vale Manufacturing Company, Toronto, Ont., "Rod., an's Improved Capped Fertule or Socket, '24th Aug., 1876., (Extension of 616.)

No. 6470. J. Smith, and C. Smith, Westville, Picton Co., Nova Scotia, "Improved Process for Tanning and Drying Hides and Skins," 24th Aug., 1876.

No. 6471. J. Chalifour Montreal Que 'Improved Latting Machine,' 24th August, 1876

No. 6472. J. Shickel, Bridgewater, Rockingham Co., Virgima, U. S. A., "Improvements on Plaws '24th Aug., 1876.

No. 6173. L. O'Hara and H. Cooper Oswego, N. Y., U. S. A., Lifting Jack," 24th Aug., 1876.

No. 6474. S. P., at. St. Louis, Missouri, U. S. A., "Mariner's Compass," 24th Aug., 1876.

No. 6475. T. S. C. Lone, No. ristown, Penn., U. S. A. Process and Apparatus for producing and using Hydrocarbon and other Gases for Heating and illuminating purposes, 24th Aug., 1876.

No. 6476. R. E. Letton Quincy III., U. S. A., Improvements on Reed Organs, ' 24th Aug., 1876.

No. 6477. G. A. Shaw, Toronto, Ont., (Assignce of R. W. Semple, of Toronto, aforesaid,) "Improved Lock," 24th Aug., 776

No. 6478. W. F. Foster, Chicago, Ill., U. S. A., "Glove Fustener," 24th Aug., 1876.

No. 6479. N. E. Otto, Deutz, German Empire, "Improved Gas Notor Engine," 24th Aug., 1876.

No. 6480. W. A. Smith, Clifton, Ont., "Improvements on Bank Checks, &c.," 24th Aug., 1876.

No. 6381. E. C. Jones & W. Chaplur, Toronto, Ont., "Rodden's Balloon Tine," 24th Aug., 1876, (Dated 5th Faby., 1876, Extension 795.)

•		-

# INDEX OF INVENTIONS.

<del></del>	]	Pad, ho
Auger, earth, J. Ireland	6320	Paper d
Bugs, H. Redden	6216	Paramo
Bag. flour, T. Phillips	6240	Photogr
Bag, flour, T. Phillips	6264	Piano,
Barrels, heating, H. H. Hale and E. E. Shaw	6215	Plough
Beds, spring, J. R. Townshend	6241	" ]
Belts and endless chains, R. Thomson and A. R. Williams	6331	44 1
Billiard table, H. W. Collender	6317	Post
Boot lace fastener, T. A. and J. W. McDonald.	6328	Pri .
" tree, J. H. Sampson	6300	Por "c"
" 4 J. K. Felck	6297	Ranna
Boots and shoes, W. H. Palmer	6311	Railway
Broom corn sizing, A. Walrath	6321	Reariu
Burglar alarms, A. R. Schulenburg	6251	Rein ho
Candy machine, B and H. Stern	6265	Sap, ev
Car couplers, G. Jones	6219 6305	Saw-du
Carriages, R. Dunn 6257	6258	Saw gui
Carriage thill, O. O. Roberts	6291	Screw t
Cannons, J. R. N. Owen	6222	Seats, C
Catepults, J. A. Knight	6231	Seeder : Sewage
Chairs, A. B. Stevens and C. Kilburu	6255	Shoe so
Churn, H. Felt	6336	Skate,
4 S. Simmons	6323 6229	Skates,
Power, T. Cole	6289	Scap, I
Compasses, W. Ascough	6267	Soll, nli
Cooking stove, E. Bartlett	€293	Sprinki
Crimping, C. Beaupré	6319	Squares
Cultivators, J. Wade	6223	Steam
Collinator tooth, J. Y. Hammond	6326	Stove b
Curtain fixtures, W. E. Skinner, W. O. and J. Spaith	6358	" 0
Dish drainer, V. Chaudler	6309 6234	u fo
Door checks, S. R. Billings	6295	Bunw,
" holder, H. McDlarmid	6219	Stump
* knobs W. H. Gonne	6242	Tanning
Drills M. C. Bullock	6270	Thill co
Dryer, J. L. Adams and J. G. Blondin	6316	Vessels Waggor
Dyeing, mordant for, F. J. Bird	6224	Washin
Earth Auger, J. Ireland	6320	44
Electric appliances, Voltaic, J. E. Hetherington	6215	Weight
Evaporators, sap, J. P. Baldwin	6272 6297	Well di
Fare register, W. H. Hornum	6296	Wheels
Fire arms, W. 2. Marston	6281	Windov
Floors, S. P. Groocock	G25 I	
Floors, S. P. Groocock	6292	Wrench
Fruit, preserving, S. Peebles, E. Mefford and C. E. Clark	6266	i
Gas manufacturing, H. Bray	6216	1
Gold, extraction of, P. Cadell	6259	İ
Grain binder, J. Parker	6306 6233	ł
binding, S. L. Whitney	6273	}
Hams, preparation of A. B. Richardson	6217	į .
Harrows, W. T. McGhee and J. Waters	6237	l
Harvesters, R. Thomson and A. R. Williams	6329	Adams,
Harvesting, " G332	6334	Ascong
Hatchets, J. A. Thayer	6338	Atwood
Horse pad, H. G. White	6283	Ranero
" powers, G. Gibson " power link, B. L. Olds	6337 6258	Barter,
Hydrants, J. P. Gallagher	6260	Bartlet
i iron enamellag, F. G. and W. F. Niedringhams	6308	Beaupr
Iron welding, J. B. Wills	6248	Bigaoue
Jar cover. F. L. Bodine	6267	Billing
Kniting Loom, C. L. Spencer and S. W. Pingree	6299	Bird, F
Lamp street T.S. Woods	6201	Blondin
Lamp, street, J. S. Woods	6274 6304	Bodine, Bray, E
rolary, A. Chambers	6275	Brewst
Meat preserving, K. Knott	6252	Bryme
Melak, amalgamating, T. A.D. Forster and G. J. Firmin	6202	Bullock
Middlings purifying, B. Barter.	6323	Butcau
Mills, corn, W.C. Woodbury	6779	Bretles
Mill stones, F. A. Howland	6218	Cadell,
Mocassins, C. Beaupre	6330	Carvell   Chamb
Nail, horse shoe, J. B. Wills	6271	Chandi
" " G. B. Clapp, J. A. Pillow and R. Hersey	6250	Clapp,
Odometers, A. Chambers	6275	Clarke.
Ures, Amalgamating, L. Carvell	6220	Clinton
" Palverlzing, R. M. Fryer	6253	Colc. Tr
washing, T. A. D. Forster and G. J. Firmin	6702	Collend
1		

Packing boxes, H. N. Hart	6255
Packing piston, J. T. Wright and M. Schueble	6233
Pad. horse, H. J. White	6283
Paper dampers, C. G. C. Simpson	6225
Parafilne, F. X. Byerley	6214
Photograph, mounting, R. Sheane	6321
Plano, W. H. Wood	6261
'4' pedals W. Muth	
	6315
Plough casting, D. Clinton	6303
" Points, W. H. Trissler	6335
4 trench, H. Larose	6277
Post digger, J. M. Perry	6279
Pri form, A. Jackson and J. C. Brymer	6313
Par "s, steam, W. H. Laurie	6286
Rams ad car adjuster, C. Bigaouette	6322
Railway couplers, G. Jones	6249
" wheels, A. Atwood	6263
Panelta madding T Mills	6314
Reaping machine, I. Mills	
Rein holders, G. A. Shaw	6223
Sap, evaporators, J. P. Baldwin	6272
Saw-dust, burning, R. Hodson	6290
Saw gummer, J. M. Smith	6214
Screw threading, F. P. Sheldon	6276
Seats, C. B. Record	6287
Seeder tooth, J. Y. Hammond	6326
Sewage tanks, R. A. McCaulay	6291
Shoe sale burnishing J. W. Dodge and C. S. Titleld	6213
Skoto C Browster 6000	6327
Skate, C. Brewster	
Sames, J. A. Whether, C. E. Buienux and A. D. Sherakon	6221
Soap, H. De Lewis	6235
Soll, night, R. S. Gillespie	6268
Sprinklers, street, G. Trimble	6230,
Squares, W. Ascough	6267
Steam pump, W. H. Laurie	6286
4 traps, G. W. Harrold	631S
Stove board, S. Magill	6284
" cooking. E. Bartlett	6293
" for barrels, H. H. Hale and E. A. Shaw	6245
Straw, cutters, A. and D. Tolton	6236
Stump extractors, E. Farnsworth	6227
Tanning hides, G. Richter	6232
Thill couldne O O Dobasto	
Thill coupling, O. O. Roberts	6291
Vessels, cylindrical, J. Klsor	6250
Waggon Brake, E. H. Wheeler	6282
Washing clothes, C. Packham	6289
" machines, J. M. Rodkey	6226
Weights, lifting, L. A. Melbura	6256
Well digger, I. M. Perry	6279
Wheels, railway, A. Atwood	6263
Window blind, O. A. Dockham	6312
fasteners, L. D. Gellnas	6278
Wrenches, E. H. Knight	6247
	U-7/

# INDEX OF PATENTEES.

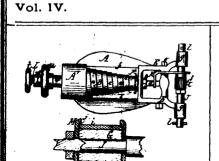
6316
6267
6263
6272
6220
6325
6293
6319
6322
6234
6221
631G
6269
6216
6327
6313
6270
6221
6244
6239
6220
6275
6302
6280
6266
6303
G229
6317

1			
Cooley, Orville, belts and endless chains	6331	Perry, Isaac M., well digger	6279
" barvesters	6329	Phillips, Thomas, grocery bag	6210
" harvesting	6332	Pillow, J. A., R. Hersey, and G. P. Clapp, horseshoe units	6280
" mowing machines	6330	Pingree, S. W., and C. L. Spencer, knitting loom	6301
" reapers	6303	Pulvermacher, Isaac L., electric appliances.	6213
" reaping	6334	Rathbun, Lewis V., bolting reels	6307
De Lowis, Henry, soap	6235	Record, Charles B., seats	6287
Dockham, Ogden A., window blind	6312	Redden, Henry, bags	6246
Dodge, J. W., and C. S. Filleld, sole burntshing	6243		6217
Dunn, Robert, carriages	6305	Richter, Charles, tanning	6232
Farnsworth, Enoch, stump extractors	6227	Roberts, Osmore O., thill coupling	6291
Felt, Hannibal, churn	6336	Rodkey, Jacob M., washing machines	6226
Felck, Joseph K., boot tree	6297	Sampson, James II., boot tree	6300
Fifield, C. S., and J. W. Dodge, sole burnishing	6243	Sedgwick, A., and E. B., curd knife	6299
Firmin, G. J., and T. A. D. Forster, amalgamating m., als	6302	Schueble, M., and J. T. Wright, piston packing	6233
Forster, T. A. D., and G. J. Firmin, "	6302	' Schulenburg, Albert R., burglar alarms	6251
Fryer, Robert M., pulverizing ores	6253	Shaw, George A., rein holders	6223
Gallagher, Joseph P., hydrants	6260	E. A., and H. H. Hale, barrels,	6245
Gauthier, Charles W., freezing apparatus	6292	Sheane, Robert, mounting photographs	6324
Gelinas, Luc D., window fasteners	6278	Sheldon, Frank P., screw threading	6276
Gibson, George, horse-powers	6337	Sheraton, A. B., J. A. Whelpley, and G. E. Buteaux, skates	6221
Gillespie, Richard S., night soil	6268	Simmons, Thomas, churns	G323
Gonne, William H., door knobs	6212	Simpson, Charles G. C., skate	6262
Graham, S. P., carrlages	6258	" paper dampers	6225
Groocock, Samuel P., floors	6254	Skinner, W. E., W. O., and J. Spaith, curtain fixtures	6235
Hale, H. H., and E. A. Shaw, barrels	6245	Smith, Joseph M., sav gummer	6214
Hammond, John Y., seeder and cultivator	6326	Spalth, J., W. O., and W. E. Skinner, curtain fixtures	6238
Harrold, George W., steam traps	6318	Spencer, C. L., and S. W. Pingree, knitting foom	6301
Hart, Harrison N., packing boxes	6255	Stern, B., and H., candy machine	6263
Hersey, R., G. P. Clapp, and J. A. Pillow, horse shoe nails	6280	Stevens, A. B., and C. Kilburn, chairs	6255
Hetheriugton, John E., electric appliances	6215	" Philetus J., eye cups	6297
Higginbottom, J., and E. Hutchinson, grain cleaning	6273	Thayer, John A., hatchets	6335
Hipewell, Thomas, jar cover	6269	Thompson, Samuel R., bark cutting	6264
Hodson, Richard, burning saw dust	6290	Thomson, R., and A. R. Wifliams, belts and endless chains	6331
Hornum, William H., fare register	6296	harvesters	6329
Howland, Frederick A., mill stones	6218	harvesting	6332
Hutchinson, E., and J. Higginbottom, grain cleaning	6273	" mowing machines	G330
Ireland, Isaac, earth auger	6320	reapers	6333
Jackson, A., and J. C. Brymer, printing form	6313		6331
Jones, George, car-couplers	6219	Tolton, A., and D., straw cutters	6236
Kilburn, C., and A. B. Stevens, chairs	6285	Townshend, John E, beds.	6241
Kisor, John, cylindrical vessels	6250	Trimble, George, street sprinklers	G230
Knight, Edward H., wrenches	6247	Trissler, William H., plough points	6335
" John A., catapults	6231	Wade, Jonathan, cultivators	6223
Knott, Kennard, meat prograting.	6252	Walker, T., and J. W. Bancroft, amalgamating ores	6220
Larose, Hermase, trench ploughs	6277	Walrath, Alphonso, broom corn	6321
Laurie, Walter H., steam pumps	6286	Waters, J., and W. T. McGhee, harrows	6237
McCauley, Reuben A., sewage tanks	6294	Wheeler, Elisha H., waggon brake	6252
McGhee, W. T., and J Waters, harrows	6237	Whelpley, J. A., G. E. Buteaux, and A. R. Sheraton, skates	6221
McDjarmid, Hugh, door holder	6219	White, Henry G., horse pad	62\$3
McDonald, J. W., and T. A., boot lace fastener	6328	Whitney, Sarah L, grain binding	6239
Maglil, Samuel, stove board	6284	Williams, A. R., and R. Thomson, belts and endless chains	6331
Marston, William P., thre arms	6281	" harvesters	6329
Mefford, E.E., C. E. Clarke, and S. Peebles, fruit preserving	6266	" harvesting	6332
Melburn, Lafeyette A., lifting weights	6256	" mowing machines	6330
Mills, Isaac, reaping machines	6314	" reapers	6333
Moore, S. H., and E. Y., door hanger.	6295	reaping	6334
Muth, William, Reaping machines.	6315	Wilkinson, John W., liquid measure	6304
Niedringhans, F. G., and W. F., enamelling	6305	Wills, John R., nalls	6271
Olds, Barnard L., horse-power	6258	" welding fron	6248
Owen, Joseph R. N., cannons	6222	Wood, William H , plano	6261
Packham, Catterick, washing clothes	6259	Woodbury, William C., corn mills	6333
Palmer, William II., boots and shoer	6311	Woods, Joseph S., street lamp	6274
Parker, John, grain binder	6306	Woolner, John, burglar alarms	6251
Peebles, S., E. E. Mefford, and C. E. Clarke, fruit preserving	6266	Wright, J. T., and M. Schueble, piston packing	6223
. ,		- 1 - 1	

# Canadian Patent Office Record.

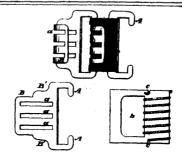
ILLUSTRATIONS.

AUGUST, 1876.

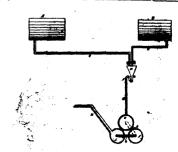


6214

Smith's Saw-gummer.

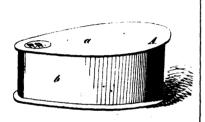


6215 Hetherington's Improvements on Voltaelectric Appliances.

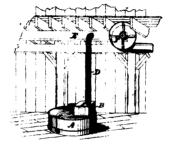


No. 8.

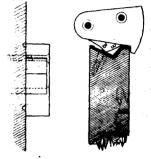
6216 Bray's Method of Manufacturing Gas for Heating and Illuminating Purposes.



8217 Richardson's Improvements in the Preparation

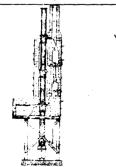


8218 Howland's Dust Preventor and Vapour Exhauster for Mill Stones.

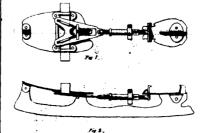


McDiarmid's Door-holder

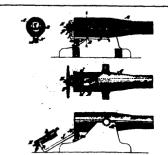
6219



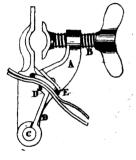
6/20 Carvell's Machine for Amalgamating Ores.



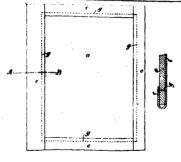
6221 Whelpley, Buteaux and Sheraton's Improvements on Skates.



Cannons.



6223 . Shaw's Improvements on Rein-holder



25 Simpson's Improvements on Paper Dampers.

