

Doct 14/10
No. 120.
No. 1407

Department of Agriculture,
Patent Branch.
CANADA.

Gones Landing, 1870
Ont. J. J. J.

Daniel Herald.
per Jno. Cochrane.
Ottawa.

For Patent for the
Herald new and imp.
boat and Canal model

2000 said model Recd

Papers recd from 25th 70
Am. & papers recd Nov 30th/71

Ottawa, Dec 2^d 1871.

Referred to Hon. Minister
of Justice

J. J. J.
Patent Clerk

A Patent may issue.
J. J. J.

Made out & refer^d for Certif. Dec 7th 71

Dated	Dec 15 th
Secured	16 th
Printed	18 th

To all whom it may concern.

Be it known that I Daniel Herald of the Village of Gous Landing in the County of Northumberland and Province of Ontario Boat and Canoe Builder have invented a new and useful machine for modeling Boats and Canoes and clenching the nails in the construction thereof to be called or known as "Heralds Boat and Canoe mould" and I do hereby declare that the following is a full clear and exact description of the Construction and operation of the same reference being had to the annexed drawings.

The Model consists of a structure resembling a boat or canoe of the form of the inside of the boat or canoe to be constructed (Figure 1) It consists of wood sheathed on the outside with wrought iron. It is constructed in separate compartments in such a manner as to facilitate its removal by sections when necessary (Figure 2) The model may be constructed of white pine or other wood of such a thickness as to give the requisite stability consistent with lightness. Wrought iron strips not less than one eighth of an inch in thickness cover the outside of the model to which they are connected by screws. The iron strips may be placed longitudinally on the sides and transversely on the bottom with intervening spaces on the bottom to facilitate construction (In the small model forwarded with this three spaces are filled with wood) The model consists of four compartments or sections (Figure 2) The bow and Stern sections extend from the bow and stern to about one third of the length of the model. The two centre sections being joined longitudinally

up the centre. The sections are fastened together by
two or more screw plates as shown on plan (Figure 2)

What I claim as my invention is, First In the
frame as constructed and applied as described for
modeling the boat to be built so as to turn the
points of nails in driving and clench them and
Second In constructing the frame in sections -
and plating the exterior of the model with metal
as set forth.

Done at Landing this 20th day of November AD 1871
~~20th June AD 1870~~

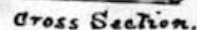
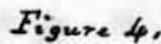
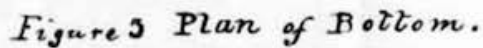
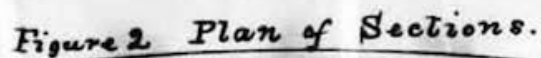
Signed in the presence of L. Herald

C. J. McCann

Wm. Stanton

1252

-1252



Signed in the presence of

28th Nov 1871

L. Herald

Johnnie Stanton

~~[Signature]~~ B J M Euland

none
6877.

Extension 1252.

10063

D²⁶ No. 16157

Department of Agriculture,
PATENT BRANCH.

Home Landing, Dec. 11/1876.
Oct. 11.

D. Herald

APPLICATION FOR ~~the~~ the
Extension of Patent No. 1253.

For "Boat & Cannon Moulds"
for another period of five
years

\$20.00 per Model.

\$2.00 per copy for
land & sea - Dec 11
\$2.00 per copy for \$2.00
not less than 100

Pat. ref. for Cert. Dec. 12th 1876.

Dated Dec 12th

Issued " 14th

Mailed " 15th

1876

Patent Office No. 16157
Dept. Justice No. 3263

DEPARTMENT OF JUSTICE.

In the matter of Application of

Daniel Herald

^{extension of}
for Patent of Invention of

"Heraldo Boat
and Canal Mould"

^{extension of}
The said Patent has been examined by the Minister of Justice,
who now certifies that it is conformable to law.

Dated the 12th day of Decr 1876.

Geo. H. Mason.
for D. M. J.

To the Honorable

The Commissioner of Patents,

&c., &c., &c.

The Canadian Patent Office RECORD

Vol. V—No. 1.

JANUARY, 1876.

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

CONTENTS.

INVENTIONS PATENTED	1
INDEX OF INVENTIONS	XI
INDEX OF PATENTEES	XI
ILLUSTRATIONS	11

INVENTIONS PATENTED.

No. 6785. Improvements in Washing Machines. (*Perfectionnements aux machines à laver.*)

John Maw, Montreal, Que., 20th November, 1876, for 5 years.

Claim.—1st. Any washing machine in which the material to be washed is passed between a large corrugated roller and two or more smaller smooth ones, the arrangement and construction whereby an independent yielding resistance is imparted to the said smaller rollers; 2nd. The combination of the frame A A, rollers D D, and D₂ links E E and bands F; 3rd. In combination with the machine the shelf B.

No. 6786. Process and Appliance for Making Stove-pipe and other Elbows. (*Procédé et appareil pour faire des coudes de tuyaux de poêles et autres.*)

Frederick Hoeltge and Augustus Hoeltge, Cincinnati, Ohio, U. S., 20th November, 1876, for 5 years.

Claim.—1st. The process of forming sheet metal elbows by stamping in a suitably formed blank a central concavity and two lateral ridges, and bending the sides forward and toward each other, so that the bends therein will form the inner curve of the elbow, and the central concavity will form the outer curve; 2nd. The blank A formed with two convex sides a a and two concave sides a₁ to adapt it to be stamped and bent into the shape of an elbow; 3rd. The successive dies A B, the former having an oblong or elliptic cavity and the other a similar or deeper cavity contracted at the sides by transverse ridges; 4th. The final die B with a central longitudinal cavity and transverse ridges flanked by diagonal depressions adapted to stamp a sheet metal blank into the required shape to be bent into elbow form in the manner explained; 5th. The elbow formed from a blank of peculiar outline and of sheet metal of ordinary or uniform thickness.

No. 6787. Spring Bed Bottom. (*Fond de lit à ressorts.*)

William W. Bartlett, Portland, Me., U. S., 20th November, 1876, for 5 years.

Claim.—1st. The combination of the holders C with the supporting frame B and the series of springs S; 2nd. Each spring S as provided with the clip D; 3rd. Each clip D on its opposite edges or formed to enter and fit to the spring clip D; 4th. The supporting frame, the series of slats, the springs and the devices for connecting such springs to the said frame and slats.

No. 6788. Lathe for Turning Spools. (*Tour à tourner les bobines.*)

William R. Landfear, Brooklyn, N. Y., U. S., 20th November, 1876, for 5 years.

Claim.—1st. The combination with the supply tube A of the spool blank conveyor B provided with the jaws e and f for holding and releasing the spool, and having its upper surface constructed to form a cut off to the spool supply tube; 2nd. The sleeve n in combination with the sliding spindle I, the stops or collars m n, the nut n₁ adjustable on said sleeve and the grooved cam G; 3rd. The combination of the eccentric pin S on the shaft L with the sliding rod t, the spring u, the stop or nut v and the knife carriage M; 4th. The combination of the grooved cam G with the vibrating arm E by which the spool blank cut off and conveyor B is operated and the nut n₁ by which the sliding spindle I is actuated.

No. 6789. Screen Holder. (*Pied d'écran.*)

Worth R. Smith, (Assignee of Gardner A. Blodgett), Elmira, N. Y., U. S., 20th November, 1876, for 5 years.

Claim.—1st.—The continuous wire holder made with four or more dependent loops to hold the card, said loops being held in their proper position

by substantially horizontal parts of the same wire, and the whole terminating in a standard which connects the holder to its support; 2nd. The continuous wire holder in combination with a double wire standard upon which the holder slides vertically; 3rd. A standard provided with the guide loops d d in combination with the adjustable screen holder provided with loops b b.

No. 6790. Railroad Rail Joint. (*Joint de rail de railroute.*)

Charles F. Arnold, Titusville, Pa., U. S., 20th November, 1876, for 5 years.

Claim.—1st. The combination of the bed plate a, clamps e and staples g; 2nd. The combination of the clamps e having the links h secured thereto, slots i and wedge o.

No. 6791. Improvements in Lamps and other Glass Vessels. (*Perfectionnements dans les lampes et autres vases de verre.*)

Alonzo French, Philadelphia, Pa., U. S., 20th November, 1876, for 5 years.

Claim.—1st. The socket or column D provided with screw threads at the upper end in combination with the bolt F or other equivalent mechanical contrivance for uniting a glass vessel to a metal base or stand; 2nd. The socket or column A, concave or dish-shaped at the upper end and provided with a screw thread between the ends, in combination with the bolt F, or other equivalent mechanical contrivance for uniting a glass vessel to a metal base or stand; 3rd. The combination of the drip cup C made with a screw or socket D and the fount B supported in each drip cup by means of the stem B₁ fitting into or upon said socket.

No. 6792. Machine for Indenting the Surface of Wire. (*Machine à endenter la surface du fil métallique.*)

Treat T. Prosser, Chicago, Ill., U. S., 20th November, 1876, for 5 years.

Claim.—1st. The combination with the both rotating and reciprocating rolls of guides for confining the wire so as to compel it to pass in a straight line through between the rolls; 2nd. The combination with the rotating rolls of the boxes supporting them and eccentrics and rods for reciprocating the boxes and rolls; 3rd. The combination with the driving shaft the rolls and their supporting boxes of the wormwheels for imparting, through intermediate gearing, a rotary motion to the rolls and the eccentrics and rods for reciprocating the boxes and rolls at the same time.

No. 6793. Improvements on Meat Cans. (*Perfectionnements aux boîtes à conserves alimentaires.*)

George Brougham, Chicago, Ill., U. S., 20th November, 1876, for 5 years.

Claim.—The preserved meat can having heads with an outward bulge capable of becoming an inward bulge while the heads are secured to the sides, and having straight sides, the height of the can being not greater than the diameter of the heads or of the larger of unequal heads, whereby sufficient atmospheric pressure and the strength and substantial form of the sides is preserved.

No. 6794. Improvements in Pipe Joints. (*Perfectionnements aux joints de tuyaux.*)

Andrew O'Neill, Baltimore, Md., U. S., 20th November, 1876, for 5 years.

Claim.—1st. The pipe ends formed with lugs or flanges in combination with the collar provided with corresponding flanges or lugs for drawing the two ends of the pipe together; 2nd. The pipe end formed with lugs or flanges for the reception of the collar, and with a bead behind said lugs or flanges to receive a jack for pressing the pipe ends together; 3rd. The combination of the recessed pipe end the spigot end and a suitable casket C pressed between them; 4th. The jack K L M N constructed and employed for pressing coupling lugs on the ends of cut or common pipes.

No. 6795. Elliptic Spring Fitting Machine. (*Machine à fabriquer les ressorts elliptiques.*)

John S. Passenger, Birmingham, Ct., and George W. Passenger, Brooklyn, N. Y., U. S., 20th November, 1876, for 5 years.

Claim.—1st. A positive former for use in fitting or setting elliptic springs, in combination with a flexible upper die or series of weights or hammers, the former being constructed with an upper surface of the required shape and

No. 6875. Process and Machine for Facilitating Combustion in Furnaces of Boilers.*(Procédé et machine pour faciliter la combustion dans les fourneaux des chaudières.)*

James D. Mulrennan, Merriton, Ont., 12th December, 1876, for 5 years.

Claim.—1st. The process of forcing steam from the boiler or engine against the grate for the purpose of preventing the overheating of the bars of the grate and of facilitating the combustion of the coal; 2nd. The pipe *c* and perforated pipe *c* and *d*.

No. 6876. Improvements in Heating and Cooking Stoves.*(Perfectionnements aux poêles de chauffage et de cuisine.)*

John Van B. Carter and James Dwyer, Detroit, Mich., U. S., 12th December, 1876, (re-issue of Patent No. 1969), for 5 years.

Claim.—1st. The reservoir *M* provided with the plates *h*, and the combination sleeve *N* provided with the air ducts *j* arranged within the cylinder of 2 base burning stove with relation to a draft register *k* or equivalent device; and, The hopper *o* provided with the supporting studs *l* for supporting it above the magazine *M*; 3rd. The rotating and tilting grate *P* when provided with the jointed arms *n*, the latter with the cavity in its end; 4th. The spider *Q* for supporting the grate; 5th. The plate *R* provided with the studs *p* in combination with the grate arm and the slot *q* of the ash pit top; 6th. The depression *A* in the base plate *A* which with the ash box bottom forms the base flue; 7th. The prolongations *H* *Bi* of the side walls of the ash box and the flanges *d* of the section *E*, and an oven or a plain back plate which in combination with the fire pot form the back flue; 8th. In combination with a coal burning reversible flue heating stove an oven attachment on the rear thereof adapted to be heated in the passage of the products of combustion between the combustion chamber and the base of the stove; 9th. In combination with a coal burning reversible flue heating stove an oven attachment on the rear thereof adapted to be heated in the passage of the products of combustion between the base of the stove and the exit pipe; 10th. In combination with a coal burning reversible flue heating stove an oven attachment located immediately in the rear of the fire pot and ash pit with its base resting upon the base of the stove while its upper surface is upon a plane or nearly so with the top of the fire pot; 11th. In combination with a coal burning reversible flue heating stove a double walled oven attachment resting upon the base of the stove and on the rear side thereof adapted to be heated by the products of combustion in their passage to and from the base; 12th. The doubled walled oven *F* provided with the partition *F* projecting into and closing the back flue of a base heating stove to compel the heated currents to pass around the oven before finding an exit at the smoke pipe; 13th. The construction and arrangement of the base plate *A*, ash box *B*, fire pot *C*, annular sections *D* *E* *G* *H* *K*, cover *L*, magazine *M*, combustion sleeve *N*, plates *h*, air ducts *j*, register *k*, hopper *o*, flue *H* damper *J* and smoke pipe *I*; 14th. The combination with the sleeve *N* of the adjustable finger plate *N*; 15th. The sectional ash drawer front *D*.

No. 6877. Machine for Turning the Point of Nails.*(Machines à tourner la pointe des clous.)*

Daniel Herald, Gore's Landing, Ont., 12th December, 1876, (extension of Patent No. 1252), for 5 years.

Claim.—1st. The frame as constructed and applied for modeling the boat to be built so as to turn the points of nails in driving and clinch them; 2nd. Constructing the frame in sections and plating the exterior of the model with metal.

No. 6878. Improvements on Whiffletree Trace Fastenings.*(Perfectionnements aux pommeaux de fallonniers.)*

Callender I. Calvert, Philadelphia, Pa., U. S., 15th December, 1876, for 5 years.

Claim.—The provision to a whiffletree *A* of a crank loop *C* pivoted thereto by a pin *D* and receiving the trace *E* for confining it when looped on the button *B*.

No. 6879. Process for Liming, Bating and Tanning Skins.*(Procédé de plannage, trempage et tannage des peaux.)*

Magnus Soderberg, Lund, Sweden, and Mathew Armstrong, Jersey City, N. J., U. S., 18th December, 1876, for 5 years.

Claim.—Liming in a mixture of water, chloride of soda and gas ammoniac and afterwards bating them in a mixture of water, sulphur (dissolved with soda in water) and sulphate and finally tanning them first, in a mixture of bark liquor, dissolved gambier and sulphate of zinc, alcohol and acetic acid, and completing the tanning in a mixture of bark liquor, dissolved gambier, salt, gas ammonia and shume.

No. 6880. Process and Apparatus for Tempering Glass.*(Procédé et appareil pour tremper le verre.)*

François B. A. Royer de la Bastie, Villette, France, 18th December, 1876, (re-issue of Patent No. 4267), for 15 years.

Claim.—The process of tempering glass consisting in the subjection of the hot glass to a bath, the temperature of which is above the boiling point of water.

No. 6881. Process and Apparatus for Tempering Glass.*(Procédé et appareil pour tremper le verre.)*

François B. A. Royer de la Bastie, Villette, France, 18th December, 1876, (re-issue of Patent No. 4267), for 15 years.

Claim.—A new manufacture possessing the substantial properties consisting of glass subjected while in a highly heated state to a temperature above the boiling point of water.

No. 6882. Process and Apparatus for Tempering Glass.*(Procédé et appareil pour tremper le verre.)*

François B. A. Royer de la Bastie, Villette, France, 18th December, 1876, (re-issue of Patent No. 4267), for 15 years.

Claim.—1st. In combination with the oven for heating and the bath for plunging communicating with each other, the rocking table *e*; 2nd. In combination with the heating oven and plunging bath the tables *e* and 19; 3rd. In combination with the heating oven and plunging bath the rocking table *e* and the receiver *g*.

No. 6883. Manufacture of Barrel Staves.*(Fabrication des douves de barils.)*

Heman S. Smith, Brooklyn, N. Y., U. S., 21st December, 1876, for 5 years.

Claim.—A stave for barrels and casks that is made by machinery from the surface of a log.

No. 6884. Improvements on Churn Dashers.*(Perfectionnements aux batte-beurre.)*

Rodney M. Case, Auburn, N. Y., U. S., 21st December, 1876, for 15 years.

Claim.—1st. The perforated head *B* and wooden rods *C* passed through the dasher and fastened by the ticks *a*; 2nd. In combination with the solid perforated head *B* and rods *C* the screws *b* inserted in the head.

No. 6885. Art of Ventilating Railroad Cars.*(Art d'aérer les voitures de railroads.)*

Richard P. Cooke, Brockville, Ont., 21st December, 1876, for 5 years.

Claim.—The continuous air duct running from the fore part of the engine to the end of the train, having openings for admitting the pure air into the cars.

No. 6886. Improvements on Wood Screws, &c.*(Perfectionnements aux vis de bois, &c.)*

Thomas J. Sloan, New York, U. S., 21st December, 1876, for 5 years.

Claim.—1st. The wood screw having its head constructed with the conical recess *C* traversed by the groove *a*; and nearly or quite concentric with the axis of the screw; 2nd. The combination of the die *G* in which to upset the end of the blank or form the head of an ordinary screw, and the punch *n* with a central conical tool *r* for producing a conical hole in the centre of the screw head; 3rd. The movable head constructed with the die *m* and punch in combination with the die *G* for holding the blank; 4th. The sliding shaft *A* carrying the die *m*, punch *n* and tool *r* and driving shaft *C* carrying the cam *e* *f* in combination with the die *G* for holding the blanks; 5th. In a machine for recessing the heads of screw blanks, the combination of a feeding mechanism holding jaws and drill; 6th. The combination of a shaving cutter with a feeding mechanism holding jaws and drill; 7th. In a machine for recessing the heads of screw blanks the drill constructed and arranged to have a longitudinal movement irrespective of its normal feed, in combination with the fingers *E* of the blank feeding mechanism and the jaws *B* whereby the said drill is made to serve the double purpose of forcing the blank through the fingers to the jaws and recessing the head of the blank when the said blank is held by the jaws.

No. 6887. Machine for Grinding Harvester Knives.*(Machine à aiguiser les couteaux des moissonneuses.)*

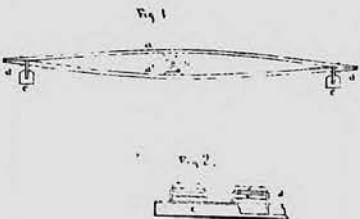
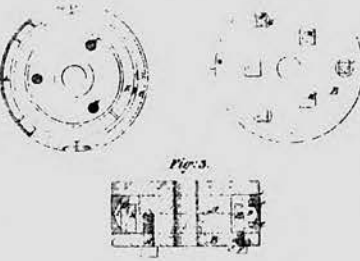
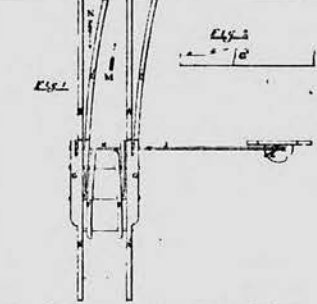
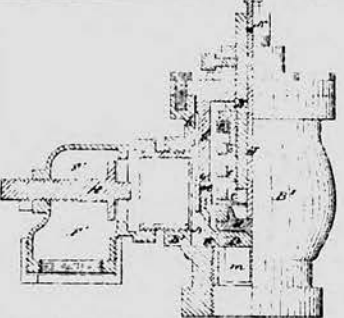
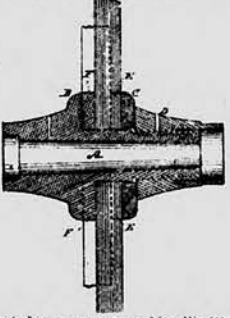
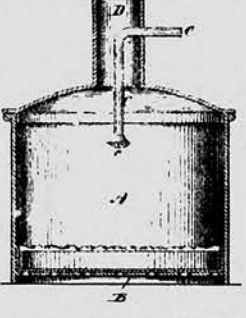
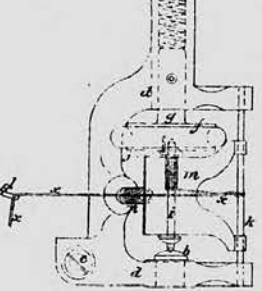
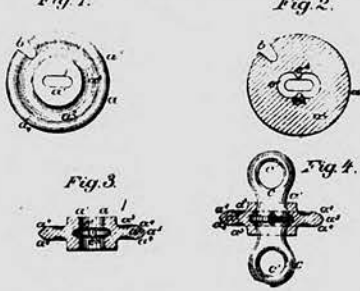
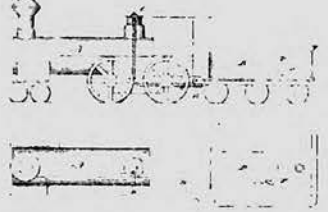
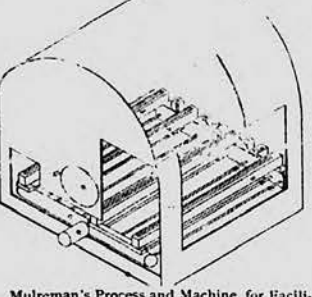
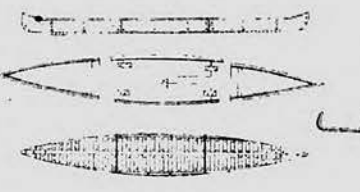
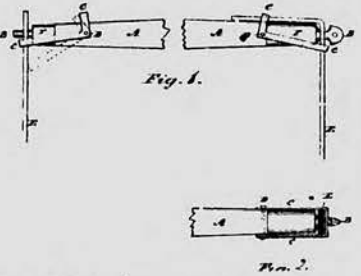
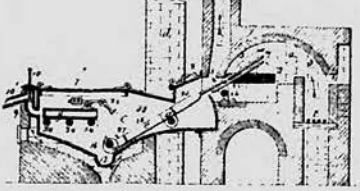
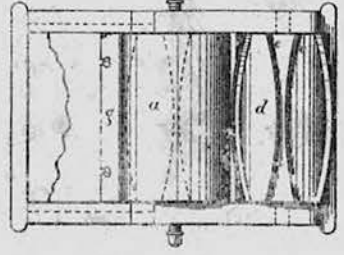

Charles B. George and Gerard Dunning, (assignees of Homer S. Stevens), Waukegan, Ill., U. S., 21st December, 1876, for 5 years.

Claim.—1st. The grinder *E* and shaft *F* in combination with the pivoted yoke *G* and suitable operating mechanism for moving the upper end of the yoke backwards and forwards; 2nd. The grinder *E*, shaft *F* and pivoted yoke *G*, in combination with the wheels *c* *d* and *e* and rod *g*; 3rd. The pivoted yoke *G*, post *f* and rod *g*, in combination with the wheel *e* having holes at different distances from the centre to regulate the travel of the yoke and stone; 4th. The post *f* and rod *g* in combination with the arm *h* for locking the yoke *G* and preventing its forward and backward movements; 5th. The combination of the grinder *E*, shaft *F*, pivoted yoke *G* and trough *C* provided with bars or supports *a* with a suitable supporting frame; 6th. The jointed sickle holder consisting of the parts *I* *J* *K* *L*; 7th. The frame or holder *K* provided with rests *u* *v* *e* *e* in combination with the lever *L*, set screws and projection *w* for holding the sickle in place; 8th. The frame or holder *K* having rests *u* *v* *e* *e* in combination with the head *J* and pivoted thereto for the purpose of enabling the operator to turn the sickle from one side of the grinder to the other; 9th. In a sickle holder the combination of the hinged head *J* provided with the projection *k* and the pivoted part *k* provided with the lock *n* *p*; 10th. In a sickle grinder the slotted bar *B* in combination with a suitable supporting frame *A* for the purpose of admitting of a vertical adjustment of the sickle; 11th. In a machine for grinding the sections of a sickle a sickle holder consisting of the parts *I* *J* *K* *L* in combination with a grinder *E*, shaft *F* and pivoted yoke *G*.

No. 6888. Improvements on Machines for Cutting Fibrous and other Materials.*(Perfectionnements aux machines à couper les substances ligneuses et autres.)*

Edward M. Jewett, (assignee of James Sangster), Buffalo, N. Y., U. S., 21st December, 1876, for 5 years.

Claim.—1st. The combination of the revolving disk *A*, cutters *D*, rods *E*, provided with arms *H* *H* and *I* with the slotted piece *J*, rod *K* and thumb screw *L*; 2nd. The combination of the disk *A*, cutters *D*, rod *E*, provided with arms *H* *H* and *I* or their equivalents with the slotted piece *J*, rod *K*, thumb screw *L* and parts *M* *N* *P*; 3rd. The disk *A* and adjustable cutters *D* provided with a central piece *J* having suitable connections for moving the

 <p>Fig. 1</p> <p>Fig. 2</p> <p>6865 Odell & Nutter's Improvements on Boiler Bottoms.</p>	 <p>Fig. 1</p> <p>Fig. 2</p> <p>Fig. 3</p> <p>6866 James' Improvements on Piston Packing.</p>	 <p>Fig. 1</p> <p>Fig. 2</p> <p>6867 Hodgson's Improvements on Railway Switches.</p>
 <p>6868 Ashton's Improvements on Safety Valves.</p>	 <p>6870 Foreman's Improvements on Metallic Wheel Hubs.</p>	 <p>6871 Barstow's Apparatus for Purifying Paraffine.</p>
 <p>6872 Powers' Improvements on Thread Winders.</p>	 <p>Fig. 1</p> <p>Fig. 2</p> <p>Fig. 3</p> <p>Fig. 4</p> <p>6873 Hoyt's Improvements on Chain Pump Buckets.</p>	 <p>6874 Ashton's Improvements on Railroad Locomotives.</p>
 <p>6875 Mulreman's Process and Machine for Facilitating Combustion in Furnaces of Boilers.</p>	 <p>6877 Herald's Machine for Turning the Point of Nails.</p>	 <p>Fig. 1</p> <p>Fig. 2</p> <p>6878 Calvert's Improvements on Whiffletree Trace Fastenings.</p>
 <p>6880 Royer de la Bastie's Process and Apparatus for Tempering Glass.</p>	 <p>6883 Smith's Manufacture of Barrel Staves.</p>	 <p>Fig. 1</p> <p>Fig. 2</p> <p>6884 Case's Improvements on Churn Dashers.</p>