

**No. 6750. Construction of Gates, Fences and Railings.**

(Construction des barrières, clôtures et garde-fous.)

William T. Cleveland, Richmond, Que., 9th November, 1876, for 5 years.  
*Claim.*—The application of iron or other metal tubes exclusively for fences, &c. having their ends cut with screw threads to screw into the socket joints by which the fences, rails, gates, &c., are lengthened and the frame work put together and braced without the necessity of rivetting, welding or nailing; 2nd. The method of running hot sulphur or other cement into the tubes to secure the wire rigidly in its place, thereby adding materially to the strength and rigidity of the work.

**No. 6751. Improvements on Stuffing Boxes for Steam Engines.**

(Perfectionnements aux boîtes d'étoupe de machines à vapeur.)

Charles T. Sleeper, Charles C. Jerome and James M. Hill, Chicago, Ill. U.S., 9th November, 1876, for 5 years.  
*Claim.*—1st. The conically arranged metallic rings *a*, or their equivalent, sitting around the piston rod *E* and compressed against it, and the conical cap *F*, preferably by the action of steam for the purpose of making a steam tight joint around the said piston rod *E*; 2nd. The tubular sleeve *E* provided with the conical cap *F* adjusted to extend through and admit of a radial movement within the plate *C*; 3rd. The combination with plate *C* sleeve *E* provided with the conical cap *F* and collar *H* of the ring *G* fitted around the said sleeve *E* between the collar and plate. 4th. The combination with the cap *F* and plate *C* and *J* of the springs *K*.

**No. 6752. Buggy Spring Coupling and Support.**

(Ajustage et support des ressorts de bagheys.)  
 John McBride Strathroy, Ont., 9th November, 1876, for 5 years.  
*Claim.*—The combination of the iron clips *P* *P* attached to the axle and head block at the junction of the reaches *D* *D* with the axle, and head block having arms extending along the reaches and rivetted thereto with sockets or eyes at *C* in the arm of each clip for the insertion of the bar *B* *B* in such manner that the bar rests transversely across the reaches *D* *D* between the axles, but contiguous thereto also the coupling of the conical springs to these bars when so placed or inserted and resting as aforesaid on the reaches *D* *D*.

**No. 6753. Improvement in the Moulds and Manufacture of Glass Lamps.**

(Perfectionnement dans les moules et dans la fabrication des lampes de verre.)  
 Hiram Dillaway, Sandwich, Mass., U. S., 9th November, 1876, for 5 years.

*Claim.*—1st. The moulded article or lamp bowl provided with the stellated waste oil interceptor and having such the neck and the remainder formed in and by a mould and the lower or cylindrical portion subsequently contracted and closed, and fixed to a peg or foot; 2nd. The mould composed of the series of sections *D*, the parts *E* and *I* the tubular cylindrical portion *F* and the plunger *G*; 3rd. The process of making the said article or lamp bowl, such consisting in forming its neck and body parts in a mould and open, and subsequently heating and contracting or closing the cylindrical open part *d* of the blank and fixing to it a peg or foot; 4th. The combination of the projections *p* and *q* with the plunger *G*, the parts *E* and *I*, the tubular portion *F* and the series of sections *D*.

**No. 6754. Window Sash Fastener.**

(Arrête-croisette de fenêtre.)  
 Elbert Stannard, West Brook, Ct. U. S. 10th November, 1876, for 5 years.  
*Claim.*—1st. The combination with the vibrating prop *D* having spurs *e* above and below its pivot and arranged in line with and adapted to form a part of the parting strip of the holder or seat plate recessed into the window frame in line with said strip and provided with grooves *e* to engage with said spurs; 2nd. The combination with the parting strip sections and the parting strip groove of the sash holder consisting of the pivoted prop *D* and its holder or seat plate *E* notched at the ends extending into said groove and engaging with said sections; 3rd. The combination with the seat plate *E* and its pivoted prop of the recessed sash plate *K* having an offset *z*.

**No. 6755. Improvement in Shafting Couplings.**

(Perfectionnement dans l'accouplement des arbres.)  
 Robert Poole, Baltimore, Md. U. S. 14th November 1876 for 5 years.  
*Claim.*—The combination of the grooved shafting the elliptic tapering split sleeve enveloping the key carried by said sleeve and the clamping nuts working on the inclined surfaces of the sleeve.

**No. 6756. Manufacture of Illuminating Gas.**

(Fabrication du gaz d'éclairage.)  
 Myron H. Strong, Brooklyn, N. Y., U. S., 14th November, 1876, for 5 years.  
*Claim.*—1st. The combined process of making non-luminous gas and alternately heating the retort for again making the gas by admitting into the retort coal dust or similar carbonaceous material and reheating the retort by the combustion of the coke of the carbon; 2nd. In combination with the process of manufacturing illuminating gas by passing non-luminous gas through highly heated carbon the process of making such non-luminous gas from pulverized carbon introduced in steam into a highly heated retort in the presence of steam; 3rd. The process of making gas by admitting steam into the retort while coal dust or other pulverized carbonaceous material is being fed thereto in combination with the process of reheating the retort by the combustion of the additional carbon which is introduced, thereinto; 4th. A retort, a steam supply a contiguous supply of coal dust and a second supply of coal dust near the end of the retort from which the gas escapes, whereby the coal dust exposed to the highest heat in the presence of steam is decomposed to form non-luminous gas, and this is brought into contact with the second supply of carbon to enrich or carburett such non-luminous gas.

**No. 6757. Improvements in Rudder Supporters.**

(Perfectionnements aux supports des gouvernails.)  
 Frank S. Manton, Providence, R. I. U. S., 14th November, 1876, for 5 years.  
*Claim.*—1st. In combination with the rudder post *a* of the circular plates *b* and *c* provided with grooves and with the anti-friction balls or their equivalent; 2nd. The plates *b* and *c* made in two parts and provided with the anti-friction device.

**No. 6758. Shaft Coupling.**

(Accouplement des arbres.)  
 Asa B. Cook, Erie, Pa., U. S., 14th November, 1876, for 5 years.  
*Claim.*—The screw threaded nut *C* having the interior ring or flange *e* in combination with a screw threaded hub *A* and split taper sleeve *B*.

**No. 6759. Furnace Grate.**

(Grille de fourneau.)  
 Jesse Reynolds, Philadelphia, Pa., U. S., 14th November, 1876, for 5 years.  
*Claim.*—1st. The combination of rock shafts *H* provided with bars *h*, said bars being so arranged on the shafts as to form teeth for crushing and grinding the cinders as the said shafts are rocked simultaneously and in the same direction; 2nd. The rock shafts *H* provided with bars *h* having ribs *i*; 3rd. The combination of the bars *h* with rock shafts *H* elongated; 4th. The combination of the series of rock shafts *H* and their bars with the frame *G*; *G* *G* and *G*; formed in two sections joined together; 5th. The combination of the frame and its rock shafts with the supporting rollers *a* to permit the withdrawal of said frame; 6th. The combination of the frame and its rock shafts with the teeges *p* on the sides and rear of the fire place.

**No. 6760. Spring Bed Bottom.**

(Fond de lit à ressorts.)  
 Thomas DeWitt, Chatham, Ont., 14th November, 1876, for 5 years.  
*Claim.*—The combination of the block *C* *C* with the slats *D* *D*.

**No. 6761. Lamp Post.**

(Poteau de réverbère.)  
 William DeLany, Cobourg, Ont., 14th November, 1876, for 5 years.  
*Claim.*—The combination in a skeleton post of bars and rings and the method of keeping the bars in position by means of the inner and outer rings.

**No. 6762. Saw Mill Dog.**

(Clamau de scierie.)  
 Alfred Mephum, Fayette, Ohio, U. S., 14th November, 1876, for 5 years.  
*Claim.*—1st. The block *C*, adjustable log dog *H*, cranked pinion *I*, ratchet lever *K*, ratchet wheel *J* and toothed standard *A*; 2nd. The block *D*, adjustable plank dog *N* and bars *O* *P* combined with the block *C* and standard *A*.

**No. 6763. Brewery Plant.**

(Materiel de brasserie.)  
 Andrew B. Walker, Liverpool, Eng., 14th November, 1876, for 5 years.  
*Claim.*—The construction and application of the peculiar forms of tubular screws and others, and also their various modes of action, namely: rotary, reciprocating, jolting, shaking, jumbling and circular motions; the application of the above to the various processes used and purposes.

**No. 6764. Improvements in Reed Organs.**

(Perfectionnements aux orgues à anches.)  
 James S. Robinson, North East, P. U. S., 14th November, 1876, for 5 years.  
*Claim.*—1st. In combination with an actuating device a series of cams or inclines arranged on one bar or shaft to operate the mutes or stops of an organ; 2nd. In combination with the mutes of an organ a bar or shaft provided with cams or inclines for operating said mutes by a movement of said bar or shaft; 3rd. In combination with a rotating shaft with cams the rack and pinion *G*; 4th. In combination with the sliding rack *G* with kurr push *G*, the jointed ratchet bar *H*; 5th. In combination with the sliding frame *G* and cam bar or shaft *J*, the spring *T* for giving a return motion to the same; 6th. In combination with the mutes *F*, the registers *D* within the name board *C* for indicating the position of said mutes; 7th. A combination with the main board *C* of an organ the mute register *D* in combination with the name board *C* of the *L* shaped slot through which passes the stop actuating levers *S* *Q* or its equivalent; 9th. A jointed or springing stop actuating lever in combination with a cast *slot* *L*, or its equivalent, in the name board *C* of an organ; 10th. The combination of the key *K* and name plate *V* placed on the name board *C* for indicating the position of the stop; 11th. The combination of the treadle *N*, sub treadle *N*, with the sustaining bars *L* for adjusting the said treadle to various heights; 12th. In combination with the pedal part *P* of an organ case the sliding curtain board *O*; 13th. The adjustable treadle *N* and sub treadle *N*, in combination with the exhaust *V* of an organ; 14th. In combination with an organ the swinging and adjustable lamp bracket; 15th. The lamp sustaining bracket for organs composed of the adjustable attaching bracket, jointed arm and lamp receiver; 16th. The register name plate *M* made with attaching stem with eye, *m*, for securing the same in place; 17th. An organ treadle *N* made with a reversible carpet *n*.

**No. 6765. Improvements on Chairs and Seats.**

(Perfectionnements aux chaises et aux sièges.)  
 Thomas Testevin, Council Bluffs, Iowa U. S., 14th November, 1876, for 5 years.  
*Claim.*—1st. A fabric for chair seats and other purposes composed of a spring wire warp *a* and fibrous web woven together; 2nd. The combination with a seat frame of a back supporting frame having elastic side pieces *d* *d*; 3rd. The combination with a seat frame and a spring back frame attached thereto, of a spring supported suspended seat bottom; 4th. The combination with a seat frame of the vertically adjustable suspended seat *E*; 5th. The combination with a suspended seat *E* and a flexible back covering said seat and attached thereto at the rear edge of an adjusting roller *D* adapted to be locked against backward rotation; 6th. The combination with the flexible and adjustable seat back *E* of the end wise movable sheathed springs *L*; 7th. The combination of the segment rack *b*, elastic back *d* and bearing loops *b*; for adjusting and retaining