Claim.—1st. A transfer for freight or other service consisting of a platform or its equivalent, for the load mounted on the upper end of a supporting lever or levers, the said lever being hinged, pivotted, or steeped at its foot. 2nd. A platform or its equivalent, a supporting lever or levers and a cushion spring to check the descent of the load. 3rd. The transfer consisting of the platform, or its equivalent, mounted on the supporting lever or levers, in combination with the sides of the slots in which the lever or levers play, adapted to form guides for said levers. 4th. The combination, with the transfer of the means for operating it from within doors. 5th. The device for covering slot in the walk, in combination with the transfer. 6th. The locking device whereby the platform is held when down on the step. 7th. The construction of the platform with one part fixed and one part hinged thereto. hinged thereto.

No. 13,971. Improvements on Thill Couplings. (Perfectionnements aux armons des limonières.)

Henry T. Perram. Stamford, Ont., 11th January, 1882; for 5 year.

Claim.—In a thill coupling in which the end of the thill B is inserted in the usual way into the ordinary socket B, a coupling pin C provided with a head D having a slotted groove a, in combination with a detachable hook bracket F and spring E, one end of the latter fitting into a hold b in the detachable bracket F, and its other end slipped into the slotted passageway a in the head D, the centre of the spring being sprung over an elastic block (†.

No. 13.972. Explosive Powder.

(Poudre explosible.)

L. A. M. C. S. Robert, Paris, France, 11th January, 1882; for 5 years. Claim.—1st. The use of salt in the form of a limpid solution. 2nd. The use of a natural cellulose which is at the same time porous, elastic and homogeneous in all its parts. 3rd. Obtaining an explosive by simple drying after absorption of the saline solution by a porous body, without recourse to any mechanical process.

No. 13,973 Improvements in the Manufacture of Hose. (Perfectionnements dans la fabrication des bas.)

William B. Pollock, Montreal, Que., 11th January, 1882; for 5 years. Claim.—As a new article of manufacture, a woven or knitted hose or stocking decreased at the ankle by stitching E.

No. 13,974. Improvements in Skirt Adjusters. (Perfectionnements aux pince jupons.)

Nannie C. Greene, South Brooklyn, N. Y., U. S., 11th January, 1882; for 5 years.

Claim.—As an improved article of manufacture, the skirt adjuster consisting of two straight pieces of webbing A B provided with rings or eyelets C on their inner edges, and with spring clasps E on their outer edges, and the lacing string D, the said clasps being adapted to be clasped upon the side seams of the back breadth of a skirt.

No. 13,975. Improvements on Waggons.

(Perfectionnements aux wagons.)

James Cruickshank, Weston, Ont., 11th January, 1882; for 5 years.

Claim.—A waggon having an ordinary bolster, brackets fitted to the end of the said bolster and provided with projecting arms arranged to earry adjustable clevices, in combination with elliptic springs arranged to support the body of the waggon, and detachably connected to the said clevices by a bolt or bolts.

No. 13,976. Improvements on Metallic Cof-(Perfectionnements aux cercueils fins. métalliques.)

William D. McGloghlon, London, Ont., 11th January, 1882; for 5

Claim.—The air tight burial casket or coffin A stamped in one piece out of iron or other metal, and having a metallic id B provided with glazed opening C D and metallic covering plate Br, said lid being soldered down to upper edges of coffin after the body is placed therein.

No. 13,977. Improvements on Milk Coolers.

(Perfectionnements aux garde lait.)

Alfred Allaire and François Allaire, St. Lin, Que., 11th January, 1882; for 5 years.

Resume.—10. L'arrangement et la combinaison avec le bassin à lait A muni du tuyau de décharge a, du bain B, ayant une cloison b, couverele c, une boite a glace d, un tuyan e et des arêtes f. 20. La combinaison du bassin à lait A avec le bain B ayant la doublure C, les trous d'épanchmement b et le tuyau de décharge f.

No. 13.978. Improvements on Fanning Mills.

(Perfectionnements aux tarares-cribleurs.)

William C. Howarth, St. Thomas, Ont., 11th. January, 1882; for 5 vears.

Claim.—1st. The slide P. 2nd. The crank shaft E. 3rd. The shoe G provided with the distributors T. 4th. The combination of the cog wheels B Br, rod D and crank shafts E Et. 5th. The combination of the shoe G and slide P. 6th. The combination of the shoe G and slide P. 6th. The combination of the shoe G, and the crank shafts E Et.

No. 13,979. Improvements on Injectors.

(Perfectionnements aux injecteurs.)

The Hancock Inspirator Company, (Assignee of John T. Hancock,)
Roston, Mass., U. S., 11th January, 1882; (Extension of Patent
No. 7011.)

No. 13,980. Improvements in the Manufacture of Hubs. (Perfectionnements dans la fabrication des moneux.)

George W. Bentley, Atha. Ont., (Assignee of Chauncey H. Guard, Dayton, Ohio, U.S.,) 16th January, 1882. for 5 years.

Claim.—The construction of a carriage wheel hub in which a lamina composed of wood veneer, cloth or thread and glue is wound around the body of the hub prepared therefor, which, when so wound, forms the bulge or swell of the hub, whereby the laminated body of the said hub becomes eneased within a band which renders it impervious to the weather and other causes of decay.

Current No. 13,981. **Improvements** on Wheels. (Perfectionnements aux elevateurs d'eau.)

Alexander D. Clark, Omaha, Neb., U.S., 16th January, 1882; for 5 years.

Claim.—1st. The combination, with the raft floated by air contain Claim.—1st. The combination, with the raft floated by air containing tubes, of the horizontal current wheel and the pump, and devices for conveying power from the wheel to the pump. 2nd. The combination, with the raft having the opening B1, of the wheel supported upon a vertical shaft located in said opening and removable bearings for said shaft. 3rd. The wheel C consisting of the hinged vanes (3, and the open frame work composed of the bands r c, hub plates of upon the wheel shaft, vertical braces e² c³ and radial arms c⁴ c⁵.

No. 13,982. Improvements in Guards for (Perfectionnements Saws. Circular aux garde-scies rondes.)

Richard W. Taylor, Bury St. Edmunds, Eng., 16th January, 1882; for 5 years.

Claim.—A metal curved plate or plates suspended over the periphery or edge of the saw and in the same plane as the saw, but permitted to move in a circle concentric, or nearly concentric with the saw, and mechanism for restoring the same automatically to its normal position.

Railway No. 13,983. **Improvements** in Brakes. (Perfectionnements aux freins des railroutes)

Carl F. Sinn and William Studer, Montreal, Que., 16th January. 1881; for 5 years.

1881; for 5 years.

Claim.—1st. A railway brake in which the brake shoes are in their normal position in contact with the wheel tires and removed therefrom by the action of the braking mechanism. 2nd. The combination of the bent lever N N! pivoted to car, connected at one end with brake lever and with its other end normally held down by weight 1 3rd. A brake mechanism operated either by hand or power composed a chain or rope with a hand brake or fixed point, and a rod passing out beyond the other end of the car and connected by a rope of chain with mechanism for operating the brake lever, each of these chains or ropes passing over a separate sheave and both sheaves being carried in a sliding hanging frame. 4th. The combination of the lever L acted upon by traction on either of the chairs E I, the chain M passing over sheave m, and the lever N N, carrying weight P and

No. 13,984. Improvements on Apparatus for Carrying Eggs. (Perfectionnements aux appareils à transporter les oeufs.)

John Halley and Alexander Barr, Glasgow, Scotland, 16th January, 1882: for 5 years.

Claim.—An egg holder having holding members or fringes made of spring wire and shaped with upper parts closing or contracting over the egg, but with the extreme upper ends flared or bent outwards and forming inclines by acting on which the egg opens the holder, when being inserted.

No. 13,985. Improvement in Tobacco Cad (Perfectionnement des boites dies.

George T. Tuckett, Hamilton, Ont., 16th January, 1882; for 5 years Claim.—A sheet metal box A for packing tobacco constructed with the V-shaped notches a at the corners forming the projections b b b, in combination with the cover B as constructed with notches a c c d at the corner flanges d d d d to fit under, and be overlapped by projections b of the box.

No. 13,986. Improvements in Ploughs.

(Perfectionnements aux charrues)

William Sanderson, Eramosa, Ont., 16th Janury, 1882; for 5 years.

William Sanderson, Eramosa, Ont., 16th Janury, 1882; for 5 years.

Claim.—1st. A share point A constructed with perforations b in its rear end, so that a pin F, placed in one of the perforations b and bearing on a shoulder piece G constructed on the plough head, will secure the said share point from being moved backwards, when at wor it the field. 2nd. A landside D constructed with a clamp H on and interior surface, in which a share point A is moved backward and forward as required, and permits of a wedge B passing through the same and above the share point and into the groove h h which, share point A. 3rd. The landside of a plough constructed with a groove b h in its interior surface, and a projecting shoulder piece G in the rear end of the plough head having a lateral slot h therein, forward as required, a pin F placed in the share point A in front of the shoulder piece G, and a wedge B placed above the same in groove h with set screw in rear end, when tightened, will prevent any slippins with set screw in rear end, when tightened, will prevent any slippins