

et lavabos de l'intérieur des bûisses. 2°. La disposition du tuyau de renvoi B et du conduit d'égout C, le premier placé à un niveau plus élevé que le second, de telle sorte que lorsque l'eau, à l'intérieur de la Citerne A, s'élève jusqu'à la hauteur du conduit d'égout C, le côté inférieur de la trappe E se trouve immergé.

**No. 11,893. Mould for Casting Chilled Mould Boards.** (*Moule pour le coulage des versoirs trempés.*)

George Wiard, Batavia, N. Y., U. S., 20th October, 1880; for 5 years.

*Claim.*—A metallic chill plate, for casting mould boards and similar articles, made thickest at the point where the molten metal enters the mould and made gradually decreasing in thickness towards the extremities of the mould in all directions.

**No. 11,894. Improvements on Steam Vessels.** (*Perfectionnements aux vaisseaux à vapeur.*)

Andreas Olsen, Ephraim, Utah, U. S., 20th October, 1880; for 5 years.

*Claim.*—1st. In the hull of a vessel, the two longitudinal tubular pontoons AA, sustained parallel to each other at a suitable distance apart by the transverse connecting braces B, in connection with posts or struts D extending vertically from each pontoon, longitudinal tubular cylinders B connected to the upper ends of the vertical posts or struts, immediately above and parallel with the pontoons and the transverse braces C connecting the two cylinders, the said cylinders and posts or struts serving to support or sustain the deck and cabins of the vessel. 2nd. The combination with the vessel, of one or more turn tables supported upon or in the deck, so as to permit of their being readily turned, and one or more paddle wheels, having their shafts supported in said turn tables and adapted to turn with said turn tables.

**No. 11,895. Improvements on Dental Compounds.** (*Perfectionnements aux composés dentaires.*)

Herbert E. Dennett, Boston, Mass., U. S., 20th October, 1880, for 5 years.

*Claim.*—1st. In a dental preparation for preventing pain in operating on the teeth, the combination of an astringent and an obtundent. 2nd. The combination of a desiccant and an obtundent. 3rd. The combination of an astringent, a desiccant and an obtundent. 4th. The combination of an astringent, an obtundent, and an anodyne. 5th. The combination of an astringent, an obtundent, a desiccant, and an anodyne. 6th. An obtundent and a desiccant embodied in one and the same ingredient, in combination with an astringent. 7th. An obtundent and a desiccant embodied in one and the same ingredient, in combination with an astringent and an anodyne. 8th. The combination of glycerine and tannic acid. 9th. The combination of glycerine, tannic acid, and chloral. 10th. The combination of glycerine, tannic acid, chloral, and camphor.

**No. 11,896. Manufacture of Plumber's Traps.** (*Fabrication des puisards d'aisance.*)

Charles S. Watson and James Rose (Assignees of John Robertson), Montreal, Que., 20th October, 1880; (Extension of Patent No. 5,727).

**No. 11,897. Car-Coupling.** (*Attelage de wagons.*)

Gilman H. Ames, Adrian, and Embree B. Lapham, Rockford, Mich., U. S., 20th October, 1880; (Extension of Patent No. 5,367).

**No. 11,898. Manufacture of Plumber's Traps.** (*Fabrication des puisards d'aisance.*)

Charles S. Watson and James Rose (Assignees of John Robertson), Montreal, Que., 21st October, 1880; (Extension of Patent No. 5,727).

**No. 11,899. Car-Coupling.** (*Attelage des wagons.*)

Gilman H. Ames, Adrian, and Embree B. Lapham, Rockford, Mich., U. S., 21st October, 1880; (Extension of Patent No. 5,367).

**No. 11,900. Churn Dasher.** (*Batte-beurre.*)

Asher Holmes, Hamilton, Ont., 22nd October, 1880; (Extension of Patent, No. 5,361).

**No. 11,901. Washing Machine.** (*Machine à laver.*)

James H. Connor, Brockville, Ont., 22nd October, 1880; (Extension of Patent No. 5,340).

**No. 11,902. Improvements on Railway Spikes.** (*Perfectionnements aux clous barbelés pour les chemins de fer.*)

James P. Perkins, Minneapolis, Minn., and Charles C. Jones, Fargo, Dakota, U. S., 26th October, 1880; for 5 years.

*Claim.*—1st. A spike having a squared portion just beneath the head, and a triangular portion below this, with one of the sides of the triangular portion in the same general plane with one side of the square portion, and with the other two sides of the triangular portion replacing or cutting off the angles of the square part. 2nd. A spike A with the head B projecting in front and at the sides, the square upper part C, the triangular lower part D, having concave sides and meeting the square upper part C, with inclined shoulders E, and wedged-shaped point F. 3rd. A spike, having its head projecting to one side, and its body constructed with a square upper part B, and a triangular lower part D, having concave sides meeting the sides of the square part with inclined shoulders E, and having a wedge point with a longer level on the front side. 4th. A spike, having its head projecting to one side, and having a wedge point with a longer level on the same side with the head. 5th. A triangular spike having one side straight, and a head which is flush with this side, but projecting over the angle of the triangle, on the other side.

**No. 11,903. Improvements on Portable Pens.** (*Perfectionnements aux enclos portatifs.*)

Francis Green, Sr., Oakville, Ont., 26th October, 1880; for 5 years.

*Claim.* 1st. A portable pen composed of the panels A provided with the posts B B', stud C, tapered key D, gibs E and cutters F. 2nd. In combination with a portable pen, a tree guard G provided with locked suspenders H.

**No. 11,904. Improvements on Cabinet Bed-Steads.** (*Perfectionnements aux armoires-bois de lits.*)

Thomas A. Covey, Halifax, N. S., 26th October, 1880; for 5 years.

*Claim.* 1st. The combination of the cabinet sections A B having parallel movement side rails D D' pointed at the middle, hinged at the ends to said sections and folding within the same. 2nd. In combination with the hinged side rails D D', the supporting leg G having pivotal connection with one section and a slotted connection with the other, whereby the leg will adjust itself to the different angles of the joint fold with rail and be perpendicular when the rails are in horizontal alignment. 3rd. In combination with an automatic self-adjusting leg G, a spring or springs b. 4th. The combination, with the section B and rails D D', of the knob I, disk J or an equivalent crank movement rod K, levers L, L' and segment levers M.

**No. 11,905. Tube Expander.** (*Dilatateur de tuyau.*)

Patrick Fitzgibbons, Oswego, N. Y., U. S., 30th October, 1880; (Extension of Patent No. 5,334.)

**No. 11,906. Elastic Paint Compound.** (*Composé à peinture élastique.*)

Hugh Baines, Oakville, Ont. (Assignee of Jacob B. Slichter, Kalamazoo, Mich., U. S.), 30th October, 1880; (Extension of Patent No. 5,297.)

**No. 11,907. Car Brake.** (*Frein de wagon.*)

Watson P. Widdifield, Siloam, Ont., 30th October, 1880; (Extension of Patent No. 5,333.)

**No. 11,908. Improvements on Lime Kilns.** (*Perfectionnements aux fours à chaux.*)

Frederick J. Chubb, (Co-inventor with Benjamin Hunniford), Guelph, Ont., 30th October, 1880; (Extension of Patent No. 5,341.)

**No. 11,909. Improvements on Carriage Tops.** (*Perfectionnements aux soufflets des voitures.*)

The Guelph Carriage Goods Company, Guelph, Ont., (Assignee of John R. Chapman, Whitewater, Wis., U. S.), 30th October, 1880; (Extension of Patent No. 9,302.)

**No. 11,910. Improvements in Lumber Driers.** (*Perfectionnements aux sécheries à bois.*)

Philander G. Finn, Erie, Pa., U. S., 30th October, 1880; for 5 years.

*Claim.*—1st. The combination, with the end walls, bottom and steam pipe chamber, of the upright partitions K placed as described, so as to form air ducts or flues at the ends of the pile chamber. 2nd. The combination, with the end walls, bottom and steam pipe chamber, of upright partitions K and horizontal partitions D E F placed as described, so as to form air spaces or flues M N O P. 3rd. The combination, with air flues M N O P at the ends thereof, formed as described, of a board pile formed of boards lying across the kiln, and strips S lying lengthwise of the kiln at or near the ends of the boards, thus forming interspaces which serve as air ducts from the flues at one end of the kiln, to the flues at the other end of the kiln. 4th. In the vertical passages for hot air at opposite ends thereof, the combination, with said vertical passages, of a pile of boards piled as described, so as to have horizontal passages through the same connecting with the said vertical passages, and obstructions placed in said vertical passages as shown, so as to divert the hot air from a vertical to a horizontal direction, and cause it to flow through the horizontal passages in the board pile from the vertical passage at one end, to the vertical passage at the other end of the kiln.

**No. 11,911. Improvements on Earth Excavators.** (*Perfectionnements aux terrassiers.*)

Joseph T. Parlour, London, Eng., 30th October, 1880; for 5 years.

*Claim.*—1st. The novel combination of frames A, rising and lowering gear I, endless chain of buckets H H, quadrants N and the two rotating excavating scoops working in opposite directions. 2nd. The rotating excavating scoop with cutting detachable edges E and inclined backs F. 3rd. The rotating hollow cased dredging scoop with cutting edges on the periphery and opening in the side.

**No. 11,912. Improvements on Saw-Guides.** (*Perfectionnements aux guide-scies.*)

George W. Rodebaugh, Jackson, Mich., U. S., 30th October, 1880; for 5 years.

*Claim.*—1st. The adjustable slides C C, provided with oil chambers having contracted orifices through which the oil may be discharged for lubricating purposes. 2nd. The adjustable slides C C, provided with oil chambers having contracted orifices, in combination with a wick, whereby the oil is withdrawn from the chamber by capillary attraction. 3rd. In saw-guides C C, and in combination with a bed-plate A, the slides C C, provided with bearings e r and adjustable by means of thumb-screws b. 4th. In saw guides C C, the bearing points adapted to perform their legitimate functions as guides, and to deliver upon opposite faces of a saw blade. 5th. The combination, with the slotted bed plate A provided with the holes d, of the frame B adjustable on the bed plate and carrying the adjusting screws b, hollow angular slide C, hollow straight slide C; having oil chambers d o, bearings e r having central orifices and wicks m q.