each other, or either of them, consisting of a scale for determining the position of these sections, a pin, pencil, or other device used, in connection with said scale, for marking, upon the last or last block, the same, and an indicating figure or other device for each length of block which the scale is applied, 2nd. A series of measuring straps, hearing indicating marks for determining the various dimensions which a last of a given size shall possess, printed or marked s, on paper, cloth, or other devide uniterial, and adapted to be severed into independent straps of varying lengths.

No. 9906. Improvements on Portable Boats.

(Perfectionnements aux cinots portalifs.)

Charles De Cazes, Winnipeg, Man., 29th April, 1879 for 5 years.

Claim.—ist. In a portable boat the sections Λ B Chaving the bulk heads a, botton s b and grooves c. 2nd In a portable boat, the combination of the sections Λ B C with the tie rod or rope, or any approved substitute therefor, plates s and bolts p: 3rd. The combination of a portable boat, composed of several sections, with the rack composed of the raits Λ_1 and pins C_1 .

No. 9907. Improvements on Animal Powers. (Perfectionnements aux munéges.)

James J. Heenan, Ops. Ont., 29th April, 1879, for 5 years.

Claim.—lat. The combination of the driving roller B, the latch B the construction of the frame A and the friction roller B is attached to the ends of frame. 2nd. The combination, with the driving roller B, latch B and frame A, of the shaft C, pulley J attached to the end thereof and outside the balance wheel I and the platform D

No. 9908. Improvements on Curtain Fixtures. (Perfectionnements aux ajustages des rideaux.)

John S. Henry, North-Bellevernon, Penn., U. S., 29th April, 1879, for 5 years.

Claim. -1st In an improvement on curtain fixtures, the cylinders C with longitudinal slots D, passed over the roller and the folded end of the curtain thereon, to fasten it to the roller, in combination with the roller and curtain. 2nd. The brackets F with curved end H, in combination with eye G, attached to the window frame in which they are entered, and pivots E on the ends of cylinders C, 3rd. The combination, with the curtain roller having ratchet wheel g and cord j, of the bracket E and suspended hook, or ring h, pivoted at its upper end in front of the roller and extended below the ratchet to form an eye or loop for the cord.

No. 9909. Improvements on Car Replacers. (Perfectionnements aux enrailleurs des wagons.)

Elisha Newcomb, Westbrook, Me., U. S., 29th April, 1879, (Extension of Patent, No. 3531) for 5 years

No. 9910. Improvements on Gas Apparatus. (Perfectionnements aux appareils a guz.)

John Haulon, New York, U. S., 29th April, 1879, for 5 years.

John Hanlon, New York, U. S., 23th April, 1879, for 5 years. Claim—1st In a gas apparatus, a boiler and super heater D, provided with an upper and lower longitudinal chamber communicating at the rear, in combination with a series of boiler tubes E: and water supply pipes F; 2nd. The boiler and super heater D, in combination with the retorts E, provided with the chamber f having elongated spiral ribs, in combination with the boiler and super heater D and connecting pipe F 4th. The retort E, provided with the discharge pipes, in combination with the washer I and supporting frame is, provided with the friction rollers m. 5th. The adjustable dipoup, in communition with the operating worm serew P and washer I, and its supporting frame mounted on friction rollers m.

No. 9911. Improvements on Wardrobe Bedsteads. (Perfectionnements aux conchettes garde-robes.)

Harlan P. Blackman and Charles S. Greene (Assignees of Frederick Caulier)
Philadelphia, Penn., U. S., 1st May, 1879, for 5 years

Claim.—1st. In a wardrobe bedatead, the rail bt, centrally of the bottom of the portion C. in combination with the hinged sections D D; 2nd. The wardrobe bedateal having convertible hinged sections D Dr Dr; 3rd. The counterbalance mechanism of the bedatead portion C consisting of coiled springs F and madrels E. 4th. The portion C, in combination with the mandrels E, springs F and jointed arms d.

No. 9912. Improvements on Sewing Machines (Pe fe tionnements aux mahines à coudre.)

John C. Love (Assignee of James F. Snediker). Philadelphia, Penn., U. S., 1st May. 1679, for 5 years.

Claim — at \ \ \text{sewing mathine attachment in which a slotted dog, having a pointed projection with inclined sides is combined with a pin i and with a need lie carrying plate having an arm or lever for acting on and being action by the dog; 2nd. The combination in a sewing machine attachment, of a on by the dog; 2nd. The combination, in a sewing machine attachment, of a needle carrying plate having an arm or lever, a rev-risible dog, a spring for acting on said dog and device for operating the same. 3rd. The combination of the needle bar B and its block D, having the sliding plate a 1 arm or lever F, wit: the plate J carrying the slotted dog e, 4th. In the cembination of the needle bar B, the carrying plate a, the arm or lever F, the pin i and the slotted dog e, having a projection s, 5th. In combination of the plate J, having a recessed arm f and pin s, with the slotted dog e having a pin g. 6th. The combination of the needle bar B, the sliding plate a having lags e e, and the 'ever F having a set series e

No. 9913. Improvements on Car Axle Boxing. (Perfectionnements aux moyeux des roues de rayons.)

James S. Hodgue, Simcoe, John K. McLennan, Charles H. Killmaster, Charles F. Sanden Samuel Sinden, Joseph P. Geaves, Walsingham, and Samuel Wright, London, (Assignees of Lev) H. Montross Simcoe,) Ont., 1st May, 1879, for 5 years

boxing or keeper Er Et, with the axle A, single bearing wheel Br set to apside of, or obliquely to the axle and shoulder wheel Br. 2nd The casing I provided with the reservoirs F G and ducts f(g) in combination with the friction wheels Br Br and shafes C Cr.

No. 9914. Improvements on Spoke and Felloe Joints. (Perfectionnements aux joints des ... ct des jantes.)

Charles E Kennedy, Hattey, Que., 1st May, 1879, for 5 years.

Claim—1st. The combination of the socket B, having the plates by which it is secured to the fellow C, and which serve to increase its bearing surface with the convex ears a and rivet b. 2nd. A socket B having a large bearing surface, and secured by bolts to the fellow C. 3rd. In a carriage wheel the socket B baving ears a diveted to the copposite sides of the fellow C, and serving as a bearing for the nuts and bolts, to bind it and the tire securely to the

No. 9915. Process for Preserving Meat.

(Procédé de conservation de la viande.)

Arthur A. Libby, Chicago, III., U. S., 1st May, 1879, for 5 years

Claim.—The process of preserving naw ment in ordinary hermetically sealed cans or boxes, which consists it conting the said meat with a so utus of bi-sulphite of lime, salleylic acid, or any equivalent substance or some adhesive gammy substance, or both, coating the interior of the caus or coxes also with the adhesive or gummy substance, then preferably placing the coated meat in caus or boxes without contact with the interior of the same. and then placing the can or box and contents where they will not be disturbed until the germs of fermentation are deposited.

No. 9916. Process for Preserving Meat.

(Procédé de conservation de la viande.)

Arthur A. Libby, Chicago, Ill., U. S., 1st May, 1879, for 5 years.

Claim. - The process of preserving raw meat and retaining the juices of the same, which consists in treating the exterior surface of the meal place. ing it in a can or box preferably without connect with the interior thereof closing the said can or box with the exception of the intet and the outer by sir, forcing through said can or box a current of culcined air, and thes hermetically sealing the can or box.

No. 9917. Process for Preserving Meat.

(Procédé de conservation de la viunde.)

Arthur A. Libby, Chicago, Ill., U. S., 1st May, 1879, for 5 years.

Arthur & Laiby, Unicago, III., C. S., 181 May, 1042, 107 5 years.

Claim.—The process of preserving raw meat from decomposition or putrefaction, which consists in cooling the meat in order to eliminate the animal heat, cutting it into pieces of the proper size, brushing it or bathing it in a solution of bi sulphite of time or salicylle acid, drying the solution upor the meat, placing the meat in a vessel coated on the interior, and containing an inlet and outlet aperture, but being otherwise hermetically scaled, submitting the meat to a current of cool air previously calcined, and then close into the two apertures of the can be vessel. ing the two apertures of the can or vessel.

No. 9918. Improvements on Hay Rakes.

(Perfectionnements aux râteaux a foin)

Henry A. Connell and Alexander Dunba., Woodstock, N. B., ist May, 1879, 5 CHRTS.

Claim. - ist. The socket S and the connecting thereby of the bent lever F in the axie stock M., 2nd. The attaching of the draught bar E, with the best lever F; 3rd. The foot catch B.

No. 9919. Improvements on Plough Coulters.

(Perfectionnements aux contres des charrues.)

John Clayton, Brainerd, Minn., U. S., 1st May, 1879, for 5 years

Claim.—The combination of the axle B made with a flaring journal or bearing surface, the flanged washer or cap C, the hub E made with a tapering cavity or bearing surface, the clamping plate H, the set acrew L, the nuts J D with each other, and the rotary coulter F for connecting the said coulter with its hanger.

No. 9920. Improvements on Mail Bags.

(Perfectionnements aux values à lettres.)

Jesse G. Thompson, Clarion, Pa., U. S., 1st May, 1879, for 5 years

Claim.—The pouch A, surrounded with the stiff flange B, provided a openings a, in combination with cover C, having flange D, fastening hooks! and strap S

No. 9921. Imprevements on Window Frames.

(Perfectionnements aux châisis des fenêtres :

Richard Kelly, Ploton, Ont., 1st May, 1879, for 5 years.

Claim -The grooves A A.

No. 9922. Improvements in Telephones.

(P. rfectionnements aux téléphones.)

Thomas A. Edison, Menlo Park, N. J., U. S., 1st May, 1879, for 5 years

Craim—1st The combination with a resonant case or support of the carbon, or similar material the lever c, disk k, and circuit connections 2nd. The combination of two moving plates or disphrains p k, with flucty divided carbon, or similar material intervening, and the circuit connections passing through the same, 4rd. The combination, with a resonant case, of two disphragms, or plates p k, upon which sound or other vibrations operate, and a circuit regulator of flucty divided carbon, or other material placed between such plates k p and the circuit connections; 4th. The combination, with an electro-magnet in one circuit of an armature, and finely divided conducting naterial in another circuit, whereby the variable magnetic attractions are naterial in another circuit, whereby the variable magnetic attractions are Claim -1st. The combination of the box or casing H. provided with a balf translated into electric waves, 5th. The receiver R, provided with the