D: D2 adapted for operation in connection with the burners B A and a suitable motive power. 11th. The combination of a clock with mechanism for winding the same by the motion of a gas motor actuated by the flow of gas to a burner or burners. 12th The clock dial N, clock hands M; M2 and actuating spring 12, in combination with means 114 I for winding the same by the motion of gas, a provision for slipping to avoid over winding, one or more gas burners C, a provision as for allowing a continuous small flow of gas, and a shield D for protecting the flame when reduced; 13th. A motor actuated by the motion of gas, a clock wound up thereby means for contracting the volume of the flame at a certain period of time for enlarging at another period of time, both determined by the clock, and means for adjusting one or both periods at wil; 14th. In combination with a clock actuated by the motion of gas and serving to enlarge and contract the flame at adjustable periods, the dial N, ordinary clock hands Mi M2, adjusting handles V W and pinching and X, the latter being adapted to hold the adjustable parts rigidly, 15th. A clock mechanism, with suitable impelling means and connections for lighting and extinguishing the main flame in combination with a small continuous flame adapted to impart heat and avoid an extreme low temperature under any conditions. D: D: adapted for operation in connection with the burners B A and a suit an extreme low temperature under any conditions.

No. 9563. Improvement on Farm Gates. (Perfectionnement aux barrières.)

William A Carpenter and Billow Walratu, Townsend, Ont., 21st January, 1879, for 5 years.

Claim - The combination of the pivot post c supporting the horizontal bar F, with weighted end G attached to it, and supporting the upright E attached to gate frame E, which is fastened by the sliding bar I worked with handle H.

No. 9564. Improvements on Belt Fasteners. (Perfectionnements aux joints des courrous.)

Wilnam W. Glover, Aurora, Ill., U.S., 21st January, 1879, for 5 years.

t laim.—1st. A bed or plate provided with straight teeth C made oblong in cross section, disposed with the longer part of their bases in the direction of his of pull of the belt and having linear entering ends or tips. 2nd The bed or plate provided with the straight teeth C made oblong in cross section, the longer part of their bases being in the direction or pull of the belt and basing sharp entering ends or tips, and provided also with the central train sverse bar or projections.

No. 9565. Process of Refining and Packing Catechu. (Procede pour raffiner et envelopper le cachou.)

Edward Wells, Albert E. Richardson, William J. Van Patten and Henry Wells, Burlington, Vt., U.S., 21st January, 1879, for 5 years.

Claim .- 1st Placing the catecha in a vessel containing a sufficient quanthe mixture of the subjecting it to the action of steam heat, at the same functional distribution of the mass steam of a high temperatur, thereby liquifying the cateer it and forcing the lighter substances to the surface, then skinning straining and setting and finally placing the cateful, while still liquid, in boxes holding certain specified quantities, 2nd. Refined and concentrated catechi incased in a fight integrament or envelope.

No. 9566. Improvements on Horse Blankets. (Perfectionnements aux convertures de cheval.)

Israel H. Hodgson and William Beatty, Gray, Me., U.S., 21st January, 1879, for 5 years.

A blanket having a cord firmly attached entirely around it near its edges, and formed into loops, which project through suitably faced holes in the corners thereof.

No. 9567. Improvement on Plough Attachment. (Perfectionnement aux trains des charrues.)

John McBride, Des Moines, Iowa, U. S., 21st January, 1879, for 5 years.

Claim -1st. In combination with a plough beam A and a hinged axle C. Claim—1st. In combination with a plough beam A and a hinged axle C, the lever B baving the combined rack and fender y, and tever B2 provided with the spring latch z; 2nd. The adjustable extensible and jointed fulcrum t adapted to support the lever B2 and to clamp the coulter w z to the plough beam, 3rd. The vertical lever B having the combined area and fender y and the gravitating latch h, the hinged axle C carrying the wheel D and rack g, the jointed fulcrum t clamping the coulter w z, the horizontal lever B2 having a spring k, ch at its rear end and carrying a caster wheel at its front end, the hinged and adjustable brace m; 4th. The revolving block s2, having tunnions at its sides and an opening through its centre, in combination with a plough beam and the shaft z of an adjustable and revolving caster wheel bearer to turns flexible connection between the exters to turns flexible connection between the exters to turns the decrease. a prough beam and the state 3 of an adjustable and revolving caster wheel and the govern bearer to form a flexible connection between the easter wheel and the governing lever B2, 5th. The curved bearer 5 carrying the anti-friction roller a, in combination with a plough beam A and vertical lever B. 6th. The combination with a plough beam A and vertical lever B, 6th. The combination of the bearer b carrying a wheel or roller a, the provided brace c inving a book or fastening device at its free end, and a plough standard. 7th The combination of the gravitating scraper d, bearer b and roller a.

No. 9568. Improvements on Pressing Machines. (Perfectionnements aux machines à piesser.)

Joshua W. Jones, Harrisburgh, Pa., U. S., 22nd January, 1879, for 5 years.

Claim.—'st. A press proper for compressing laminated material, as paper into packages, at a high degree of compactness and solidity by a hydraulic lower pressing machine, in combination with an automatic electric pressure indicator to secure the parts under strain against breaks. 2nd The hydraulic indicator to secure the parts under strain against oreass, 200 ane nyu-anno cylinder head J, provided with the annuar seat manbout ram B to readily issert packing U2, in combination with the foot H of the press frame. 3rd The follower C, in combination with the guides H: H2 W3 in trough B: 4th. The end board C3 provided with central countersink or recess C2. 5th End be cell board of provided with central countersink or recess C2. 5th End boards for bundles of sheets ted under pressure, provided with rounded outer edges and with or without steet metal chips, 6th. The peculiar combination and strangedment of two reciprocating force pumps QQ1, alternately drawing liquid from a common reservoir R2, connectedly arranged with the ram chamber O by a main A4 into which the pumps discharge alternately to secure the continuous travel of the ram B, 7th. In a pressing machine and sheet lie, the compressing heads D2 constructed with cross way D2 centrally

arranged through them 8th. The inclined press bed or trough. Br provided arranged through them 8th The inclined press bed or trough Br provided with longitudinal slots B4 in its sides, in combination with the press heads Dr having through them the cross ways Dr correspondingly arranged with said slots, 9th. The press head Dr connected by pedestals Dr with the follower C and made to travel as a pringer, in combination with bed Br. 10th. In combination with the press bet Br the device of a set of removable ledges Hr Hr Wr or a set of adjustable guide rods D5. 11th. The process described for treating folded printed sheets of paper in dry pressing, the same consisting of subjecting a collection of such sheets to pressure without the use of furber or press boards, and white under such pressure, treing them into compact bundles with end boards, then removing them immediately from the press and allowing them to remain ted sufficiently long to complete dry pressing and attain the desired such such sufficiently long to complete dry pressing and attain the desired such sufficiently long to complete dry pressing and attain the desired sufficiently long to complete dry pressing and attain the desped state of surface.

No. 9569. Improvements on Spring Carriages. (Perfectionnements aux initures a ressorts.)

Charles W. Schultz, Shedden, Oat., 22nd January, 1879, for 5 years

Plaim -1st. The mode of interposing side springs B having curved ends b by securing their terminations to the exter or to the axis and head block, for uperposing the body A of the bars H.H., 2nd. The mode of interposing end springs B having curved ends by he securing their terminations to bars H, or their equivalent on which the buggy body A is superposed and contrally to the axle or head block.

No. 3570. Improvements on Buckle Clasps. (Perfectionnements aux agrafes des boucles.)

Mary A. C. Holmes, Boston, (Assignee of Francis D. Ballen, Marlboro,) Mass. U.S., 22nd January, 1879, for 5 years

Mass, U.S., 22nd January, 1879 for 5 years.

Claim—1st. The combination of a plane provided with slots and ridge as formed by E, with a hinged leaf whose edges enter into the slots, and the means of fastening the same in place. 2nd. The combination of a plate provided with a slot or slots, a strap or straps instened to the same trough the slot or slots, a langed leaf and means for fastening the same. 3rd. The combination of a plate lawing a ridge angular in cross section, a langed leaf corresponding thereto in shape and income for fastening the same in place, 4th. A timele clasp composed of a plate having a right leaf to shut over the same, a sliding each provided with a spring end for nothing the leaf.

No. QC7.1. Evaluation approach of a Plate for nothing the leaf.

No. 9571. Improvements on Belt Gearing. (Perfectionnements a la communication du mouvement par courroce.)

John T. Hawkins, Brooklyn, James H. Covel and Gibbons L. Kelty, New York N Y, U S, 22nd January 1879 for 5 years

Claim -1st The art of trans rating power, for operating driving shafts Flaim —1st The art of translatting power, for operating driving shalls of machines or lines of machiners, by means of touthed pulleys upon said shaft connected by an endless gearing of teeth or edge secured by rivels, bod's or equivalent fustenings, to a belt of one or more contactions strips of material without blaged 1 ints, preferably, metal sufficiently thin or fen pered to conform to the convex of soil pulleys with all permanent set, 2nd, A system of endless gearing a pulley or policys having upon the face or faces thereof non-rolling, non-stading and frictionless teeth or cogs of the involute from described greating in the relative below contensionly first. involute form described gearing with or interlocking corresponding teeth upon an enwrapping belt

No. 9572. Improvements in Threshing Machines. (Persectionnements aux machines à buttre.)

Thomas Quadivan, Coglail's Creek, Victoria, Australia, 22ad January,

1879, 1979, 1975 years.

Claim—1st The addition to threshing machines of a carrier A for convexing the sheaves from the stack to the machine; 2nd. The combination and arrangement of the endless traveling platform E with the endless rake F and slotted shield G.

No. 9573. Improvements on Floating Docks. (Perfectionnements aux bassins de rudoub.)

Josiah L. Clark and John Standfield, Westminster, England, 22nd January, 1879, for 5 years.

Claim .- 1st Constructing a floating dock with the buoyant sides or por tions of ue sides AA attached to the body C of the dock by vertical grooves or slides, or by hinges so that these portions can be raised or lowered inde-pendently, 2nd Constructing a fluinting dock with a body C, fixed buoyant portions of sides B and sliding or hinged buoyant portions A.

No. 9574. Moulds for Casting Cast Steel. (Moules pour couler l'acur)

Aaron J. Nellis, Pittrburgh, Pa., U.S., 22nd January, 1879, for 5 years.

Claim.-Ist A mould composed of metalic sections and intermediate separate and detachable sections formed of core material. 2nd. A mould composed of metallic sections and internediate separate and detachable sections formed of core material, with suitable means for at once connecting the metallic and supporting the core sections.

No. 9575. Moulds for Casting Cast Steel. (Moules pour couler lacter.)

Aar in J. Nellis, Pittsburgh, Pa. U. S., 2 and January, 1879, for 5 years.

Claim -Sand moulds cores and matrices for casting metal composed of sand with or without binding or adhesive n aterials, and of beazine, or its equivalent, highly combustible and readily ignitible liquid.

No. 9576. Improvements in Canal Boats. (Perfectionnements aux bateaux pour les canaux.)

William Hewitt, Hamilton, Ont., 22nd January (274, for 5 years

Claim -1st. In combination with a track B, of an elevated race isil K constructed thereon and with morable segments, proside crossings with a bridges, &c., 2nd. In combination with the rack of the elevated rail K of the cog whiel J meshing into the same for steadying the engine, 3nd. In combination with the main D of the elastic clutch I, notch c and lever Q. 4th I combination with the elevated rail, of the grooved pulley T for running on the bevelled top of the rack; 5th. In combination with the shaft D, of the cog wheels H & J, 6th. In combination with the main shaft D, of the journal