

No. 24,680. Gas Regulator. (*Régulateur à Gaz.*)

Henry F. Bromhead, London, Eng. 9th August, 1886. 5 years.

Claim.—1st. In a gas regulator, a vessel such as A, whose area increases with the distances from the inlet, substantially as specified. 2nd. In a gas regulator, a valve chamber, such as D, of greater area than the inlet, substantially as specified. 3rd. In a gas regulator, a diaphragm, such as M, dividing the interior into two chambers, whereof the area of that chamber which is farther from the inlet is the greater, the intercommunicating passage M being governed by a valve O, substantially as specified. 4th. In a gas regulator, the combination, with the valve spindle G, of a tube P passing through the cover A and surrounding the threaded portion of said spindle, substantially as specified. 5th. In a gas regulator, the combination, with a conical vessel, such as described, of two partitions, such as F, M, dividing the vessel into separate chambers and having central openings P, M, and two valves E, O, carried upon the same spindle and adapted to operate simultaneously, substantially as specified. 6th. The complete gas regulator, substantially as specified and shown in the accompanying drawings. 7th. In a gas regulator, the combination, with a spindle G, of two valves, such as E, O, so placed upon said spindle that, when one valve is closed upon its seat, the other remains partially open, substantially as specified.

No. 24,681 Potato Digger. (*Arrache-Patates.*)

William D. Robinson, Kanona, N. Y., U. S., 9th August, 1886; 5 years.

Claim.—1st. The combination, substantially as set forth, of the main frame, the wheels, the bent axle provided with bearings located to one side of the general plane of the bent axle, spring-adjusting devices connected directly with the axle, and an adjustable connection between said spring devices and the main frame. 2nd. The combination, substantially as set forth, of the main frame, the digging devices, the bent axle, its bearings in the frame, the spring or springs connected with the axle and formed with the upwardly projecting arms P, the adjusting chain, and means for securing the chain in any adjusted position. 3rd. The combination of the main frame, the digging devices carried thereby, the bent axle, the wheels, the journal of the bent axle located above or to one side of the plane of the axle, the bearings in the frame located in advance of the wheels and digging devices, as shown, and the adjustable spring connection between the axle and the main frame. 4th. The combination, substantially as set forth, of the main frame, the shovel, the wheels, the bent axle journaled in the main frame to one side of a vertical line drawn through the axis of the wheels, and an elastic connection between the axle and the main frame. 5th. The combination, substantially as set forth, of the main frame, the wheels, the bent axle journaled in the main frame, the springs secured to the axle and an adjustable connection between the springs and the main frame. 6th. The combination, substantially as set forth, of the main frame, the wheels, the bent axle journaled in the main frame, the springs secured to the axle, the spring lever arms, and an adjustable connection between the lever arms and the main frame. 7th. The herein-described casting, having downwardly projecting lugs to form bearings for the axle, and the inclined handle-supporting arms. 8th. The combination, substantially as set forth, of the main frame, the axle, the handles, and the crating having downwardly projecting lugs in which the axle is journaled, and the upwardly inclined arms to which the handles are secured. 9th. The combination, substantially as set forth, of the digging blade or shovel and the drag-chains hinged thereto, each chain consisting of a link hinged to the shovel, a second link hinged between lugs in the preceding link, and succeeding links hinged in like manner to their preceding links, for the purpose specified.

No. 24,682 Potato Digger. (*Arrache-Patates.*)

William D. Robinson, Kanona, N. Y., U. S., 9th August, 1886; 5 years.

Claim.—1st. In combination with the digger, an arch or yoke over the digger wheels pivoted to the inner side of the feet of the arch or yoke and riddles on said wheels. 2nd. In combination with the digger and an arch over the digger, combined carrying and riddling wheels pivoted on the inner side of the feet of the arch and having spokes inclined from the hub towards the digger. 3rd. In a potato digger, the combination, with the frame, of an axle turning in bearings of the frame and having cranked ends, a spring connected with the axle, serving as a cushion and as a gauge to adjust the height of the opening point, and wheels attached to the cranked ends of the axle and on the inner sides thereof, as shown and described and for the purpose specified. 4th. In a potato digger, the combination, with the frame, of a cranked axle resting in bearings of the frame and made in parts, provided with a slip joint, whereby it may be lengthened and shortened, and supporting wheels made open and spoked to form sifters attached to the cranked ends and resting inside the cranks, as shown and described and for the purpose specified.

No. 24,683. Compass. (*Compas.*)

Carl W. Stuart, New York, N. Y., U. S., 9th August, 1886; 5 years.

Claim.—1st. A compass-attachment for pencils or similar marking implements, consisting of a holder adapted to be attached to such marking implement, and an arm hinged to the said holder, and provided with a needle or center-point, for the purpose substantially as set forth. 2nd. The combination, in a compass-attachment for pencils or similar marking implements, of the tube or sleeve adapted to be fitted upon the pencil, the hinge at its upper end and means for tightening the same, the hinged arm having a sleeve or recess adapted to receive the needle, the adjustable sliding needle inserted into the said recess, and the binding screw for holding the needle in the adjusted position, substantially as and for the purpose shown and set forth. 3rd. The combination of the slitted tube or sleeve A open at both ends, hinge F, G having tightening nut G, arm H having sleeve I, extensible needle J and means for properly securing the same in the A, substantially as and for the purpose set forth. 4th.

The combination of the slitted tube or sleeve A open at both ends, hinge F, G having tightening nut G, arm H, hinged knife-blade L, extensible needle J and means for properly securing the same in arm H, substantially as and for the purpose set forth. 5th. The hereinbefore described compass-attachment for pencils or similar marking implements, consisting of a slitted spring tube or sleeve having a suitable scale or scales marked thereon, and provided on one side with a projecting bracket having a hinged arm and a knife-blade, and a thumb-nut for fixing said arm and knife-blade in their adjusted position relative to the sleeve, said hinged arm being provided with an extensible needle, and with means for fixing said needle in position when properly adjusted, substantially as and for the purpose set forth.

No. 24,684. Disintegrating Machine. (*Machine à Désagréger.*)

Walter F. Birge, Buffalo, N. Y., U. S., 9th August, 1886. 5 years.

Claim.—1st. In a disintegrating-machine, the case I provided with inwardly-projecting stationary arms, and having the outlet opening of larger area than the inlet-opening, as and for the purposes specified, in combination with two vertical shafts 11 and 12 set in bearings in the case, and connected together by gearing 15, 16 and 17, and provided with beaters, substantially as and for the purposes described. 2nd. In a disintegrating-machine, the case or shell provided with cylindrical portions, and a tapering bottom, inwardly-projecting stationary arms, feed and discharge pipes having valves and the shaft-bearings, in combination with two vertical shafts set in said bearings, and gears for simultaneously operating said shafts, each shaft being provided with a series of beaters adapted to the cylindrical portions of the case, and a series of beaters of varying lengths adapted to sweep the material from its tapering or concave bottom towards the outlet, substantially as specified.

No. 24,685 Hoof Pad for Horses. (*Bourrelet de Sabot de Cheval.*)

Thomas P. Leonard, Detroit, Mich., U. S., 9th August, 1886. 5 years.

Claim.—1st. In combination with a horseshoe, a plate A provided with a stationary locking bar near its toe, and adjustable locking plates near the heel, substantially as and for the purposes set forth. 2nd. In combination with a horseshoe, the plate A provided with the rigid locking bar B, and the adjustable locking plates C, when constructed, arranged and operating substantially in the manner and for the purposes set forth.

No. 24,686. Apparatus for Ventilating Ships' Holds. (*Appareil pour Aérer les Cales des Navires.*)

George S. Dodman, Liverpool, Eng., 9th August, 1886; 5 years.

Claim.—In a ship ventilator, the horizontal tube B with perforations, in combination with the vertical perforated tubes C, provided with the cowls L and dampers K, substantially as and for the purpose set forth.

No. 24,687. Pedal Cover for Organs. (*Couvercle de Pédale d'Orgue.*)

James S. Foley, Chicago, Ill., U. S., 9th August, 1886; 5 years.

Claim.—1st. The combination, with an organ case A having a pedal opening a, of a cover hinged at the top of the opening, and adapted to close it, and to fold upward against the front of the case, rod-and-lever mechanism connecting the pedal-cover with the fall board, and screws interposed or connected in the said mechanism, substantially as shown and described, whereby the aforesaid rod-and-lever mechanism may be adjusted to cause the fall-board and pedal cover to open simultaneously and to close tightly in unison, as herein set forth. 2nd. The combination, with the organ-case A having a pedal opening a, of a cover hinged at the top of the opening and adapted to close it, and to fold upward against the front of the organ case, substantially as specified, of an arm D fixed to the pedal cover, a cranked rod G, H, J journaled to the case front, a rod I connecting crank H and arm D, levers L pivoted at I to the ends of the case A, rods K connecting levers L with cranks J of rod G, rods M connected at m to the levers L, and screws N connected to the rods M and threaded into the fall-board frame F, substantially as and for the purposes herein set forth. 3rd. The combination, with the organ-case A having a pedal-opening a, of a cover C consisting of two parts c₁, c₂ hinged together and at the top of opening a, and adapted to close said opening and to fold upward against each other and the front of the organ case, substantially as specified, of an arm D fixed to cover C, a cranked rod G, H, J journaled to the organ-case front, a rod I connecting crank H and arm D, levers L pivoted at I to the ends of case A, rods K connecting levers L with cranks J of rod G, rods M connected at m to the levers L, and screws N connected to rods M and threaded into the fall-board frame F, substantially as and for the purpose herein set forth.

No. 24,688. Car Mover. (*Lever de Char.*)

Clarence L. Barnhart, Flint, Mich., U. S., 10th August, 1886; 5 years.

Claim.—1st. A car-mover comprising a bar, two legs secured thereto by straps fastened to the bar and surrounding the legs and bar, a motor-lever pivoted in a slot in the bar and having a toothed segment engage a toothed rack in a guide-groove in one leg, and also having a cam-slot engaging a roller in a slot in the other leg, substantially as described. 2nd. The legs of a car-mover, each provided with the rail-gripping device consisting of a socketted casting to engage the legs, and a forked end reinforced with steel plates to engage the rails, substantially as described.

No. 24,689. Wheel. (*Roue.*)

Edward M. Ball, Casticook, Que., 10th August, 1886; 5 years.

Claim.—1st. A wheel having two hub sections connected by spokes