

RETURN OF COMMISSIONER WELLS.

Hon. David A. Wells, U. S. Commissioner of Revenues, who sailed for Europe last May on business connected with the Revenue Department, returned on the 16th Sept. in the City of London.

Mr. Wells was cordially received by the large manufacturers in England and on the Continent, and has returned with valuable information pertaining to foreign manufacturers and industries, which will be laid before Congress at its next session.

It is seldom that Congress exhibits as much wisdom in selecting officers for special service as it did in choosing Mr. Wells for his commission. Mr. Wells is not a politician, but an intelligent, practical, industrious gentleman, educated to scientific pursuits, author of several standard school and other books, and as a statistician, has few equals, as his last report to Congress, through the Secretary of the Treasury evinces. His next report will be looked for with greater interest than his first, containing, as it probably will, many practical suggestions as to changes in the tariff.

Amusing Typographical Blunders.

The Evening Gazette of this city, one of the best edited papers published in the country, and for correctness of its statements and typographical neatness excels most of its older cotemporaries, thus apologizes for one of its compositor's amusing blunders:

"A 'bewildered reader' wants to know what Sala means by saying that the French call the English 'a nation of grasshoppers.' To tell the truth, our compositor did Sala a great injustice. We wrote—what everybody is familiar with—'a nation of shop-keepers;' but the printer preferred the word grasshoppers and the proof-reader agreed with him. In fact, the misprint in question was one of the most amusing in the history of typographical errors."

Justifying Type by Machinery.

Mr. Charles W. Felt, of Salem, Mass., has been engaged for several years upon a composing machine that shall not only compose and distribute type, but also justify the matter. He has recently exhibited, in this city, a little justifying machine about fourteen inches long, which can be adapted to any of the other type-composing machines quite as well as Mr. Felt's. He purposes to commence manufacturing these justifying machines and attaching them to such composing machines as are in use, and at some future time will introduce his own composing machine for competition with the others.

THE MECHANICS' FAIR at Lowell, Mass., began on Tuesday, and will continue one month probably. There are one thousand three hundred exhibitors, and the articles on view are very numerous. The halls thrown open cover nearly an acre of ground.

OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office,

FOR THE WEEK ENDING SEPTEMBER 17, 1867.

Reported Officially for the Scientific American

PATENTS ARE GRANTED FOR SEVENTEEN YEARS the following being a schedule of fees—

Table with 2 columns: Fee description and Amount. Includes items like 'On filing each caveat', 'On filing each application for a Patent, except for a design', 'On issuing each original Patent', etc.

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

68,820.—PORTABLE HORSE-POWER.—Hiram Aldridge, Goshen, Ind.

1st, I claim the movable bounds or braces, O P, applied to the front and rear ends of a portable horse-power in such manner as to secure these ends down to the ground upon their wheels, substantially as described. 2d, The combination of diagonal braces or ties, R R, with the inclined braces, O F, and a portable horse-power which is mounted upon four wheels, substantially as described. 3d, Locking devices applied to the transporting wheels of a four-wheel horse-power, substantially as and for the purposes described. 4th, Locking devices applied to the front axle of a four-wheel portable horse-power, substantially as described. 5th, The construction of the cast-iron ring, E, for the purposes and substantially as described. 6th, The arrangement of the coupling shaft, J, or its equivalent, so as to admit of the attachment of tumbling shafts to both ends of it, substantially as described. 7th, The auxiliary removable, supporting frame, S, applied to the portable horse-power frame, substantially in the manner and for the purpose described. 8th, Combining sweep or lever horse-powers with a permanent four-wheel carriage for transporting the same and which is arranged with means that will admit of the locking of its wheels and the securing of the machine down upon the ground upon its wheels for operation, substantially as described. 9th, The permanent bound or braces, O P, applied to the front axle of a portable horse-power in such manner as to prevent said axle from moving right or left on its wheels when said power is operated, substantially as described. 10th, The diagonal braces or ties, R R, applied to a portable horse-power which is mounted upon and adapted for being operated upon four wheels, substantially as described.

68,830.—LIQUID METERS.—Richard H. Atwell, Baltimore, Md.

1st, I claim the valve, K, constructed and operating in combination with the wheels, D, substantially as described for the purpose set forth. 2d, The helix, H, in combination with the shaft, C, water wheels, D, and registering device, substantially as and for the purpose specified. 3d, The arrangement of the rims or partitions, a, water wheels, D, and valve, K, substantially as described.

68,831.—REEL.—F. A. Balch, Hingham, Wis.

1st, I claim the parallel bars, C D, to connect the head, B, and winding blade, E, of a reel, substantially as and for the purpose set forth. 2d, The head, B, extension, E, connected by the parallel bars, C and D, substantially as set forth in combination with the sliding head, F, and connecting rods, G, for the purpose of retaining the winding blades more or less distended, as described.

68,832.—MACHINE FOR DRESSING WEAVERS' HARNESSES.—A. E. Bigelow, Lawrence, Mass., assignor to John and J. H. Kendrick, Providence, R. I.

1st, I claim the combination of an endless tenter-hook belt, C C', with the revolving brushes, F F, substantially as described for the purposes specified. 2d, The combination in one machine of the endless tenter-hook belts, C C', or equivalent means for supporting and conveying the harnesses an apparatus for sizing and an apparatus for varnishing a weaver's harness, substantially as described for the purposes specified.

3d, The reciprocating brushes, k k', when arranged to act upon the harness, in the manner and by the means substantially as described.

4th, The combination of the endless tenter-hook belts with the reciprocating brushes, k k', substantially as described.

68,833.—CANAL LOCK.—Martin Bishop, Putnam, Ohio.

1st, I claim the construction of the gate operating on its shaft, L, with its arms, M, fitting between the division, N, and having bracing, P, and resting on the bottom of the canal in the correspondingly shaped chamber, R, as herein described and for the purpose set forth.

2d, I also claim the chamber, R, constructed as described with subdivisions, N N, located beneath the bottom of the canal, as herein described and for the purpose set forth.

3d, I also claim, in combination with such chamber and gate, the adjustable wickets, operated as described and for the purpose set forth.

4th, I also claim, in combination with the gate, the movable device or apparatus, S, as herein described and for the purpose set forth.

68,834.—PRESERVING EGGS.—L. H. Boole, New York City.

1st, I claim the process of preserving eggs by desiccation and compression substantially as herein described.

2d, As an article of manufacture eggs desiccated without heat, substantially as described.

3d, An apparatus of manufacture eggs desiccated and compressed, substantially as herein described.

68,835.—SEWING MACHINE.—C. F. Bosworth, Milford, Conn.

1st, I claim the combination of the slot, L, in the one plate and the slot, H, in the other with a connecting rod, K, constructed with its two bearings, a and b, so as to operate substantially in the manner herein set forth.

2d, The arrangement of the positive take-up, Q, with its cam, S, formed relatively to the movement of the needle and in combination with the third eye, P, on the needle slide, so as to operate in the manner specified.

3d, The arrangement of the looper, m, upon the shuttle carrier in the position relative to the return tongue, l, so as to operate as described.

68,836.—LADDER.—Margaret D. Boyd, Buffalo, N. Y.

1st, I claim the employment of the sockets, B, for the reception of the ends of sections when arranged that the bolt which fastens them and the sections together acts at the same time as a step or round for the ladder.

68,837.—LIFTING JACK.—A. C. Brincer, Middletown, Pa.

1st, I claim the square reversible link, H, with its rope, J, when arranged and combined with the movable lever, E, and post, B, with its stationary pins or riveted bolts, C, as herein described and for the purposes set forth.

68,838.—TELEGRAPH APPARATUS.—J. M. Brown, Auburn, N. Y.

1st, I claim the combination and arrangement of the electro magnets, B B, excited by the current of the main line with the electromagnets, A A, excited by a local current traversing the armature lever, D, contact point, E, and pillar, I, as and for the purpose set forth.

68,839.—SEWING MACHINE.—Lewis Budd Bruen (assignor to the Bruen Manufacturing Company), New York City.

1st, I claim the combination of eye-pointed needle, b, thread carrier, M, cam, C, feed bar, H, and rotating hook, L, operating together to form seams, as described.

2d, The combination of eye-pointed needle, b, thread carrier, M, cam, C, feed bar, H, rotating hook, L, and bobbin, Y, operating together to form seams, as described.

3d, Cam, C, pin, S, and thread carrier, M, acting in combination, substantially as and for the purposes explained.

4th, The combination of needle, b, thread carrier, M, acting in combination, substantially as and for the purposes explained.

5th, Spool guard, O, removable or permanent and with or without spool holder, P, and tension, N.

68,840.—PROCESS OF PRODUCING GAS FOR FUEL.—John H. Burgin (assignor to himself, George H. Burgin, Jr., Charles F. Burgin and William M. Burgin), Philadelphia, Pa.

1st, I claim introducing steam into gas-producing ovens in quantity sufficient to prevent the rapid combustion of the fuel although the fuel is exposed to the atmosphere, the air being maintained the larger, to wit: the upper portion of the fuel at a dull cherry-red heat while the lower portion is kept in a state of incandescence, in the manner and for the purpose substantially as set forth.

2d, Introducing steam into gas-producing ovens above the grate bars or bottom thereof directly into the body of incandescent fuel in fine jets or in a continuous stream in several such sheets in quantity aforesaid and for the purpose aforesaid.

3d, Introducing steam into said ovens below the grate bars or bottom thereof through the body of incandescent fuel in the quantity and for the purpose aforesaid.

4th, Introducing steam into gas-producing ovens above the grate bars or bottom thereof directly into the body of incandescent fuel in quantity aforesaid in combination with an artificial blast of air below the body of fuel.

5th, I claim the employment of anthracite coal as a fuel in gas-producing ovens in combination with an artificial blast of air and with steam, the air and steam being admitted in quantity sufficient to maintain the lower portion of the fuel in a state of incandescence and the upper and larger portion of the fuel at or about a dull cherry-red heat, substantially as set forth.

6th, The pipe, H, constructed and arranged substantially as described for introducing steam into the oven.

7th, The pipe, H, constructed and arranged substantially as described in combination with the aperture, E, and pipe, F, or other device for producing an artificial blast of air, substantially as shown and described.

8th, The pipe, F, or other device for producing an artificial blast in combination with the pipe, H, and valve, K, in the exit flue of a gas-producing oven, substantially as shown and described.

68,841.—CORN PLANTER.—Robert and Joseph L. Cassady, Hardingsville, N. J.

1st, I claim the boxes, F F, hoppers, K K, bars, G G, cross piece, H, and arm, I, in combination with the ratchet wheel, d, and the levers, J K, or their equivalents, the whole being constructed and operating substantially as and for the purposes specified.

2d, The frame, S, with its arms, t and plates, w, hung to the frame, A, substantially as specified.

3d, The adjustable bars, P P, and their plates, f, in combination with the shaft, R, and its pinions, l, or their equivalents, the whole being arranged on the frame, substantially as and for the purpose set forth.

68,842.—TRUSS.—Robert H. Champlin, Colchester, Conn.

1st, I claim the herein-described truss consisting of the band, A, straps, C C and E, and pad, D, all constructed and arranged as specified.

68,843.—SHIFTING RAIL FOR CARRIAGE TOPS.—Patrick G. Clancy, Augusta, Me.

1st, I claim the arms, b b', having the gain, C, decreasing in width from its outer to its inner side, and having the short shoulder, x, and the rounded or beveled corner, s, substantially as and for the purposes specified.

2d, The wedge-shaped socket plates, a a', substantially as and for the purpose specified.

3d, The combination of the bent arms, b b', with the notched arms, b b', substantially as and for the purpose specified.

68,844.—THRILL COUPLING.—L. C. Clark, Davenport, Iowa.

1st, I claim the thrill iron, B, constructed as described, in combination with the clip, A, having the packing, a, arranged between the ears, A'', on the plate, A', all arranged as and for the purpose set forth.

68,845.—SNOW PLOW FOR RAILROADS.—Henry H. Clemons, Oshkosh, Wis.

1st, I claim a snow plow for railroads, composed of an inclined platform, A, a plow, B, and the cutters, C, constructed, arranged, and operating, substantially as herein set forth and described.

68,846.—HARNESSE BUCKLE.—W. H. Cocks, Richmond, Ind.

1st, I claim the loop or slide, C, spring, E, and one or both of the pins, d and e, in combination with the strap, A and B, all arranged and operated substantially as set forth, and for the purpose described.

68,847.—WATER ELEVATOR.—Pearce K. Curll, Elkridge Landing, Md.

1st, I claim a water elevator, consisting of a series of buckets, E, having journals attached as described, and connected by the detachable links, L, with the flanged rollers, n, applied to the journals, the whole mounted in a suitable frame, having tracks, A and B, for guiding and supporting the series of buckets, all constructed and arranged to operate substantially as described.

68,848.—CULTIVATOR.—Elliott Davies, Jr., Carthage, Ill.

1st, I claim the lever, S, in combination with the sliding cross head, M, mounted on side pieces, G, and bearing pins, O, connected by stay rods, P, to main axle, A, and bearing the two inside plows, R R', all substantially as specified.

2d, The stationary back plows, F F, connected to the cross piece, D, in combination with the side pieces, C C', the sliding cross head, M, with its plows, R R', the wheels, B B', seat, N, and the tongue, H, hinged to ends of pieces, C C', all substantially as specified.

68,849.—STEAM GAGE.—George M. Davis, Chicago, Ill.

1st, I claim the diaphragm, A, arranged to support the devices, D B C H, and having rims, F, for clamping plate, N, to projection, M M, on back, K, substantially as and for the purposes set forth.

68,850.—MODE OF PRESERVING MEATS.—E. de la Granja (assignor to himself and Herman Sussman), Boston, Mass.

1st, I claim the process of preserving meats, by applying the injection or saturating mixture above described, in combination with the impermeable covering, substantially as and for the purpose set forth.

68,851.—WASHING MACHINE.—A. Denison, Stillwater, N. Y.

1st, I claim the revolving box, B, constructed of wooden bars or slabs, h, and end pieces, D, in the form of a polygonal prism, with a hinged section extending its entire length, and having journals attached to it as described, in combination with the journals, E E', journal boxes, F F', and balls, l, open to air, A, when arranged to operate in the manner and for the purpose specified.

68,852.—PUMP PISTON.—Wm. E. Derrick (assignor to himself and Aaron Peck), Jordan, N. Y.

1st, I claim the pump piston, having two sets of induction and ejection ports, E and F, and a valve, G, with two flat wings, connected together by a shank which is held in position by the solid pivot, a, upon the lower half, D, of the piston head, all the parts being constructed and arranged in the manner shown and described, and for the purposes set forth.

68,853.—STEAM ENGINE.—E. N. Dickinson, N. Y. City.

1st, I claim the combination of the two lifters, on the same lifting rod, one being fixed to it, and the other sliding upon it, for the purpose of effecting the reduction of the initial motion of opening steam valves, substantially as described.

2d, I claim the combination of the lever for opening the steam valve gradually, with the fixed and movable lifters, the one being moved by the motion of the lifting rod, and the other supporting a separate disengaging apparatus, substantially as described.

3d, I claim a lever, one end of which is raised by the fixed lifter or the lifters, and by which the steam valve is pried open gradually, so arranged that it can be adjusted to vary the speed of lifting, without changing the position of the point on the lifter, relatively to the valve stem, to watch the lifting power is applied, substantially as described.

4th, I claim the vibrating tripper, centered upon the lifter itself, which opens the valve, so as to disengage it from a tripper which is centered, or some other part of the machine, substantially as described.

5th, I claim the vibrating die for engaging and disengaging the valve stem to effect a cut-off, so arranged that it will vibrate in an arc whose concave side is presented to the valve stem, substantially as described.

6th, I claim the collar which surrounds the valve stem, having one or more radial ribs upon it, for the purpose of cooperating with a movable die to effect a cut-off, substantially as described.

7th, I claim a "dash pot," whose plunger is composed of two cylinders of unequal diameters, the smaller of which is the arresting plunger, forming the larger one, and whose exterior chamber is composed of a cup or secondary reservoir, to receive the arresting plunger, and above it a confining vessel to guide the larger cylinder of the plunger, and to exclude the air, substantially as described.

8th, I claim the combination in a rock shaft of one false exhaust toe, and one fixed one by which it is supported, with a stud or prop between them, so arranged that it can be dropped or elevated at pleasure, substantially as described.

68,854.—GRINDING AND POLISHING METALS.—Menno Albertus Diederichs, and Johann Henrius Diederichs, Baltimore, Md.

1st, The sliding frame, m, in combination with flanges or tracks, N N1 N2, adjustable strip, N3, set screw, N4, when constructed and operating in the manner and for the purpose set forth.

2d, The pivoted frame, J, in combination with the weighted lever, L, slotted cross piece, V, dogs, W W', curved notched arm, Z, and spring plate, c, constructed and operating as and for the purpose set forth.

3d, The adjustable stop pins, f, heads, f, and rib, M, in combination with the lever, S, and pivoted frame, J, constructed and operating as and for the purpose set forth.

4th, The lever, L, provided with hook, b, in combination with the hinged dog, W, arm, Z Z', and chain, a, constructed and operating as and for the purpose specified.

5th, The frame, O, provided with arms, O' O', in combination with the slotted adjustable bed plate, l, and bolts, l', constructed and operating as and for the purpose set forth.

6th, The combination of the adjustable racks, g g', having set screws, g2, screw shaft, l, pinion, o, pawl, n, fixed ratchet, m, upright arm, j, pivoted bed and pivoted frame, O, substantially as described, for the purpose specified.

68,855.—HAY LOADER.—Martin A. Dilly, Mendon, Mich.

1st, The arrangement and combination of the hinged tilting bars, A and B, and guide rod, l, with the hay fork, and with its lifting bar, L, automatic stop, k, and derrick frame, substantially in the manner described.

2d, Connecting the fork lines, t, to the head bar, J, by threaded bifurcated ends, e, short clamps, c, and nuts, n, substantially as set forth.

3d, The driver's seat, W, placed over the driving wheel, the axle of which carries a winding drum, N, in combination with an oscillating foot treadle, V, connected and arranged so that the driver with his foot may control the ascent and descent of the fork in the manner substantially as herein specified.

4th, The guard points, P, in combination with the fork times, t, substantially as and for the purpose herein described.

68,856.—BARREL HEAD MACHINE.—John B. Dougherty, Rochester, N. Y.

1st, I claim, 1st, an automatic barrelhead, turning machine, when the automatic movements or adjustments produced by suitable cams, P' C', and C'', and their necessary connecting rods, substantially as herein shown and described.

2d, In combination with the sliding or clamping shaft, Y, the feathered pinion, P'', spherical springs, J, collar, c'', lever, L', and cam, C', they being arranged and operating conjointly in the manner and for the purposes shown and described.

3d, The arrangement of the set screw, k, pivoted nut, n, and the lever, L, in connection with the clamping heads, M and N, substantially as shown and described, and for the purposes set forth.

68,857.—BURGLAR ALARM.—Charles A. Eaton, Minneapolis, Minn.

1st, I claim, 1st, The combination of the perforated plate, e, with the cock, C, as and for the purpose specified.

2d, The combination of cock and trigger, C D, with block holder and slide, A B F, substantially as and for the purpose described.

68,858.—THREAD POINTER.—Elijah Eaton, Hartford, Ct.

1st, I claim a thread pointer, consisting of the binged plates, A and D, the ends of which are provided with projections, B F, the faces of which are corrugated, or serrated, or provided with a file surface, substantially as and for the purpose specified.

68,859.—COTTON BALE TIE.—N. T. Edson, New Orleans, La.

1st, I claim so constructing and providing with sharp projecting points the bar, A, that it will grasp and hold the hoop, substantially as and for the purposes specified.

Also, so constructing and providing with sharp projecting points the bars, B, substantially as and for the purposes specified.

68,860.—APPARATUS FOR DISTILLING, EVAPORATING, AND REFINING OILS AND OTHER LIQUIDS.—John Ellis, New York City, and E. C. Kattell, Binghamton, N. Y.

1st, I claim the above described process for desiccating or evaporating acaccharine saline alkaline, or other aqueous solutions by the use of superheated steam, as described.

2d, The construction of a retort, or a part of a retort, of a pipe or pipes, so arranged that when either steam or superheated steam and oil, or other liquids are passed or forced through it or them in the same or in opposite directions, the fluid will naturally, from its superior gravity, repeatedly pass through the current of steam, thus thoroughly mixing it with the steam in a comparatively confined space heating it uniformly and vaporizing it, as occurs in the tubular portion of our apparatus, and as will result if a spiral pipe is placed in a horizontal position, or approaching that position, and steam and oil passed through it.

3d, The forcing or driving of petroleum, or other liquids, by the use of steam or superheated steam, applied directly to the liquid, either in a pipe or a retort upward, either vertically or at an inclination, or in any direction, upwards, in such a manner that the same oil or fluid will not return to pass through the same part of the pipe or retort again, until it leaves the retort.

4th, The constructing of a retort, or a part of a retort, either of a single pipe or of pipes, so bent or connected by return bends that portions lie parallel, or nearly so, with each other, as shown in the drawings and described in the specifications.

5th, A horizontal flat-bottomed chamber, connecting with a vertical chamber, and receiving the lower end of a pipe from a tubular retort.

6th, So constructing a retort, where either steam or superheated steam is to be used in direct contact with the oil or other fluids, that there shall be no chance for water from condensed steam to collect in the retort, owing to the escape pipe for the unvaporized portion of the oil or fluid being either on a level or lower, better lower than the lowest part of the retort, which is so far free from pressure as not to be forcibly cleared by the current of steam or vapor.

7th, The forcing of oil through a rase into a retort, into contact with a current of superheated steam.

8th, The water pipe, K, passing back and forth, in combination with a horizontal condenser, substantially as represented in the drawings.

68,861.—TANNERY.—Lewis C. England, Philadelphia, Pa.

1st, I claim banking bars, I B, with center and end lugs constructed and operating in the manner herein set forth and described.

2d, The arrangement of conveying off the weak or spent liquors from the tan vats either by a hollow beam, H B, with openings, 1' 2' 3' 4' 5' 6', placed near the top and running through the center or on the side of the vats or any other arrangement, substantially the same to accomplish the desired purpose.

3d, The trough, T, and T' applied to the S F perforated distributing tubes, D, of the E B tank No. 1, with pump tank No. 2, and connecting tube, C T, all constructed and combined in the manner and for the purpose above set forth and described.

4th, A tannery constructed and arranged in the manner herein described.

68,862.—BRICK MOLD.—John Evans, Davenport, Iowa.

1st, I claim a brick mold having sliding bottoms, A, and side bars, B, the movements of which are regulated by guides, C, and grooves, D, substantially as described.

68,863.—HYDRAULIC ENGINE.—Mahlon Everett (assignor to himself and Henry F. Cocks), Kalamazoo, Mich.

1st, I claim the valves, F and F', the valve arms, L L, and the arms, H1 H2 H3 H4 in combination with the arm rods, G G, and piston rod, M, all arranged and operated as and for the purposes herein set forth.

68,864.—TRACE BUCKLE.—Oscar Finch, Owego, N. Y.

1st, I claim a trace buckle with a curved lever pressing the trace outward against two cross bars, thereby preventing the trace from tearing or breaking, and preventing injury to the horse as set forth.

68,865.—BALANCING MILL STONES.—John Foley, Cleveland, Ohio.

1st, I claim the employment of the solid and chambered weights, c g, with their respective devices for adjusted them applied externally to the loop, F, the whole arranged and operating in the manner and for the purpose described.

68,866.—HAME FASTENER.—A. J. Foster, Lake Mills, Wis.

1st, I claim in combination with the hames, A, the metallic strap or bar, B, provided with teeth or corrugations, b b, and the link, c, arranged and operating substantially as and for the purposes specified.

68,867.—COMPOUND FOR DESTROYING INSECTS.—Samuel Galbraith, Pine Grove Plantation, La.

1st, I claim the composition above described, when compounded and used in the manner and for the purpose specified.

68,868.—WINDOW PULLERS.—O. S. Gargetton, Buffalo, N. Y.

1st, I claim dividing the box or cap, C, into equal or nearly equal parts, b by the segmental line, m, when the convex portions, b, form a part of the outer plate, G, and enclose the axle bearings, l, substantially as and for the purposes set forth.

68,869.—MALT KILNS.—Joseph Gecmen, Chicago, Ill.

1st, I claim constructing the perforated floors in separate sections, b, arranged and operating substantially in the manner and for the purposes set forth.

2d, I claim in combination with the series of floors in a malt kiln the arrangement of the space, K, provided with one or more openings, e, substantially in the manner and for the purposes described.

68,870.—TOOL HOLDER FOR TURNING LATHES.—Samuel Gisinger, Lawrenceville, Pa.