

and air, or its equivalent, and acting in the manner of a blow-pipe, substantially as herein set forth and described.

43,455.—Process of treating Maize, Barley and other Cereals for the Manufacture of Alcohol, etc.—Alois Fleischman, Olmutz, Moravia, Austria. Patented in Austria, June 14, 1862:

I claim the use of sulphurous acid gas water, in the process herein-before described, for preparing indian corn, rye, wheat, barley, and other cereals, for the manufacture of alcohol and other spirituous liquors by distillation.

43,456.—Devices for supplying Weft to the Shuttles in Looms.—Thomas Ingraham, Bradford, England:

I claim, first, The combination of the lever, D, with the weft fork, E, and the tappet, F, substantially as and for the purpose set forth.

Second, The combination of the lever, L, with the weft fork, E, and the shaft, M, substantially as and for the purpose set forth.

Third, The combination of the lever, N, with the shaft, M, and the pin, n, substantially as and for the purpose set forth.

Fourth, The combination of the lever, J, with the propeller, I, the pin, n, and the spring, K, substantially as and for the purpose set forth.

Fifth, The combination of the clamps, H, with the hopper, G, with propeller, I, and the shuttle-boxes of the lay or batten, O, substantially as and for the purpose set forth.

Sixth, The combination of the tongue, P, with the pin, n, the lever, N, and the lever, J, substantially as and for the purpose set forth.

Seventh, The combination of the lever, S, with the tumbler, R, and the shuttle-boxes of the batten, O, substantially as and for the purpose set forth.

43,557.—Mode of coating and bronzing Metals.—Fred. Weil, Paris, France. Patented in France, Dec. 11, 1863:

I claim the process herein described for metal-coating bronzing and coloring metallic articles by immersing them in an alkaline solution, containing a salt of the metal which is to form the coat, and containing tartaric acid, or any organic matter preventing the precipitation of oxide of said metal, when such solution is used with or without the introduction of zinc, and with or without the addition of cyanide of sodium, or their equivalents.

RE-ISSUES.

1,724.—Artificial Leg.—Douglas Bly, Rochester, N. Y. Patented May 17, 1859 (No. 24,002):

I claim curving or deflecting the jointed extremities of the bars, J, as to bring their axis-of-motion back on their line of direction, substantially as and for the purposes set forth.

I claim the cord, T, and spring, P, acting upon the parts, D and L, substantially in the manner and for the purpose herein set forth.

I claim the combination of the india-rubber spring, E, with a tendon or cord, in such a manner that the required effect is derived from the compression and expansion of the material and not from its elongations and contractions, substantially as set forth.

I also claim placing the spring of caoutchouc, or equivalent material, which acts from the compression of its mass, in a chamber or cavity, which has such a size or diameter in relation to that of the springs as to regulate and check the compression of the spring, at the required limit of the motion of the limb, and protect the spring from overaction.

I claim the axial bolts or transverse axis, B, C, as and for the purpose herein set forth.

I claim providing the ends of cords, F, with the enlargements and with the conical socket fastenings, G, to receive the same, substantially as described, in order to apply adjusting screws, for the purposes herein specified.

I claim the manner of constructing the bearing portions of the knee-joint, consisting of the upper and lower bearing blocks, N, N, each of which forms a segment of a cylinder more or less corresponding with the axial bolt, the one being fixed in position and the other adjustable by means of the screws, S, S, to admit of adjusting the parts together, to prevent looseness and noise, and to reduce and regulate the friction, substantially as and for the purpose herein set forth.

1,725.—Lock.—Martin Briggs, Rochester, N. Y., assignee of H. W. Covert. Patented Sept. 15th, 1857:

I claim the plane or corrugated center, h, as described, in combination with the ring or rim, g, the whole arranged in the manner and operating as herein specified.

In combination with a set of permutation wheels, H, H, I also claim the stationary washers, n, n, operating substantially in the manner and for the purpose herein specified.

In combination with a set of permutation wheels, H, H, and stationary intermediate washers, n, n, I also claim the inclosing box, I, substantially as described.

1,726.—Drawing Regulator for Spinning Machines.—E. D. & George Draper, Milford, Mass., assignees by mesne-assignments of Newell Wyllys. Patented Jan. 28, 1851:

We claim the combination of the escapement mechanism or its mechanical equivalent, with the trumpet, M, the counter-weight, W, or its equivalent and mechanism, substantially as described, for revolving the screw, e, of the belt-shipper and of the mechanisms by which the sets of drawing rollers are revolved, the said escapement mechanism being connected with the trumpet, and applied to the gear, S, and consisting of the disk, t, the pawls, a, b, the lever, y, and its operative mechanism, substantially as herein-before explained.

And we also claim as the invention of the said Wyllys, the arrangement of the trumpet-arm, E, as herein described, in connection with the system of weighted levers, the escapement, the belt-shifting mechanism, the reversed cone pulleys and the mechanism operated by them, whereby the force required to move the trumpet is made to vary under different circumstances to a sufficient extent to prevent over-sensitiveness in the mechanism which changes the relative speed of the drawing rolls to inequalities in the slivers, while, at the same time but little force is required to effect such changes, thus proportioning the draw more nearly than heretofore to the quantity of fiber in the sliver, and thereby rendering the latter of more uniform diameter and density.

1,727.—Spoon and Fork.—Florian Grosjean, New York City. Patented Jan. 28, 1862:

I claim stamping or swaging spoons or forks from pieces of sheet metal, with middle longitudinal corrugations or ridges extending along the narrow or weaker part of the handle and prolonged into the bowl thereof, as to give proper strength and finish to the junction of the handle and bowl, either leaving the flat around the corrugation or forming a bead therein, substantially as and for the purposes herein specified.

1,729.—Apparatus for cutting Button-holes.—Frederick C. Leyboldt, Philadelphia, Pa. Patented December 18, 1860:

I claim an instrument for cutting button-holes, wherein the cutter, B, is actuated by the described combination of lever, A and C, when these levers are jointed and otherwise arranged, substantially as and for the purpose set forth.

DESIGNS.

1,968.—Stove.—Garrettson, Smith and Henry Brown, Philadelphia, Pa., assignor to J. H. Haywood, D. L. Bartlett, and H. W. Robbins.

1,969.—Trade-mark.—Henry Damon, Boston, Mass. Antedated June 7, 1864.

1,970.—Doors of a Stove.—Giles F. Filley, St. Louis, Mo.

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PATENTS

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Hon. Wm. D. Bishop, late Member of Congress from Connecticut, succeeded Mr. Holt, whose administration of Patents. Upon resigning the office he wrote to us as follows:

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