

**TREATING CORN FOR PANIFICATION.**—By this process corn is prepared for bread-making without grinding, and it is asserted, that by it, all the nutritious portions of the grain are retained, and only the outer pellicle is removed. The corn is first steeped in water to remove dust and foreign matter; in this way defective grains can be removed, as they will be found floating on the surface. After steeping for half an hour, the water is to be run off, and the grain is introduced into a metal cylinder with rasp-like projections on its inner side, which remove the outer pellicle. The grain is then placed in a receptacle filled with water, at 68° Fah., about 400 lbs. of water being employed to about 200 lbs. of grain, so that there may be a certain quantity of water above the grain, about 2 lbs. of semi-dried yeast, and from 15 lb. to 2 lb. of glucose having been previously mixed with the water, this fermentable matter acts by degrees upon the grain, which, after about twenty or twenty-four hours immersion, is ready for fermentation as bread, having absorbed from fifty to seventy per cent of water. The water is then drawn off, and the grain is placed in a hopper, which, by means of a distributor, causes it to pass between rollers, where it is reduced to a pasty condition. The pasty mass is then mixed with water, to which the requisite amount of salt has been added, and the dough is then made up into loaves and baked.

**A NEW SWEETMEAT.**—It is often amusing to notice the very simple and ordinary matters which are sometimes made the subject of a patent, the following is one of them. M. Francois Aron, of Lyons, France, has provisionally patented a method of manufacturing a *veritable* sweetmeat. He mixes seven ounces of sugar, one ounce of marmalade, eleven drams of rum or other spirit, eleven drams of extract of meat. After thorough incorporation, the sweetmeats are molded, dried, and finally candied.

**BLIND MORTISING MACHINE.**—Martin Buck, Lebanon, N. H.—This invention consists in arranging the levers which move the slides carrying the stiles to be bored and mortised, to or from the boring or mortising tools, for adjustment, so that the said slides may have a greater or less movement as required by the nature of the work. It also consists in an arrangement of interchangeable ratchet bars with ratchet teeth of different pitch, for varying the movement of the stiles past the cutter for different kinds of work. It also consists in an adjustable arrangement of the reciprocating boring and mortising tool carrying carriage for varying the angle of the slots.

**MODE OF PACKING EGGS, FRUIT, ETC.**—A. S. Smith, Lawrence, Mass.—The invention consists in the employment of pockets made in pairs of strips of stiff paper, leather, or bark, folded, and joined in a way to make two pockets of one strip and by one fastening, and of the proper size to receive one article each, the said pockets being open at each end, and arranged in tiers in a box, barrel, or case, with dividing boards between each tier, constituting the end walls of the said pockets when in position.

**WASH BOILER.**—G. E. Calkins, Rock Island, Ill.—This invention relates to improvements in wash boilers such as are arranged to cause a circulation of hot water and steam from the bottom upward through pipes or passages, and has for its object to provide an improved construction and arrangement of the false bottom or rack, whereon the clothes rest for keeping them above the bottom, to provide space for generating the steam.

**BLACKING BOXES.**—C. H. Gatchell, Oldtown, Maine.—This invention relates to improvements in blacking boxes, and consists in providing pointed tacks projecting downward from the bottom for holding the box from being moved around on the table or other board whereon it sets, when rubbing the brush on the blacking to charge it for applying to the shoe.

**WELDING, TEMPERING, TOUGHENING, AND PURIFYING IRON AND STEEL.**—J. F. Beazel, Uniontown, Pa.—This invention relates to improvements in welding, tempering, toughening, and purifying iron and steel, and consists in working the same in the presence of a flux of caustic soda, known in commerce as "saponifier," or "concentrated lye."

**STUMP EXTRACTOR.**—Alexander McLeod, Black River Falls, Wis.—The object of this invention is to furnish a simple, convenient, powerful, and effective machine for extracting stumps from the ground, and it consists in a combination and arrangement of mechanical appliances by means of which the object in view is attained.

**MACHINE FOR MAKING WOOD PULP.**—Frederick Burghardt, Curtisville, Mass.—This invention relates to a new and useful improvement in machines for reducing wood to pulp for use in manufacturing paper, and consists in a wheel with one or both of its sides provided with grating, rasping, filing, or roughened surfaces, in contact with which the wood to be reduced is brought.

**KNIFE SHARPENER.**—W. H. Howland, San Francisco, Cal.—This invention relates to a new and useful improvement in an article for sharpening knives, whereby that necessary operation is greatly facilitated, and it consists in the employment of two conical disks, composed of emery or of some equivalent grinding composition or material, secured together in a suitable stand or support by means of a screw or bolt.

**BEEHIVE.**—W. A. Elam, Milan, Tenn.—This invention relates to new and useful improvements in beehives, whereby they are rendered more useful than they have hitherto been, and consists in the construction and arrangement of parts.

**WAGON SEAT SPRING.**—Cyrus C. Carter, Exeter, Ill.—This invention relates to a new and useful improvement in seats for lumber and other wagons, and consists in the novel arrangement of adjustable springs.

**HARROW.**—John H. Miller and F. A. Pickering, Niantic, Ill.—This invention relates to new and useful improvements in harrows, whereby the parts which carry the harrow teeth are made adjustable, so that obstructions may be avoided and so that the harrow will adjust itself to the surface of the ground over which it passes.

**COMBINED PLATE LIFTER AND BREAD TOASTER.**—T. D. Keith, Mayville, Wis.—This invention relates to a new and useful improvement in an article for kitchen use, designed for lifting plates and toasting slices of bread, and it consists in the use of a slide on two or more long hooks secured to a handle.

**BABY WALKER.**—John C. Goulding, Trenton, N. J.—This invention has for its object to so construct baby walkers that it will fit the child like a garment, allow the same freedom of motion while supporting it, and be simple, light, and cheap at the same time.

**STAIR ROD FASTENER.**—Joseph Stuehler, Brooklyn, N. Y.—This invention relates to a new stair rod fastener, which is so constructed that the rod can be readily applied and removed, and securely retained in proper position.

**GANG SAW MILL.**—William Penny, Milton, Fla.—This invention relates to a new manner of constructing and arranging the frames of gang saw mills, with a view of producing a simple, effective, and compact machinery which may be readily transported, and which will combine all the requisites of a full working mill.

**BASKET.**—C. Renne and F. Landenberger, New York city.—The object of this invention is to construct a basket so that it will indicate the weight of the articles contained in it, to enable housekeepers and other parties buying goods to judge whether the correct weight has been measured out to them.

**ANIMAL TRAP.**—Robert Tompkins, Clarksville, Tenn.—This invention consists of a cylinder of wire netting, mounted upon trunnions so as to easily revolve, having a hole at one end for the entrance of the victim, and, near the other, the hook holding the bait. The weight of the animal, as soon as he enters the cylinder, causes the latter to rotate until such rotation is checked by a stop at a point where an egress is afforded from the cylinder into a retaining box, immediately upon which egress of the animal the cylinder, relieved of its weight, rotates back to its original position and is reset.

**BILLIARD-TABLE CUSHIONS.**—Mathew Delany, Virginia City, Nevada.—This invention relates to improvements in billiard-table cushions, and consists in the combination with the india-rubber cushions, of wires or cords embedded in the edges, running from end to end thereof, and strained by straining keys, or other devices, in a way as to impart a superior springing quality to the said cushions.

**HULLING MACHINE.**—G. A. Buchholz, Shepherd's Bush, England.—This invention consists of a cylindrical case fitted at its opposite sides with panels of wire gauze or perforated metal to facilitate ventilation within, and armed on its inner periphery at the parts not occupied by the panels with sets of steel blades fixed radially in segmental groups; within the cylindrical case is mounted a series of drums, say four, the number preferred for ordinary working, which are keyed upon a central rotating shaft; these drums are armed on their peripheries, with blades made like those on the case of flat steel plates. The drums are cast with radial wings, extending from the boss to the periphery, and holes are formed through the drums to allow of a down draft being created and distributed through the case by the wings as the drums are rotated. The drums instead of being inclosed, as heretofore, in separate cylindrical chambers have interposed between them horizontal rebated ring plates, which form part of the case. These ring plates and also the bottom plate of the case are cast with annular-flanged projections, which are intended to receive steel blades rebated at the back to fit the flanged projections.

**PROSCOPIC.**—George Brownlee, Princeton, Ind.—This invention relates to a new apparatus for displaying successively any suitable number of photographic or other pictures. The object of the invention is to construct a case, not much larger than necessary to hold the pictures, and without any machinery, and still to allow all pictures to be displayed in the required succession by the motion of the case.

**APPARATUS FOR TEMPERING STEEL.**—C. B. Cottrell, Westerly, R. I.—This invention relates to a new apparatus for conveniently and rapidly tempering small tools or other articles made of steel.

**KEY AND KNOB SHANK GUARDS.**—Max E. Berolzheimer, New York city.—This invention consists of a sliding guard having a notch or slot in the end for sliding over the plain sided shanks of the keys or knobs so as to hold them in the manner of a wrench, to prevent them from being turned; the said slides may be provided also with pins for passing through holes in the shanks, or they may hold the same wholly by the pins if preferred. They are also provided with caps fastened to the lock plate or door for the reception of the ends, to confine them against efforts which may be made from without to force them away from the door by strong rods inserted in the keyholes and forced against them. They may also be provided with any preferred means to hold them from sliding back, to disengage the shanks, and when applied to the keys they are made broad enough to cover the whole of the keyhole.

**A NEW RAILWAY BRAKE** has been invented in England which acts automatically when the connections between the parts of a train are any of them ruptured to bring both portions of the train to a standstill. The details of its construction are not given in the papers which announce the invention except that the brakes are thrown into operation by the rupture of a small chain which passes under the train from end to end.

**LATHES ATTACHMENT FOR TURNING OVALS.**—Ramsey Lawson, Shelburne Falls, Mass.—This invention has for its object to furnish an improved device for attachment to lathes, by means of which oval handles for tools, and other oval work may be turned with the same ease and rapidity as round work.

**COMBINED PLANTER AND CULTIVATOR.**—John A. Rockwood, Kinserhook, Ill.—This invention has for its object to furnish a simple, convenient, strong, durable, effective, and cheap machine, which shall be so constructed and arranged that it may be easily and quickly adjusted for use as a planter or cultivator, as may be required.

**TURBINE WATER WHEEL.**—A. M. Harding, Oregon City, Oregon.—This invention has for its object to furnish an improved water wheel, which shall be simple in construction and effective in use, being so constructed and arranged as to economize the water and enable its admission to be more conveniently regulated and controlled.

**CULTIVATOR.**—S. W. Brock, Niantic, Ill.—This invention has for its object to furnish an improved cultivator, which shall be simple in construction, effective in operation, and easily adjusted to work closer to or further from the plants and to turn the soil towards or from the plants, as may be desired.

**HAND CORN SHELLER.**—Charles M. O'Hara, Bonnar, Tenn.—This invention has for its object to furnish a simple, convenient, and effective device, by means of which the corn may be shelled quickly and easily, and which shall be particularly adapted for shelling corn for seed or meal, where only part of the kernels are to be removed from the cob.

**COMBINED SCOOP AND SIFTER.**—Cephus Boucus, Waupun, Wis.—This invention has for its object to furnish a simple and convenient instrument, by means of which flour, and other substances, may be lifted and at once sifted without its being necessary to handle them two or three times before getting them sifted and into the place or vessel where they are to be used.

**CULTIVATOR.**—I. N. Gates, Burnside, Ill.—This invention has for its object to furnish an improved device for connecting the plow beams to the truck frame of a cultivator, which shall be simple in construction, strong and durable, and effective in operation, permitting a free vertical and lateral movement of the plows, and at the same time holding the plow beams loosely and steadily, preventing all tendency of the plow to wallow or tip when plowing crooked rows.

**COMBINED BED AND KEY BOARD MUSICAL INSTRUMENT.**—John McDonald, New York city.—This invention has for its object to furnish a key-board musical instrument, which shall be so constructed that it may be opened up to serve as a bed, and which, when closed, shall have every appearance of, and may in fact be, a real instrument, suitable to be placed in a parlor or sitting room.

**COMBINATION POCKET RULE.**—This invention consists in a combination of twelve tools in one instrument, to be carried in the vest pocket and weighing less than one ounce. It is a pocket rule, ruler, square, bevel, screw driver, chisel, compasses, scissors, button-hole cutter, paper knife, eraser, and pencil sharpener. The instrument is finished in various styles—plain steel, silver, or gold plated. It is a most convenient and useful article. It will be found advertised on our last page by the Combination Tool Co., 95 Mercer street, N. Y.

**BENDING MACHINE.**—David Pierce, Almont, Mich.—This invention comprises an apparatus for first bending the edges of the strips of sheet metal for eave troughs to receive the wire; also, an arrangement of apparatus for bending the sheet into the finished form and for wiring the edges; and also an apparatus for bending the sheets for the conductors, and for forming a part of the locks for uniting the edges.

**BRIDGE.**—H. W. Cass, Lodi, Wis.—This invention consists in an arrangement of counter chords at the center thereof, and braces between the ends of the said counter chords and the upper chord, whereby the upper and lower chords are braced by a series of inverted arch-shaped braces. The invention also comprises, in connection with the above, an arrangement of lateral brace rods.

**GARDEN IMPLEMENT.**—Henry Miller, Roadside, Va.—This invention consists in the manner of connecting the handle with stock, whereby the former is rendered removable, and, also, capable of being kept always tight.

**CURRYCOMB.**—J. E. Yager, Barboursville, Va.—The object of this invention is to construct a currycomb in such a manner, that when it gets out of order from any cause, it can be readily taken apart and adjusted or repaired.

**SHOVEL PLOW PLATE AND POINT.**—Henry Miller, Roadside, Va.—This invention consists of a plow plate, or mold, to be secured to any plow stock, its face being concave, lengthwise, and flat crosswise, and the mold having seats at its ends into which are placed reversible points of shape suited to the seats.

**FIREPLACE HEATER.**—Benjamin F. Conley, Tunnelton, West Va.—This invention relates to improvements in hearths for fireplaces, and consists of a new and improved manufacture of hearths of cast metal, in place of ornamental designs, and of any size or shape for application to fireplaces of all dimensions or shapes.

**HULLING MACHINE.**—G. A. Buchholz, Shepherd's Bush, England.—This invention relates to the employment of improved machinery for manufacturing semolina. In carrying out this manufacture, the wheat intended to be converted into semolina is first hulled in a novel construction of apparatus, the acting surfaces of which are formed of metal blades which, when the apparatus is set in motion give to the grain the friction requisite for removing the outer skin or the greater portion thereof. When the grain has passed through this hulling machine, the bran or hull is separated therefrom in any approved manner, and afterwards the grain is submitted to the action of a novel construction of roller mill whereby a large portion will be reduced to semolina fit for the market. This is separated by sieves or other suitable means, and the remainder is reduced in any known or approved manner to flour which may be dressed and finished as usual for the market.

**MACHINE FOR BORING AND TENONING.**—Thos. Place, Alfred Center, N. Y.—This invention relates to improvements in machines for boring felles and tenoning spokes, such as patented to the same inventor March 12, 1867, No. 62,883, and consists in an improved arrangement of the turntable for holding and centering the hub on the carriage, for holding up to the auger and spoke holder.

**BUCKLE.**—Henry R. Swan, Norwalk, Conn.—The object of this invention is to confine the cloth, which supports the buckle, exactly in the center of the hook, so as to prevent its crowding to one side or the other when subjected to a lateral or oblique pull.

**HOISTING MACHINE FOR RUNNING UP SLOPES.**—Geo. Martz, Pottsville, Pa.—This invention relates to the propulsion of cars laden with coal from the gangway of a mine, up an inclined way, to the surface, by means of a motive truck, separate from the cars, and running upon a track above them.

## Business and Personal.

The Charge for Insertion under this head is One Dollar a Line. If the Notices exceed Four Lines, One Dollar and a Half per line will be charged.

To ascertain where there will be a demand for new machinery or manufacturers' supplies read Boston Commercial Bulletin's manufacturing news of the United States. Terms \$400 a year.

For the best and cheapest scroll saw, address circular Post-office Box 303 Fort Plain, N. Y.

Blacksmiths and machinists send for circular of patent swage block, Lyman Kinsley & Co. Cambridgeport, Mass.

Patent pocket safety letter carrier. "A Neat Pocket Friend." By mail \$1, postpaid. Address J. W. Burns, Medway, Clark county, Ohio.

Steel springs tempered. J. F. Dubber, 42 Hicks st., Brooklyn, N. Y., patentee of the self-closing pocketbook.

For Sale—The patent right of a "Combined Mat and Foot Scraper." \$800. "C. B." New York Postoffice, Box 1904.

Send for the Acme Club Skate. See advertisement.

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Manufacturers of wrought-iron thimble skeins for wagons will please correspond with J. M. Sandell, Danville, Texas.

For best quality Gray Iron Small Castings, plain and fancy Apply to the Whitneyville Foundry, near New Haven, Conn.

Keuffel & Esser, 71 Nassau st., N. Y., the best place to get 1st-class Drawing Materials, Swiss Instruments, and Rubber Triangles and Curves.

Foot Lathes—E. P. Ryder's improved—220 Center st., N. Y.

Those wanting latest improved Hub and Spoke Machinery, address Kettenring, Strong & Lauster, Defiance, Ohio.

For Aluminum Bronze and Oroide Watches, Chains, and Jewelry, send to Oroide Watch Co. Boston, U. S. Price list sent free.

For tinmams' tools, presses, etc., apply to Mays & Bliss, Brooklyn, N. Y.

Mill-stone dressing diamond machine, simple, effective, durable. Also, Glazier's diamonds. John Dickinson, 64 Nassau st., New York.

Send for a circular on the uses of Soluble Glass, or Silicates of Soda and Potash. Manufactured by L. & J. W. Feuchtwanger, Chemists and Drug Importers, 55 Cedar st., New York.

Glynn's Anti-Incrustator for Steam Boiler—The only reliable preventative. No foaming and does not attack metals of boiler. Liberal terms to Agents. C. D. Fredricks, 587 Broadway, New York.

Cold Rolled—Shafting, piston rods, pump rods, Collins pat. double compression couplings, manufactured by Jones & Laughlins, Pittsburgh, Pa.

For solid wrought-iron beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.

Machinists, boiler makers, tanners, and workers of sheet metals read advertisement of the Parker Power Presses.

Diamond carbon, formed into wedge or other shapes for pointing and edging tools or cutters for drilling and working stone, etc. Send stamp for circular. John Dickinson, 64 Nassau st., New York.

The paper that meets the eye of manufacturers throughout the United States—Boston Bulletin, \$400 a year. Advertisements 17c. a line.

Winans' boiler powder, 11 Wall st., N. Y., removes Incrustations without injury or foaming; 12 years in use. Beware of Imitations.

## Inventions Patented in England by Americans.

[Compiled from the "Journal of the Commissioners of Patents."]

### PROVISIONAL PROTECTION FOR SIX MONTHS.

- 2,625.—PUMP.—J. W. Douglas, Middletown, Conn. Sept. 14, 1869.  
 3,092.—SEWING MACHINE NEEDLES.—Mrs. H. G. Suplee, San Francisco, Cal. October 25, 1869.  
 3,118.—MANUFACTURE OF SHEET IRON.—S. Parker and H. S. Pratt, Hartford, Conn. October 27, 1869.  
 3,125.—ELECTRO-DEPOSITION OF NICKEL.—Isaac Adams, Jr., Boston, Mass. October 28, 1869.  
 3,133.—SHAFT COUPLING.—M. Clemens, Boston, Mass. October 28, 1869.  
 3,137.—SPRING.—J. Trent, Millerton, N. Y. October 29, 1869.  
 2,919.—AXLE BOXES.—D. H. Dotterer, Philadelphia, Pa. Oct. 8, 1869.  
 2,942.—MEANS OF LOCOMOTION.—Thomas Luders, Olney, U. S. October 8, 1869.  
 3,067.—ROTARY BLOWING ENGINE.—P. H. Roots and F. M. Roots, Connersville, Ind. Oct. 21, 1869.  
 3,093.—DRY WHITE LEAD AND WHITE LEAD PIGMENT FROM METALLIC LEAD.—G. T. Lewis, Philadelphia, Pa. Oct. 25, 1869.  
 3,095.—ADHESIVE COMPOUND.—S. P. Conner, Philadelphia, Pa. October 25, 1869.  
 3,115.—WIRE DRAWING, ETC.—D. F. Maltby, Waterbury, Conn. Oct. 27, 1869.  
 3,130.—AXLES FOR VEHICLES.—J. M. Regua, New York city. October 28, 1869.  
 3,131.—DRAWING FRAMES.—Chas. Wall, New York city. October 28, 1869.