

springs. The machine is placed or fitted upon a truck to enable the drill to be readily placed in position or adjusted to its work. J. S. French, of San Francisco, Cal., is the inventor of this machine.

**Stuffing for Mattresses &c.**—This invention, which was patented last week, consists in a peculiar manner of treating cork waste, whereby the same is rendered soft and elastic. The stuffing thus obtained is particularly adapted for mattresses, its principal advantages being its coolness and cleanliness, affording no refuge to vermin. It is also free from moisture, and for these reasons a mattress made of this cork stuffing is particularly adapted for hospitals and for the army. Its lightness recommends it to masters of vessels. A. C. Crondal, of 36 Mott street, New York, is the patentee of this improvement.

#### APPLICATIONS FOR THE EXTENSION OF PATENTS.

The following persons have applied to the Commissioner of Patents for the extension of their patents:—

**Improvement in Rotting Flax.**—Lemuel W. Wright, of Palmer, Hampden county, Mass., has petitioned for the extension of a patent granted him on the 25th of December, 1849, for an improvement in rotting flax, said patent expiring Dec. 25, 1863. It is ordered that the case be heard at the Patent Office, Washington, on Dec. 7, 1863, at 12 M. All persons interested are required to show cause why the claim should not be granted. Persons opposing extension are required to file their objections in writing at least 20 days before the day of hearing.

**Spark Arrester.**—James Radley, and Margaret D. Hunter, of New York city, Administrators of John W. Hunter, deceased, for an extension of a patent on a spark arrester, obtained on Jan. 2, 1850, and which expires on Jan. 2, 1864. Claims to be heard Dec. 14, 1863.

**Steam Boiler Furnaces.**—Benjamin Crawford of Allegheny City, Pa., for an extension of patent granted him for an improvement in steam boiler furnaces, on Jan. 29, 1850, and which expires Jan. 29, 1864. Claims to be heard Jan. 14, 1864.

All persons interested in the above cases are notified to appear (as per directions in the first case) and state their objections, &c., at the Patent Office, Washington, D. C.

#### NEW BOOKS AND PUBLICATIONS.

**WHAT TO EAT AND HOW TO COOK IT.** P. Biot. D. Appleton & Co.

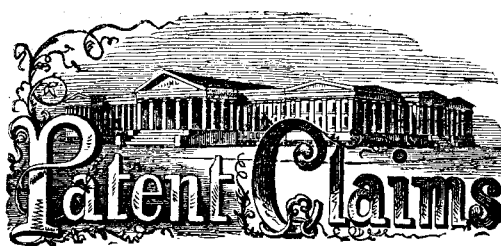
It is an old adage that "Heaven sends meat but the devil sends cooks;" and in view of the messes, misnamed food, served up daily in a thousand homes in the land, it would seem as though a little instruction in the art of cooking is sadly wanted. It is just as necessary to perfect health that food should be appetizing and wholesome, as it is imperative that man must eat to preserve life; and here it is that good cooking fulfils an important part in the economy of life. No man need make a god of his belly, as the saying is; but the simplest food may be easily spoiled by one ignorant of the first principles of the culinary art. In the book before us there are a quantity of recipes for cooking every conceivable kind of game, meat, vegetables, soups, &c., and to judge from the modes of preparation they are not only wholesome and savory, but cheaply made—a consideration of no small importance at the present time. Innumerable cookery books have been written, but we have seen none more comprehensive or more clearly written than "What to Eat and How to Cook It."

#### TO OUR READERS.

**PATENT CLAIMS.**—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the patentee and date of patent, when known, and inclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

**RECEIPTS.**—When money is paid at the office for subscriptions, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona-fide acknowledgment of our reception of their funds.

**NEW PAMPHLETS IN GERMAN.**—We have just issued a revised edition of our pamphlet of *Instructions to Inventors*, containing a digest of the fees required under the new Patent Law, &c., printed in the German language, which persons can have gratis upon application at this office. Address MUNN & CO., w. New York.



ISSUED FROM THE UNITED STATES PATENT-OFFICE

FOR THE WEEK ENDING SEPTEMBER 29, 1863.

Reported Officially for the Scientific American.

\* \* \* 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.

40,088.—Suspension Rack for Coupon Tickets, &c.—E. P. Bacon, Milwaukee, Wis.:

I claim a case or rack, for coupon tickets or other articles to which it may be adapted, provided with horizontal bands or supports, a, a, attached to upright standards, b, b, with projections, d, d, on the latter, at the several points of intersection, hooks or other means of suspension being affixed to the horizontal bands, from which tickets or other articles may be suspended, when constructed in this or any other manner substantially the same, for the purposes set forth.

40,089.—Marking Brush.—E. P. Clark, Northampton, Mass.:

I claim the elastic fountain, B, in combination with the tube, A, and brush, G, as shown and described for the purpose set forth, also the brush, G, connecting with the handle, C, sliding within the tube, A, in the way and for the purpose before described.

40,090.—Furnace for Grain Dryers.—M. C. Cogswell, and A. G. Williams, Buffalo, N. Y. Ante-dated Sept. 20, 1863:

We claim the arrangement of the flues, c, l, c, 2, 3 and D (including their valves) relatively with the blower, H, hot-air chamber, E, and pipe, M, for the purposes and substantially as described.

40,091.—Flax Brake and Swingler.—Samuel Cowan, Bloomfield, Iowa:

I claim the combination of the rollers, F, G, N, O, with the endless aprons, B and I, and reel, P, when the two latter move at the same speed, substantially in the manner and for the purposes herein set forth.

I also claim combining with a flax brake, constructed and operating as herein described, the swingler, T, substantially in the manner and for the purposes set forth.

40,092.—Cartridge Bullet.—W. H. Dibble, Middletown, Conn.:

I claim the within-described new article of manufacture, to wit: A quick powder, ductile-metal tubular cartridge projectile, a, b, c, e, with a quick powder charge, within it, and with a fibrous covering, h, and a highly inflammable cementing and igniting cap, i, all as set forth.

40,093.—Skate Fastening.—W. H. Dutton, Utica, N. Y. Ante-dated Sept. 20, 1863:

I claim, first, Tons, H, in combination with the stationary straps, in the manner and for the purpose described.

Second, The double turn or pulley in the strap, in combination with the metal loops and button fastenings, as described and for the purposes described, the whole being arranged and operating substantially in the manner herein set forth.

40,094.—Lamp.—M. B. Dyott, Philadelphia, Pa.:

I claim a lamp made with a drip-trough depression, b, at its neck and a handle-depression or indentation, C, at its side, with attached handle, C, therein, all as herein shown and described.

[This invention relates to that class of lamps designed for burning coal oil, and it is believed that it possesses many advantages over the ordinary burners.]

40,095.—Cultivator.—B. F. Field, Sheboygan Falls, Wis.:

I claim, first, The arm or drag-bar, G, when constructed as described.

Second, The combination of the arm, G, the cultivator, E, F, the independent rolling shield, K, and the arm, L.

Third, The combination of the crank, R, the pulleys, t and s, the shaft, P, and the cords or chains, r and p, for the purpose of elevating the cultivators and shields.

Fourth, The wheels of a cultivator adjustable on their shaft or axle, by means of the collars, n, n, and set screws, o, substantially as set forth.

40,096.—Cultivator.—B. F. Field, Sheboygan Falls, Wis.:

I claim, first, A cultivator shear, when constructed substantially in the manner described, to be attached to the ordinary drill tooth.

Second, The long handle, H, in combination with the lifting bar, G, substantially as described and for the purpose set forth.

40,097.—Rock Drilling Machine.—J. S. French, San Francisco, Cal.:

I claim, first, The manner of arranging the frame, I, of the machine, so that it and, consequently, the drill, T, may be adjusted in either a vertical or horizontal position or at any degree of inclination between those positions, and at any point in a circular plane parallel with the axis of the drill, to wit: by having the frame, I, hung loosely on an arm, i, which is attached to a block or nut, F, fitted in a vertical column, c, having a screw, a, placed in it, which passes through the block or nut, and the column arranged to turn on a plate, B, on the truck, A, the column being retained at any desired point, and also the frame, I, by the means herein described or their equivalents.

Second, The drawing back of the drill, T, after each stroke, by means of the slide, R, connected with the drill through the medium of the collar, c, fitting in the ledge, c', on the slide, the slide being operated by the rack, r, pinion, s, pawl, S, and crank, n on shaft, K, and springs, u, u, or their equivalents as set forth.

Third, Rotating or turning the drill, T, during its backward movement, by means of the box, V, gearing, v', g', ratchet, h', and pawl, V, attached to the pawl, S, substantially as set forth.

Fourth, Operating the hammer, Q, through the medium of the cam, L, slide-bar, M, and springs, P, P, substantially as specified.

40,098.—Hay Fork.—Theodore Foster, of Coxsackie, N. Y.:

I claim, first, The hinge, b, secured to the top of the handle, B, and operating in combination with the latch, D, and with the fork, in the manner and for the purpose herein shown and described.

Second, The ring, g, and loop, i, in combination with the toggle arms, d, e, and latch, D, all constructed and operating in the manner and for the purpose specified.

[This invention relates to certain improvements in the arrangement of the bale from which the fork is suspended, and those parts which retain the bale while the fork is hoisted, and releases the same and allows the fork to tilt when it is desired to discharge the load; also, to a certain improvement in the position and shape of the tines, whereby the same are rendered more firm and less liable to break than tines of the ordinary construction.]

40,099.—Printing Press.—G. D. Gordon, Brooklyn, N. Y.:

I claim, first, Locking and holding a rocking platen securely in a stationary position for the purposes fully described.

Second, I claim placing the shaft of the rocking platen between

the impression shaft and the vibrating bed shaft, thus causing the shafts to fall in a direct line with the connecting rods, at the moment of impressions, for the purpose or purposes set forth.

Third, In combination with the shafts so arranged, I claim the manner described of operating the rocking platen for the purpose specified.

Fourth, I claim the end gage, Y, constructed and operated substantially as shown; also, the combination of such end gage, Y, into the drop gage, X, for the purposes herein fully described.

40,100.—Axle Box for Vehicles.—S. F. Green, Croton Falls, N. Y.:

I claim, The combination with the two parts of the divided box, D, axle, A, and nut, B, of the nut, E, in the manner and for the purpose herein shown and described.

[This invention consists in having the axle box made in two longitudinal parts, and having a screw thread cut on the outer ends of said parts to receive a rack, which is provided with a circular plate or flange to fit into the outer end of the hub, and serve as an outer bearing for the box and retain the same in a firm position in the hub, the interior of the box being lined with Babbitt metal, whereby the usual difficulty of the working of the box in the hub is avoided, and the box and axle are rendered capable of resisting much wear.]

40,101.—Sheep Rack.—William Heaton, Center Township, Pa.:

I claim the sheep rack, provided with the double inclined bottom, E, sliding fenders, O, and feed-holders, G, provided with prongs, I, the whole constructed, arranged and operating substantially as herein set forth.

40,102.—Slate Pencil Sharpener.—J. M. Hicks, Boston, Mass.:

I claim the manufacture of slate pencil sharpeners or other equivalent instruments, without a separate casing or frame, permanently to hold the roughened surfaces in their relative position as set forth, by forces upon one face upon one plate or piece, which is bent in the manner and for the purposes herein described.

40,103.—Quartz Crushers.—Alonzo Hitchcock, Chicago, Ill.:

I claim the combination of the circular cap and trough and the three crusher wheels, constructed and operated substantially in the manner described.

40,104.—Cooking Stove.—J. R. Hyde, Troy, N. Y.:

I claim, first, In a cooking stove having an oblong fire-chamber, A, with pot-holes, h, h', over it, and a live air-chamber, D, D, alongside with apertures, e, between, and a fire-flue, F, extended from the said fire-chamber first over the said air-chamber, as herein described, the removable air-chamber cover, i, i, constructed in several parts and secured to the said air-chamber by clamps, k, k, as and for the purposes herein set forth.

I also claim a cooking stove having two separate sub air-chambers, D, D, arranged between an oven, L, and a fire-chamber, A, and communicating with the latter by apertures, e, e, and with the open air by passages, m, m', separate from each other and from the main draft-chamber, C, and provided with independent dampers, n, n', when a fire-flue, F, is extended from the said fire-chamber along the said oven, a, and under pot-holes, h, h' 2, 3, in a top-plate, G, substantially as herein described.

40,105.—Adding Machine.—M. C. Jeffers, New York City:

I claim the combination in an adding machine of the wheels, B, B, hubs, C, C, and verges or escapements, F, F, substantially as and for the purposes set forth.

40,106.—Register for Account Books.—A. F. Jones, Douglas, Mass.:

I claim the merchant's monitor, being circular to economize room, revolving for greater convenience, and to save steps by bringing the books round to the operator, with movable cases and alphabetically and numerically arranged, essentially as above described.

40,107.—Planting Hoe.—C. N. Jones, Galway, N. Y.:

I claim the arrangement of the foot, E, at the lower end of the seed slide, E, when the latter works in a box, C, secured to the handle of a hoe, A, in the manner and for the purpose shown and described.

[The object of this invention is an attachment to an ordinary hoe whereby corn or other seed can be dropped simply by pushing the hoe down on the ground, and the time usually lost in counting the kernels can be saved.]

40,108.—Chime Bell for Horses.—Charles Kirchoff, Newark, N. J.:

I claim, first, The contrivance, a, a, or its equivalent, to attach and support on or about the horse's collar or bell and clappers or their respective equivalents, connected with each other and with the contrivance in the manner and for the purpose as specified.

Second, The combination of rein rings or equivalents with said contrivance as set forth.

Third, The method to produce a peculiar harmonic prolonged alarm by governing and extending the operation of the hammers or clappers and bells by means of springs or vibrating materials, and by other devices described, and the manner in which these different parts are arranged and combined with each other, and also with the contrivance, a, a, as specified herein.

40,109.—Attaching Labels to Bales, &c.—E. A. Locke, Boston, Mass.:

I claim the carrier, A, when made with an end gradually tapering to a point, and preceding the anchoring device, provision being made in or on the carrier for attachment thereto of the detachable anchor.

And I claim so making the anchor that it may be attached to the side and near the point of the carrier, so as to pass easily into the bale with the carrier, and be left therein on withdrawal of the same.

40,110.—Washing Machine.—T. R. Markkille, Winchester, Ill.:

I claim, first, The combination of the furnace, C, with the bottom-plate, of a washing machine in the manner and for the purposes as described.

Second, The method of operating the traveling squeezer, L, by means of the crank-shaft, F, pitman rod, I, and swing arms, h, herein described, whereby the purposes set forth are effected in a simple and efficient manner.

40,111.—Cartridge.—Edward Maynard, Washington, D. C.:

I claim the formation of one or more clamping or retaining tongues in the upper rim of a metallic cartridge by sitting the edge of the same substantially in the manner and for the purpose herein set forth.

40,112.—Metallic Cartridge.—Edward Maynard, Washington, D. C.:

I claim combining with a metallic or otherwise cartridge, a suitable retracting arm, chain, thong or cord, in such a manner as to avoid the necessity of a distinct or unusually thick bottom thereto, substantially in the manner hereinbefore described.

40,113.—Car Seat Lock.—George McGregor, Cincinnati, Ohio:

I claim the arrangement and combination of the case, A, with lug, j, and pin, m, hollow key, C, with double shouldered bit, k, and spring bolt, B, all constructed and operating in the manner and for the purpose shown and described.

[The object of this invention is a latch peculiarly adapted for locking the backs of car seats in either position in which the same may be brought, and arranged in such a manner that the same can be made at a trifling expense, requiring a comparatively small quantity of metal, and that is strong, durable and not liable to get out of order.]

40,114.—Diving Apparatus.—T. C. McKeen, Dunkirk, N. Y.:

I claim, first, The employment of the independent air knapsack, B, constructed and operating substantially in the manner and for the purpose herein shown and described.

Second, The arrangement of the expandable buoys, C, and diving reservoir, D, in combination with the air reservoir, B, and diving dress, A, constructed and operating substantially as and for the purpose described.

40,115.—Guard Attachment for Locks.—William Miller, Boston, Mass.:

I claim the clasp, D, constructed substantially as shown, so as to be