-Seeding Machine .-- J. H. Thomas and P. P. Mast, 37,712

Springfield, Ohio : We claim the arrangement of the guide, m, in connection with drag bars, a a, the drill teeth, c c, the chains, d d, and the hinged D, provided with the cam. e, used with the seed silde, n, in the n ner and for the purpose herein specified.

37,713.—Horse-power.—D. Van Houten, Fuller's Corners Ind

HUL. : I claim the arrangement of the four shafts, B D F and L, provided respectively with the wheel, C, pulleys, g I, pulley, G, and bevoled wheel, J, and the bevel pinien, K, and pulley, M, in connection with the belts, E H, to form a new and improved horse-power, as herein set forth.

[The object of this invention i to obtain a horse-power of sin construction, with its parts arranged in such a manner that a high speed will be given to the shaft from which the power is taken, and within a very limited space, so that a very compact and portable ma-chine will be obtained, and, at the same time, a durable one. The invention is more especially designed for driving thrashing machines but may be advantageously used for other purposes.]

37,714.—Watch.—E. R. Wait and J. W. Phelps, Ravenna, Ohio: We claim attaching the main wheel loosely to the barrel, and em-ploying a ratchet to transmit the power from the barrel to the said wheel, substantially as herein specified.

[This invention consists in attaching the main wheel of a watch bosely to the barrel, and employing a ratchet to transmit the power from the barrel to the said wheel, whereby, in case of breakage of the main-spring and consequent recoil of the barrel, the latter is en-abled to turn freely and save the train of wheels from the force of such recoil, which, when the barrel and main wheel are rigidly connected with each other, often result in breaking the teeth of the wheel or of the pinion.]

37,715.—Water Elevator.—S. S. Williams, Pittsburgh, Pa.: Iclaim the combination and arrangement of the parts, as herein specified and shown, for the purposes as set forth.
37,717.—Dredging-box with Grater and Cake-cutter at-tached,—George D. Bayley, Lebanon, N. H., assignor to Giles B. Johnson, Boston, Mass:
What I claim as a new article of manufacture, is the above de-scribed article, comprising a grater, dredge-box and cake-cutter com-bined, substantially as set forth.
27,717. Diago forte. William Bouwne, (argience, to No.

bined, substantially as set forth. 37,717.—Piano-forte.—William Bourne (assignor to Na-thaniel Cummings), Boston, Mass. : I claim extending the sounding board in rear of the hammer pass, sage thereof, and underneath the straining pin bar of the iron frame-and from side to side and end to end of the case, and as o suspending the said bar over the part of such board, which is in rear of the ham-mer passage, that there may be a free or uninterrupted vibration space, f, between the two, substantially as bereinbefore described.

space, i, between the two, substantially an bereinberore described.
37,718.—Laghtern.....P. J. Clârk (assignor to S. S. Clark), West Meriden, Conn.: I claim, as an improved article of manufacture, a lantern having its base or lower metalike portion, C, provided with an opening, c, and having a movable band. E, or a section of a band fitted upon the base which band is also provided with an opening, b, all being arranged in such a manner that, by turning the band, the opening, b c, may be made to register, or be brought in line with each other, or placed out of register or line with each other, for the purposes specified.

[The object of this invention is to obtain a simple means whereb the lamp of the lantern may be lighted and also blown out or extin-guished, and the wick raised or lowered without detaching or remov-ing the lamp from the lantern. To this end, the invention consists in having a movable band fitted on the base or lower metallic portion of the lantern, said band having an opening made in it, also in the base or metallic portion of the lantern, so that by turning the band the opening in the latter may be made to register or be brought in line with the opening in the base, and a match inserted through the said openings, and broughtin contact with the wick of the lamp; the band when the lamp is lighted and the match withdrawn, being turned so as to close the opening in the base. By this arrangement also the lamp may be blown out as well as lighted, without removing the lamp from the lantern.]

37,719.—Hoop-driving and Barrel-erozing Machine.—Edg-ward Holmes (assignor to E. & B. Holmes), Buffalo, N. Y.: I claim, first, Driving hoops on barrels and other casks by power appled to yielding or lexible drivers, substantially as described. Beoord, The ring, K. er equivalent, on which the barrel stands while the hoops are being driven, and which may be moved out of the way for the operation of the chamfering, crozing and howeling took, as set forth.

the hoops are occurs attraction of the observation of the observation of the characteristic observations and the characteristic observation of the characteristic observation obse

process and substantially as described. 37,720.—Stave-dressing Machine.—Edward Holmes (as-signor to E. & B. Holmes), Buffalo, N. Y.: I claim, first, Supporting the cutter frame upon a journal or jour-nals, c, in such a manuer that the frame may oscillate in any direc-tion, according as the varying conditions of the stave to be dressed may require.

tion according as the varying conditions of the same to a second may require. Second, In a machine for dressing stayes which has an oscillating or movable outter frame, in connection with the stationary or gear frame, I claim so supporting the cutter frame as to admit of the use of a weight, or equivalent, as a counterbalance to the cutter frame, substantially as set forth. Third, I claim the projecting bars, D, or equivalent, for the purpose of supporting and connecting the cutter frame to the gear frame, and to allow the cutter frame to oscillate, as set forth.

37,721.—Hose Coupling.—Edmund B. Jucket, New Haven, Cenn., assignor to himself and John W. De Lamater, New York City:
I claim, first, The lever or levers, a, when the same are combined with hose couplings, in the manuer and for the purpose substantially as herein set forth.
Second, The combination and arrangement described of the lever oslevers, a, and ring, C, with the hose couplings, when the same are made to operate substantially as herein specified.

37,722.—Bung for Coal-oil Barrels.—John S. Loomis and Abel Thompson, Brooklyn, N. Y., assignor to Abel Thompson, aforesaid : I claim the ring, a, retailed in the staves, substantially as specified, in combination with the screw thimble, b, and bung, f, for the pur-poses and as set forth.

37,723.—Breech-loading Fire-arm.—John K. Millner (assignor to himself and Samuel T. Suit), New York City: I claim the combining the breech-pin, C, with the open, after end of a rifle barrel, which has a longitudinal loading aperture, B B, therein, when the said breech-pin is guided in its movements, secured in its positions and is made to operate in conjunction with said loading aperture, the hammer of the lock and a primed metallic cartridge placed in the chamber of the barrel, all substantially as herein set forth.

37,724.—Clothes-dryer.—George W. Newell (assignor to S. M. Davis), Lawrence, Mass.: I claim the heb, A, with the bars, B, stiached by pivots, a, in com-bination with the supplemental bars, C, attached to the bars, B, by links or joints b, and the pendent bar, E, attached to the bars, G, by the head, D, the bars, B C, being provided with cords, F G, and all arranged as and for the purpose set forth.

Tranged as and for the purpose set forth. [This invention consists in pivoting a number of bars to a hub in such a manner that they may be folded together or spread apart, and having a supplemental bar attached by a link or joint to each of the pivoted bars, the upper ends of the former being secured by pivots in a head, in which a nendent bar is secured. Both sets of bars above ed have cords passing through them, and all the parts are arranged that a firm, durable and convenient clothes-horse is obtained, one that may, when notin use, be folded compactly, so as not to monopolize much room, and be capable of being very readily ad-justed in proper position, when required, to receive the clothes.]

37,725.—Machine for Cutting Rasps.—A. B. Southwick and H. E. Grandy (assignor to the Whipple File Manufacturing Company), Ballard Vale, Mass. :
 We claim the inclined ways, H, in connection with the cutter car-riage, asset forth for the purpose specified.
 We also claim the method herein described of securing the cutter to its head by means of the mortise, m, the notched bar, s, and the screw, h, operating as described.

screw, h, operating as described. 37,726....Paper Bag Machine...C. H. Morgan, Philadel-phia, Fa.: I claim the machine as a whole composed of elements combined, arranged and operating substantially as here in set forth. I also claim the use of constantly-moving feed rolls acting in com-bination with a tube-supporting bar, substantially as set forth. I also claim the use of a revolving blade acting in combination with a tube-supporting bar to sever portions of tube with overlapping ends, substantially as here in set forth. I also claim the use of rolls to hold the tube while being cut off and to act in combination with a pasting and folding blade in form-ing the bottom of the bag, substantially as set forth.

ing the bottom of the bag, substantially as set forth. 37,727.—Lithographic Printing Press.—G. H. Reynolds, New York City : First, I claim the employment of the faages, n, on the interior surface of the dampening roll, N, in connection with alternate holes in the water tube, N', substantially as and for the purpose specified. Second, I also claim the combination of the cam-shaped pieces, O, shaft, 12, arm, 13, and studs, b2 and h4, with the dampening roll, N, substantially as and for the purpose specified. Third, I also claim the combination and arrangement of the roll-press ure, substantially as harfen i described. Pourth, I also claim the combinetion and arrangement of the roll-res, I', shaft, 12, balance weight, W, arm, 13, and studs or stops, h2 h2, for the purpose of transferring the link from the cylinder, J, to the inking rollers, I, substantially as herein described. Fitth, I also claim the combination of the arm, m2, spring, m3, forked arm, m4, and duct roller, M, substantially as and for the pur-pose set forth.

The infing rollers, I, substantially as herein described. Fifth, I also claim the combination of the arm, m2, spring, m3, forked arm, m4, and duct roller, M, substantially as and for the pur-pose set forth Sixth, I also claim the combination of the multiple cam, k', foun-tain relier, K, arm, m2, and duct roller, M, arranged substantially as described and for the purpose specified. Seventh, I also claim the employment of the springs, k4, between the setscrews, k3, and the fountain trough, K', for the purpose above set forth. Eighth, I also claim the combination and arrangement of the in-clines, F2 R5, pins, q2, springs, q', and soraper bar, Q, for the pur-pose of adjusting the pressure upon the scraper, substantially as herein described. Ninth, I also claim the combination of the wheels, R, having one fattened side, with the planes, A; for stopping the tympan frame in the proper position, as herein described. Tenth, I also claim the combination of the soliding teeth, S, in combination with the flattened wheels, R, and rack; H, substantially as described, for the purpose of causing the wheels, R, to enga the adjustable slotted pieces, S', for operating the said teeth, substan-tially as herein specified. Twelfth, I also claim in combination 'therewith the disks, T, wrist use for the asid stops, iS, for operating the said teeth, substan-tially as herein specified. Twelfth, I also claim, in combination 'therewith the disks, T, wrist Thirteenth, I also claim in combination the soluted arms or nicks, u, shaft. U, cans, V, and sliding spring bars, V, or their res-pective equivalents for operating the disks, T, substantially as herein set forth. Fourteenth, I also claim the combination of the soluted arms or nicks, and and U, attached to the redeproceating Y and use, and the use, us and u9, attached to the redeproceating Y and u6, and the stude, u3 and u9, attached to the redeproceating Y and u6, and the stude, u3 and u9, attached to the redeproceating

pective equivalents for operating the disks, T, Substantially as herein set forth. Fourteenth, I also claim the combination of the shaft, U. levers, u2 and u6, and the studs, u3 and u9, attached to the receiproceating bed, F, for the purpose of operating the shaft, U, and consequently the sliding usth, S, from the reciprocations of the bed, F, substan-tially as herein described. The receiproceations of the bed, F, substan-talo, in combination with the shaft, U lever, u6, and adjustable stop or stud, u9, for the purpose of regulating the number of movements of the bed to each impression, substantially as set forth. Stateenth, I also claim the cam, u12, for lifting the pawls, u7 and u10, out ocolates with the theth of the ratchet wheel, u5, in com-bination with the said ratchet wheel, to permit the return motion of u substantially as herein described. Sevenicenth, I also claim the cam, u13, in combination with the Eighteenth, I also claim the cam, u13, in combination with the Eighteenth, I also claim the cam, u14, for lifting the set forth Eighteenth, I also claim the cam, u14, for substantially as set forth. More than the said ratchet wheel, u0, and retaining pawl, u10, for bringing the said pawls into action, substantially as above set forth bighteenth, I also claim the campagement of the pulleys, x, spring picces, x', fin gers, x2, and roller, Y. for removing the sheet from the sympan, substantially as specified. Minetwenth, I also claim the employment of the registering points, r3, in the revolving tympan frame, W', for the 'purpose, above set forth.

Ninetuent, I also that in the etoployment of the registering points, rs, in the revolving tympan frame, R, for the 'purpose, above set forth. RE-ISSUES. 1,409.—Coal Stove.—G. J. Kingsbury, Rochester, N. Y. Patented April 12, 1859 : First, I claim the introduction of a second supply of air into the fame space or spaces, at or near the junction of the fire-pot, B, and cap, G, and at or near the point where the gas escapes from the combination with an interior feeding chamber, subtantially as here-in set forth. Second, I claim the annular grove, f, at the base of the feeding chamber, connected with an outer passage or passages for the ad-mission of air to that point, arranged and operating substantially as herein described and set forth. Third, I also claim providing in connection with the annular grove, t, the radial grooves, e.e. between the top of the fire-pot and the cap resting thereon, and communicating with the outside air by passages, d, the said grooves, e.e., between the top of the fire-pot and the cap resting thereon, and communicating with the lateral not ches, I i i, opening into the finame space or gaaces, E. F, for the introduction of air for admixture with the gases, substantially as herein specified. Fourth, I also claim the carp, G, or its equivalent, forming a con-nection betw een the kire-pot and feeding cylinder, when it conforms to be upper portion of the fire-pot, and external air is admitted un-derneath for the combustion of the gases, as herein set forth. Fifth, I also claim the arrangement of the products of combustion when claexel, substantially as set forth. Sith, I also claim, in combination with the supply cylinder, H, when open, and fire-pot, the flue pipe, T, connected at the bottom with the sath chamber, in such a manner that where the passage of the pipe is open it allows the site higher, the connected at the bottom with the sath chamber, in such a manner that where the passage of the pipe is open ti allows than here, pipe there once the sath t

1,410.—Banding Projectiles for Rifled Ordnance. (Div. 1, A.)—Edward Lindner, New York City. Patented

1,410.—Banning Projectices for Kined Ordnance. (DIV. 1, A.).—Edward Lindner, New York City. Patented July 30, 1861: I claim, first, The method, substantially as herein d scribed, of applying the malleable envelope or packing, first by casting it around and against the annular cavity in the body of the projectile, and then ex anding it by atmospheric or other pressure against the sides or interior surface of a finishing or forming mold or box. Second, the method of secaring the kint is leave in or around the body of the projectile, substantially as described.

1,411.—Cartridge for Small-arms. (Div. 2, B.)—Edward Lindner, New York City. Patented July 30, 1861 : I claim the stopper, d. introduced into the back and of the cart-ridge case, substantially as and for the purposes specified.

1,412.—Hot-air Registers.—E. A. Tuttle, Brooklyn, N. Y. Patented Jan. 3, 1854 : I claim so combining the connecting rod or arrangement which transmits motion to the fans with the fumb piece or attachment by which it is actuated, and with the fans themselves, that it shall rest and ride upon anti-friction bearings, o o, formed on the fans, sub-stantially as above described.

[This invention consists in forming anti-friction bearings on the

in so in hot-sir register, in such a manner that the power exerted in operating the apparatus shall not crowd directly against the journals and joints of the working parts, but shall be taken up to a great extent on these anti-friction bearings ; these bearings, by reas their peculiar form, enable the rod to slide easily upon them applied power is thus equally distributed, the fans turn naturally on their axes, there is not the usual friction in any portion of the me-mechanism—especially about the attachment by which it is actuated -and the entire apparatus works freely and smoothly, and requires ery little power to operate it.]

1,413.

rery little power to operate it.] 1,413. — A pparatus for mixing Gases. — Allen Walton, Phil-adelphia, Pa. Patented April 15, 1862 : I claim a chamber or mixing reservoir, G. so arranged as to inter-cept, for the purpose herein described, the continuity or uniform di-ameter of a distributing pipe, into which air and gas are introduced in definite quantities, and through which they are directed from a meter or meters to the burner.

DESIGNS.

19.—Design for a Statuette.—J. A. Bailly, Philadel-phia, Pa. 1,719.

1,720.—Design for a Lamp Chimney.—W. W. Sk ts (as-signor to Gideon Skaats), Brooklyn, N. Y.

NOTE .- 'The Patent Office is at present in most excellent working order, and the number of applicants for patents is constantly increas-ing. The above list contains the claims of SIXTY-EIGHT patents issued in a single week, and of this number TWENTY-SEVEN were conducted through the Scientific American Patent Agency .- EDS.

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HOW TO MAKE AN APPLICATION FOR A PATENT. Every applicant for a patent must furnish a model of his inve Every applicant for a patent must furnish a model of his invention if susceptible of one; or, if the invention is a chemical production, he must furnish samples of the ingredients of which his composition consists, for the Patent Office. These should be gecurely packed, the inventor's name marked on them and sent, with the Government fees, by express. The express charge should be pre-paid. Small models from a distance can often be sent cheaper by mail. The safest way to remit woney is by draft on New York, payable to the order of MUNN & CO. Persons who live in remote parts of the country can usually purchase drafts from their merchants on their New York cor-respondents; but, if not convenient to do so, there is but little risk in sending bank-bills by mail, having the letter registered by the postrespondents ; out, it not convenient to do so, there is out fittle Task in sending bank-bills by mail, having the letter registered by the post-master. Address MUNN & CO., No. 37 Park Row, New York. The revised Patent Laws, enasted by Congress on the 2d of March, 1861, are now in full force, and prove to be of great benefit to all par-

are concerned in new inventions.

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On filing each Caveat
On issuing each original Patent
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On filing sublication for Design, seven years
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The law abolishes discrimination in fees required of foreigners, ex the United States—thus allowing Austrian, French, Belgian, English, Russian, Spanish and all other foreigners except the Canadians, to enjoyall the privileges of our patent system (but in cases of de-signs) on the above terms. Foreigners cannot secure their in ven-tions by filing a caveat; to citizens only is this privilege accorded.

During the last seventeen years, the business of procuring Patents for new inventions in the United States and all foreign countries has the new interfaces in the onited states and an interface on the publication of the SCIENTIFIC AMERICAN; and as an evidence of the confidence reposed in our Agency by the inventors throughout the country, we would state that we have acted as agents for at least TWENTY THOUSAND inventors! In fact, the publishers of this paper have become identified with the whole brotherhood of inventors and patentees at home and abroad. Thousands of inventors for we have taken out patents have addressed to us most flatter ing testimonials for the services we have rendered them, and the wealth which has inured to the inventors whose patents were secured through this office, and afterward illustrated in the SOIEN-TIFIC AMERICAN, would amount to many millions of dollars! We would state that we never had a more efficient corps of Draughts. men and Specification Writers than are employed at present in our extensive offices, and we are prepared to attend to patent business of all kinds in the quickest time and on the most liberal terms

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Inventors will do well to bear in mind that the English law does not limit the issue of patents to inventors. 2 Any one can take out a patent there

Circulars of information concerning the proper course to be pur sued in obtaining fatents in foreign countries through our Agency, the requirements of different Government Patent Offices, &c., may be had gratis upon application at our principal office, No. 37 Park Row, New York, or any of our branch offices.



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A. P. K. Jr., of C. W.-Boghead coal is a peculiar cannel coal found in Scotland. It is very rich in oleflant gas and oil. 'Water lime" is hydraulic cement, and is so named because it becomes hard under water. It is employed as the cement for cis-terns, piers and concrete structures under water.

R. B., of Pa.-We were not aware that the shrunken band e Parrott gun had any such effect as you propose, and can find any authority for believing the recoil of a gun to be affected by the form of the breech. Any increase of weight will diminish the recoil, but we cannot understand how any form of the breech can

uch effect W. B. Le V., of Pa.-We have received your diagrams of the performance of two engines—one working steam at full stroke and the other cutting off at a point not stated—with descriptions at attached and thank you for your attention. We have discussed this subject very fully at different times and shall refer to it againshortly, for which purpo e we shall retain your evidence

W. L. T., of N. H.-By procuring one of our recently issued pamphlets you will obtain all the information you need in re-gard to caveats. Upon receipt of six cents we will forward one by ail to your address

- L. T., of Mass.-You state that your invention has been in use since 1859, that you have reason to fear some other party ha applied for a patent on it, and desire to know what are your right in this matter. This is theoid and oft-repeated story, several cases of the kind having within a short time been presented to us for our opinion. We have repeatedly stated in the columns of the SCIEN-TIFIC AMERICAN that the public use of an invention for more than two years prior to the application for the patent would invalidate the inventor's claim. You must, therefore, submit to this state of facts, and learn from it the truth of that old saying—" delays are dangerous and often fatal."
- J. H. A., of Conn.—Paper parchment is not manufactured in America. The best method of rendering paper water-proof is to soak it in boiled linseed oil and dry it thoroughly. It may also be rendered water-proof with copal varnish, but it is not so elastic as the oil.
- R. H. F., of Mass.-You may study all the books on engineering ever published and yet fail to become a reliable practical engineer. You must learn the business by actual practice first as a eman and then as an engineer.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, February 18, to Wednesday February 25, 1863 :--N. S., of Ind., \$25; M. A. J., of Mass., \$25; F. B. B., of Ill., \$30;

A. S., of Mu, \$25; A. A. J. of Mass., \$25; F. B. S., of Inf., \$50;
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\$15; Å: S., of Conn., \$25; W. H. M., of Mo, \$25; G. B. McD., of Ky.
\$17; E. B., of N. Y., \$20; F. W. R., of N. Y., \$10; W. K., of NY.,
\$25; M. F. G., of N. Y., 65; J. R. D., of Wis., \$20; G. S., of Mass.,
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