

ranged and in combination, operating as described and for the purposes set forth.

50,072.—Cooking Stove.—Marcus L. Horton, Claremont, N. H., assignor to Sidney Smith, Greenfield, Mass.:

I claim the E, with cap, A, and improved flue, C, as arranged and in combination, operating as described and for the purposes set forth.

50,073.—Coal Stove.—Zebulon Hunt, Hudson, N. Y., assignor to himself and Wm. J. Miller:

First, I claim the double flue, D D', in combination with the circular hot-air chamber or flue, F, when both are constructed and arranged in manner and for the purpose set forth.

Second, I also claim the bridge flue, H, in combination with the circular flue, G, when arranged substantially as and for the purpose set forth.

50,074.—Machine for Shaping Crimping Forms.—J. H. Jellison (assignor to C. and J. R. Pierce & Co.), Milford, Mass.:

I claim the combination and arrangement of the rotary cutter wheel, A, and its shaft, with the mechanism, substantially as described, for moving such cutter head vertically, either slowly or suddenly, as may be required, the whole being applied to a table, as explained.

I also claim the combination of the rotary cutter wheel, its shaft, the mechanism for moving the wheel, and the two carriers, E and E', made substantially as specified.

50,075.—Gas Burner.—Hugh L. McAvo (assignor to himself and E. S. Hutchinson), Baltimore, Md.:

I claim the gas burner provided, as described, with three or more parallel or nearly parallel slits.

50,076.—Apparatus for Carbureting Air.—Hugh L. McAvo (assignor to himself and E. S. Hutchinson), Baltimore, Md.:

I claim, First, The described gearing and shafting by which the motor shaft, O, is connected with the forcing wheel shaft, F, through a point in the side of the chamber above the fluid level.

Second, The air pipe, E, which supplies the air to wheel from the chamber in which the regulator operates.

Third, The described form of regulator, inclosing an air space between a cylinder and conical frustum, and whose sectional area of displacement is increased as it sinks in the fluid.

Fourth, The automatic valve, A, in combination with the chamber, A, pipe, C, and supply pipe, B.

Fifth, The valve, I, suspended from the regulator and controlling the lower orifice of the pipe, H, which supplies carbureted air to the regulator.

Sixth, The reservoir, Y, situated above the gas-generating chamber, and communicating therewith by the pipe, Z, guarded by the valve float in the chamber, D.

Seventh, The combination of the upper reservoir, Y, chamber, A, and regulator, B C, with the lower chamber, D, and air-forcing wheel, E, communicating with each other by the passages for fluid, air and carbureted air, substantially as described.

50,077.—Apparatus for Purifying Kaolin, Etc.—Thomas Moore, Cornwall, Conn., assignor to John Ellerby, New York City:

First, I claim passing the mineral to be dressed, in connection with a current or currents of water or other suitable liquid, through a drag or strainer, or their equivalents, having a series of one or more floor gates arranged in such a manner as to be opened and closed at pleasure, by means of which gates the said passage of the water with the mineral can be regulated according as may be necessary, substantially as herein described.

Second, Delivering the mineral, after having been dressed, in any proper manner, to one or more suitable receivers or tanks at or near the bottom thereof, substantially as and for the purpose specified.

Third, Removing the clay from the receivers of the cleansing or dressing apparatus, through any suitable opening or openings in the bottom of the same, substantially as set forth.

50,078.—Rocking Horse.—Leven C. Percival (assignor to himself and E. H. Deemer), Philadelphia, Pa.:

First, I claim the hobby horse constructed substantially as described—that is to say, supported underneath by a pivoted attachment to a standard erected on the wheels platform, the hind feet attached to the crank on the rear axle, while the forward parts are left free, substantially as described.

Second, The guiding bridle line connecting from the bit to a place near the pivotal point of the horse, and from thence with the forward axle, as described.

Third, The use of the swinging frame, x x, for lifting the platform, arranged as described, and for the purpose specified.

[This invention relates to a novel arrangement of a rocking horse, by the rocking movement of which its carriage is propelled, and consists principally in the steering devices for guiding the carriage in any desired direction, and also in the use of frames connected in such manner to the carriage that its wheels can be lifted from the ground, and thus the propulsion of the carriage prevented as the horse is rocked.]

50,079.—Leather Roller.—D. H. Priest (assignor to himself and B. S. Harrington), Boston, Mass.:

I claim, First, So applying the adjustable table as to allow it to rise and fall automatically with the various depths of skin about the roller or shaft.

Second, I claim the combination of the toggles and the levers with the adjustable bed, provided with a feeding roller and the winding roller or shaft.

50,080.—Cotton Gin.—Francis Durand (assignor to E. P. H. Gononlin), Paris, France:

I claim, First, The combined operation and arrangement of the two ginning rollers, A and B, the surface of the roller, A, of which is provided with series of inclined annular or endless elliptical corrugations or grooves, situated parallel to each other and the surface of the other roller, B, being smooth, the said corrugated or grooved roller acting in combination with the smooth ginning roller, C, provided with a slip of parchment, substantially in the manner and for the purposes set forth.

Second, In combination with the rollers, A, B, the general arrangement and combination of the parts, acting in concert therewith, substantially as described and illustrated in the annexed drawings, and for the purposes set forth.

50,081.—Process of Collecting Spirit During the Refining of Sugar.—Francis Reid, Liverpool, Eng. Antedated June 21, 1865:

I claim solely the collecting and saving of such spirit or alcohol as may be generated, and thrown off during the process of boiling or refining raw sugars, concrete, melado and molasses, substantially in the manner and for the purposes hereinbefore described and set forth.

50,082.—Manufacture of Gun Cotton.—J. J. Revy, Vienna, Austria:

I claim an explosive compound, made substantially in the manner and for the purposes described.

50,083.—Manufacture of Gun Cotton.—J. J. Revy, No. 28 Grosvenor Street, Eaton Square, Eng.:

I claim, First, The preparing the cotton for use, in the manufacture of gun cotton, by washing it in an alkaline solution.

Second, The process of dipping or steeping the cotton, as hereinbefore set forth, in small and regular quantities of the cotton being dipped, one after the other, in a dripping vessel containing a considerable quantity of acid, the contents of which are, after each operation, brought back to the proper strength by the addition of fresh acid, to compensate for that removed by the portion of cotton last dipped.

Third, The general arrangement of the apparatus hereinbefore described and shown in the annexed drawings.

Fourth, The separating the acid from the exterior of the gun cotton fiber by saturating the cotton with water and then again extracting this water by means of a centrifugal machine. Also the separation of the acid from the interior of the gun-cotton fiber by arranging the cotton in layers on suitable perforated shelves and causing water to filter or percolate through it.

Fifth, The treating gun cotton with water glass by means of a centrifugal machine, as hereinbefore described.

Sixth, The employment for treating gun cotton, of water-glass solution, in a cool, in place of in a boiling, state, as heretofore.

50,084.—Mode of Making Bars, Shafts, and Other Articles Composed of Iron and Steel.—Charles Sanderson, Sheffield, Eng.:

I claim the manufacture of railway bars, shafts, girders, ship plates, boiler and bridge plates, and other articles, from masses of wrought iron and cast steel, or of wrought iron and homogeneous iron or steel (made by and known as the Bessemer or pneumatic process), and the uniting of large masses of the above metals, in which the combination is effected, in the manner herein described.

50,085.—Apparatus for Preserving Beer and Other Liquids.—Thomas Byrne, New York City:

I claim, First, The preservation of liquids or liquors on draught, substantially as and for the purpose herein set forth.

Second, The application of a flexible vessel for containing, and from which to serve, liquors on draught, substantially as described.

50,086.—Chimney Cap.—E. Hinkley and G. W. Crowell, Cleveland, Ohio:

We claim the cap, A, the standard, D, and link, B, in combination with the plate, C, the several parts being constructed and arranged as and for the purpose herein set forth.

REISSUE.

2,073.—Manufacture of Iron.—John D. Williams, Alleghany City, Pa. Patented Aug. 8, 1865. Antedated July 9, 1865:

I claim the use of the ingredients herein named, and their equivalents, and the mode of using them, and the manner of operating the furnace, substantially as described, and for the purpose set forth.

DESIGNS.

2,173.—Bust of Abraham Lincoln.—Henry Manger, Philadelphia, Pa.:

2,174.—Carpet Pattern.—Elemir J. Ney (assignor to the Lowell Manufacturing Company), Lowell, Mass.

2,175.—Carpet Pattern.—Elemir J. Ney (assignor to the Lowell Manufacturing Company), Lowell, Mass.

2,176.—Carpet Pattern.—Elemir J. Ney (assignor to the Lowell Manufacturing Company), Lowell, Mass.

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Messrs. MUNN & CO.—I take pleasure in stating that, while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS. I have no doubt that the public confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the office, a marked degree of promptness, skill, and fidelity to the interests of your employees. Yours very truly, CHAS. MASON

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THE EXAMINATION OF INVENTIONS. Persons having conceived an idea which they think may be patentable, are advised to make a sketch or model of their invention, and submit it to us, with a full description, for advice. The points of novelty are carefully examined, and a written reply, corresponding with the facts, is promptly sent, free of charge. Address MUNN & CO., No. 37 Park Row, New York.

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The law abolishes discrimination in fees required of foreigners, excepting natives of such countries as discriminate against citizens of the United States—thus allowing Austrian, French, Belgian, English, Russian, Spanish and all other foreigners, except the Canadians, to enjoy all the privileges of our patent system (except in cases of designs) on the above terms. Foreigners cannot secure their inventions by filing a caveat; to citizens only is this privilege accorded.

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Parties sending models to this office on which they decide not to apply for Letters Patent and which they wish preserved, will please to order them returned as early as possible. We cannot engage to retain models more than one year after their receipt, owing to their vast accumulation, and our lack of storage room. Parties, therefore, who wish to preserve their models should order them returned within one year after sending them to us, to insure their obtaining them. In case an application has been made for a patent the model is in deposit at the Patent office, and cannot be withdrawn.

It would require many columns to detail all the ways in which the Inventor or Patentee may be served at our offices. We cordially invite all who have anything to do with patent property or inventions to call at our extensive offices, No. 37 Park Row, New York, where any questions regarding the rights of Patentees, will be cheerfully answered.

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Table with 2 columns: Fee description and Amount. Includes: On filing each caveat \$10, On filing each application for a Patent, except for a design \$10, On issuing each original Patent \$20, On appeal to Commissioner of Patents \$20, On application for Re-issue \$30, On application for Extension of Patent \$50, On granting the Extension \$50, On filing a Disclaimer \$10, On filing application for Design (three and a half years) \$10, On filing application for Design (seven years) \$15, On filing application for Design (fourteen years) \$30.

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