

IRON PAVEMENT—James Montgomery, of New York, N. Y.: I claim a street paving, presenting on its upper surface a series of ribs corrugated or winding in a horizontal plane, substantially as and for the purposes set forth.

HARVESTERS—James Willard Patterson and Levi Hanford Coburn, of Baltimore, Md.: We claim the combination of the cutting-knife, b, the bar, c, and projections, o, upon the guards, i, arranged substantially in the manner and for the purposes described.

COOKING-STOVES—Richard Peterson, of Philadelphia, Pa.: I do not claim, broadly, introducing jets of air at the rear of the fire in cooking stoves, various devices for accomplishing this end having been heretofore used, but I claim the protecting-plate, H, with its perforations, m, when arranged in respect to the oven, the fire-place and the flues of an elevated oven cooking-stove, in the manner herein set forth, so that the products of combustion, after passing from the body of the fuel, and at the point where they impinge against and are dispersed by the said protecting-plate, prior to passing some, and others under, the oven, may be met by and intermixed with jets of heated air for the purpose specified.

BEE-HIVES—William Powers, of Youngstown, Ohio: I do not claim, broadly, a bee-hive constructed with double walls, but I claim the cap or cover, C, of double walls, the inner one perforated as shown at e, e, and the space between filled with charcoal, in the manner and for the purpose specified.

[The object of this invention is to construct a bee-hive in such a manner that it may be perfectly exposed and still an even temperature maintained within it, thereby avoiding the use of bee-houses or apiaries. The hive, also, by its construction, being self-ventilating, and favoring the work of the bees, both as regards the storing and preservation of honey, and the propagation of their species.]

CLEANING CASTINGS—Andrew Ralston, of Middletown, Pa.: I claim the combination of flexible pickers, brooms or brushes having a reciprocating, alternate, or oscillating movement, with an elevating and depressing table, the whole being arranged, combined and operated as described and for the purpose set forth.

HARVESTERS—Andrew Ralston, of West Middletown, Pa.: I claim, first, The arrangement of the receiving-apron, d, sheaf-trough, e, compressing hook, u, and levers, h, i, and j, when used in connection with the horizontal and inclined gathering aprons, w, as described and for the purpose set forth. Second, The use of the shocking-carriage, o, furnished with a shock-chamber, having a movable bottom in two parts, p and q, as described and for the purpose set forth.

PEN-WIPER AND PAPER WEIGHT—John L. Rowe, of New York, N. Y.: I claim, first, The base or weight, A, with cup, j, attached, provided with the sponge, k, in connection with the pressure pad or sponge, i, connected with the base by means of the frame B, and arranged as shown and described, or in an equivalent way for the purpose set forth.

[To any of the ordinary paper-weights a cup or receptacle, in which a sponge or suitable absorbent is placed, is attached, and a frame in which the arbor of an absorbent pressure-pad is placed is fitted; the whole being arranged to form an excellent pen-wiper in connection with a paper-weight.]

ERASER AND PENCIL-SHARPENER—Archibald G. Shaver, of Hartford, Conn.: I claim the curved blade eraser with the circular edge pencil-sharpener, and the groove for finishing the pencil point, in combination, in the manner and for the purposes, substantially as set forth and described.

CRADLE-WAGON—George Smith, of Brooklyn, N. Y.: I claim as a new and improved article of manufacture, a cradle and wagon, substantially as shown and described, and operated substantially in the manner described.

[A child's wagon is by this invention made to serve the extra purpose of cradle merely taking off the wheels and draft-pole, and turning out the four wings which are jointed to the ends of the rockers that are attached to the bottom of the wagon, the wings forming part of the rocker when turned out and giving the cradle increased stability.]

COOKS FOR WATER-BASINS—Horace W. Smith, of Hartford, Conn.: I claim, the intermediate spindle, E, in combination with the vertical valve, H, in the manner and for the purpose substantially as set forth.

PROPELLER—Simon P. Snyder and George W. Cook, of Minneapolis, Minn.: We claim the arrangement and construction of a propeller, substantially as shown and described, the shaft of a propeller in relation to the boat in two directions as set forth. Also, the combination of a screw-thread on the propeller-shaft, with a screw-thread in the brace-plates forming the hub of the propeller, and with keys for the purpose of adjusting and fastening the wheel on the shaft, the whole being arranged as set forth.

ICE-PITCHER—James H. Stimpson, of Baltimore, Md.: I claim a double or treble-walled ice-pitcher, having its in-ide wall or shell composed of iron or other metal lined or coated internally with porcelain, as described, the same constituting a new article of manufacture.

[This improvement upon the well-known double and treble-walled ice-pitcher of Mr. Stimpson consists in making the inside wall of iron or other metal, coated with porcelain.]

COTTON-PRESSES—Uriah T. Stuart and Calvin E. Stewart, of Fayette County, Tenn.: We do not claim the invention of the rack-bar and pinion used in this invention, but we claim the combination of the rack and pinion with the rope and windlass for operating a press with two pressing-boxes constructed substantially as described.

MANUFACTURE OF SHOT—Charles B. Tatham, of Brooklyn, N. Y.: I claim the combination of the netting-pot, the regulating valve, the conductor, and the set pan, substantially as described, for dropping shot, as set forth.

LAMP-LIGHTERS—Leopold Thomas and Joseph Thomas, of Brooklyn, N. Y.: We claim the arrangement of a trigger, I, or its equivalent in such a relation to a serrated sector, K, and to a ratchet-wheel, G, that by the motion of the trigger, a piece of fuse from a roller, D, is fed up and lit, substantially in the manner and for the purpose specified.

And we also claim the arrangement of a continuous fuse in combination with the lamp, substantially as and for the purpose set forth.

[This invention consists in feeding a band which winds on a roller underneath the lamp, and which is prepared so that it takes fire by friction, up through a channel, and in such a position before the wick of the lamp that a short piece of this fuse, striking out over the top of the channel, is lighted by means of a serrated sector, which is moved by the same trigger which serves to operate the feed-wheel, and that by so lighting this fuse, light is imparted to the lamp.]

BLOCK-MACHINES—John Van Riswick, of Washington, D. C.: I do not claim the employment of two

cams, and plungers, or the disk provided with molds, nor do I claim the hopper at or near the periphery of the disk for feeding the clay immediately to the molds, as these devices are not new, but I claim the combination and arrangement of the carved or angular hopper, C, with the mold-disk, A, and vertically reciprocating plungers, D, whereby the upper plungers are caused to pass the hopper without lateral movement, in the manner and for the purposes specified.

GRAIN-CLEANING MACHINES—Hugh Wallace and William Mellon, of North Sewickly, Pa.: We are aware that cylinders, with shells or concaves, have been used before, for the purpose of pulverizing, rubbing or grinding substances, and wish it to be distinctly understood that we do not claim this.

But we claim the arrangement of the valve, b, ducts, D, and D', and sieves, w and r, substantially as described and for the purpose set forth.

SEED PLANTERS—George Watt, of Richmond, Va.: I claim the series of angular faced rollers, arranged relative to their shaft, as described, for opening the furrows, in combination with the seed tubes and covers, substantially as specified.

WATER WHEELS—Chas. Wells, of Monroeton, and Wm. Douglas, of Bradford county, Pa.: We claim the combination of the scrolls, H, vertical buckets, E, and lower buckets, G, the whole constructed and arranged as described for the purpose set forth.

CHURN—L. J. Wicks, of Racine, Wis.: I claim the arrangement in a square churn, A, which is provided with a ventilating top, of the shaft, G, inclined arms, [j j], cross-pieces, i, and funnels, k k k, the same being combined and operated in the manner and for the purpose specified.

APPARATUS FOR EVAPORATING FLUIDS—C. S. Wheeler, of Flowerfield, Mich.: I claim combining the evaporating pan, A, with the steam boilers, a a a, in such a manner as to cause the upper sides of said boilers to form highly efficient heating surfaces within said evaporating pan, substantially as set forth.

I also claim conducting the steam from the boilers, a a a, to the engine, which may be combined therewith, through the medium of a series of pipes, b b b C, d d d and e, which are so located that their peripheries form portions of the heating surface of the evaporating pan, but this I only claim when the said evaporating pan is combined with a series of steam boilers, substantially as set forth.

I also claim combining the spaces between the double bottoms of the clarifying pans, h h h, with the steam boilers, a a a, when the said pans and boilers are arranged with each other and with the evaporating pan, A, substantially as set forth.

I also claim the passing of the fluid to be reduced through a coil of pipe, l, located within the chimney or flue space before discharging the same with the clarifying pans, but this I only claim when the said clarifying pans are arranged with the evaporating pan, A, and the series of steam boilers, a a, substantially as set forth.

BURNING FLUIDS—Wm. Wilber, of New York City: I claim a fluid compound for burning in lamps, &c., made of coal-tar, camphene, and alcohol, substantially in the proportions and manner set forth.

PLOW—Solomon Williams, Jr., of Hmme, N. Y.: I claim the arrangement of the adjustable wheel, G, with the land-side, D, of the plow, substantially as shown and described for the purposes set forth.

[The object of this invention is to render, by a very simple means, the draft of the plow as light as possible by diminishing the friction attending the passage of the landside and moldboard through the soil, and also by the same means regulating the plow, so that it will form furrows of greater or less depth as may be desired.]

FIREMEN'S PROTECTOR—C. D. Woodruff, of Toledo, Ohio.: I claim the double walled sheet or plate metal house, D', and mounted on wheels B B, and provided with look-out holes d, and an adjustable plate e, to receive the nozzle or butt, g, the house being placed on rollers, i, in the platform and secured by buttons, j, or their equivalents the whole being arranged substantially as and for the purpose set forth.

Our firemen are often exposed to great danger, by the flames bursting out upon them while they are throwing water into a burning building, and they are often prevented getting as close to the fire as necessary by the heat. This invention is a fire-proof house on wheels, provided in front with a hole in a sliding plate through which the butt can be placed and the water directed to any spot. This can be placed close to the fire and the occupant will be protected from the heat and flames.

SEEDING MACHINE—E. O. Baxter, (assignor to himself, E. H. Riley, and W. T. Sweet,) of Forreston, Ill.: I claim first, The cam, n, one or more, attached to wheel, c, in combination with the jointed pendant, F, attached to the lever, E, substantially as and for the purpose set forth.

Second, The levers E E, connected together and arranged relatively with each other and the driver's seat, I, substantially as and for the purpose specified.

[There are a certain class of seeding machines, the slides of which are operated from one of the wheels which the machine is mounted; this invention relates to one of them. The object of this invention is to prevent by a very simple means the operation of the seed slides as the machine is backed. The invention also has for its object the arrangement of seed slide levers in such a manner, that they may be placed under the complete control of the driver, and any irregularity as regards the dripping of the seed which might ensue on account of the irregularities of the ground prevented.]

ELECTRO-MAGNETIC MACHINES—W. H. Burnap and J. A. Bradshaw, assignors to W. H. Burnap, of Lowell, Mass.: We claim applying the oscillating balance wheel, D, with its shaft, j, in line with, but detached from a rock-shaft, g, or its equivalent, carrying an arm, f, which derives a positive oscillating movement from the train of gearing, which derives the magnetic-electric machine, and connecting the spring, k, which is attached to said balance wheel, with the so arranged moving arm, substantially as and for the purpose specified.

[This invention consists in a certain novel and very simple and effective mode of applying an oscillating balance wheel in combination with a train of gearing actuated by a spring for driving a magneto-electric machine, whereby the velocity, of the rotary motion of, and the strength of the current produced by the machine are rendered uniform or nearly so throughout the whole of the time the spring is running out.]

BURGALAR ALARM—R. M. Campbell, of East Cambridge, Mass. (assignor to W. G. Crombie,) of Boston, Mass.: I do not claim a percussion alarm, a gmet or any such means of fastening the same to a door casing, but I claim, the application of the spring fastener G, to the alarm or its case, so as to be capable of sliding and turning with reference to the same, substantially in manner as specified.

ELECTRO-MAGNETIC FIRE ALARM APPARATUS—M. G. Farmer, of Salem, and W. F. Channing, (assignors to W. F. Channing, of Boston, Mass.: We claim the

independent keys, D E F, with their pins, d e f, in combination with the rack, A, and a means of liberating the rack for the purpose set forth.

Second, We also claim the arrangement of the segments on the circuit wheel, in combination with the springs or their equivalent for throwing the electric current successively on to different circuits.

Third, We claim the double circuit wheel or its equivalent for the purpose completing and interrupting an electric circuit at both ends, essentially as set forth.

TABLE CASTER—R. Gleason, Jr. (assignor to R. Gleason & Sons, of Dorchester, Mass.: I do not claim separately any of the parts shown and described, when separately considered, but I claim as a new and useful article of manufacture a caster, egg-stand and table bell, arranged and combined as shown and described.

[An egg stand, caster and bell are very prettily combined, so as to become an article of ornament as well as utility, and it can be used as a caster only or as a caster and egg stand; they are also placed on a support in such a way, that they are capable of revolving and the one foot serves for the three.]

EXTENSION TABLE—Thomas Gray, (assignor to himself and J. M. Sankey,) of Philadelphia.: I am aware that bars, so hinged together as to open and close, have been heretofore used in connection with extension tables, I do not therefore claim, broadly such device; but I claim, first, The method of constructing and of connecting together the two cross bars, H, and H', that is to say: constructing one bar, H, in two parts and connecting the two parts together by the two plates, e and e', which admit the bar, H', and afford a means of joining it to the bar, H', as set forth.

Second, The combination of the screw, J, block, G, bars, E, and F, and cross bars, H, and H', with the two ends of the table, the whole being arranged for joint action, substantially as and for the purpose set forth.

MACHINE FOR HEWING OUT HUBS—G. W. Miles, of Michigan City, Ind., and P. P. Lane, (assignors to Lane & Boddy, of Cincinnati, Ohio.: We claim, first, The described arrangement and combination of the axes, C C', stud shaft, I, and rotating rest, J, for hewing out cylindrical forms in the manner set forth.

Second, In combination with the above the ways, D D, carriage, E, feed arm, F, pawls, G, and rack, H, arranged and operating together substantially as and for the purposes explained.

REGISTER FOR SHEETS OF PAPER—John North, of Middletown, Conn. (assignor to himself and D. Appleton & Co.) of New York, N. Y.: I claim first, The attaching to the feed table of the printing press of two or more register points in addition to those commonly used for printing, so as to make register point holes in the sheet to be printed at the exact points required for the purpose of feeding the sheet in register to the folding machine to be folded.

Second, I claim the application for that purpose of the described mechanism, or other suitable mechanism of the same general description, attached to the feed table, frame and carriage of printing press, and which will produce the invented effect.

BEDSTEAD—Samuel McQuerns and William Lyon, of the District of Abbeville, S. C., Administrator of the estate of B. M. Lyon, deceased.: We claim the use of the hinges in the middle of both the cross and longitudinal rails, in combination with the hinges between the rails and posts, substantially as and for the purposes specified.

HANDLES FOR TABLE CUTLERY—J. W. Gardner, of Shelburne Falls, Mass. Patented Feb 1st, 1859.: I claim forming the handle of two parts, a b, which are encompassed at their junction by a ferrule, d, the tang, A, passing through both parts of the handle and the parts being secured thereon by a nut or washer, or a rivet, e, substantially as described.

[We noticed this invention on page 182, of this volume, SCIENTIFIC AMERICAN.]

DESIGN. TABLE BELLS—H. C. Foote, of Wallingford, Conn.

We notice in the List of Claims of Patents issued this week, the number of TWENTY-SEVEN were applied for through the Scientific American Patent Agency.

INVENTIONS EXAMINED at the Patent Office, and advice given as to the patentability of inventions, before the expense of an application is incurred. This service is carefully performed by Editors of this Journal, through their Branch Office at Washington, for the small fee of \$5. A sketch and description of the invention only are wanted to enable them to make the examination. Address MUNN & COMPANY, No. 37 Park-row, New York.

Progress of Patents.

As an indication of the prosperous condition of the Patent Office and of the vast amount of business that is being daily transacted with that institution by our ingenious fellow-countrymen all over the Union, we may state that from the Scientific American Patent Agency alone, during the last two weeks, ninety-two models of new inventions have been shipped to the Patent Office. Some agents, who do but a small business, are in the habit of sending models to Washington by sailing-vessels, once a month. But it is the custom of this establishment to forward models to the Patent Office every Saturday, by express. Our clients, therefore, need not fear that any one case committed to our charge will ever remain unacted upon for want of promptness on our part.

RUMOR is busy as usual, under such circumstances, in selecting a successor to Mr. Holt, to fill the office of Commissioner of Patents. The names of Hon. James Hughes, ex-Member of Congress from Indiana; Hon. Edmund Burke, formerly Commissioner of Patents; Hon. C. L. White, ex-Member of Congress of Pennsylvania; and Samuel T. Shugert, Esq., the present efficient Chief Clerk of the Office, are suggested. No appointment, however, has yet been made.

Correction.

In the description of the lock invented by O. B. Thompson, of Hudson, Ohio, and published by us on page 216, of the present volume SCIENTIFIC AMERICAN, from a want of correspondence between the description and model furnished us, there were some mistakes made that we hasten to correct. What are called "bars" are stiff springs attached to the upper ends of the guards to prevent any injury of the different parts from pounding or forcing the sliders, j, whenever the guards, g, are held back by the bar, H, or plate, b. Instead of a spring bearing against the lower end of each guard, g, the bar, H, when raised by the eccentric bit, T, drives the guards, g, back, and the sliders, j, out, so that the plate, b, may fall in slots, f, and the pin strikes in notch, c, of tumbler, C, so that whenever the plate, b, rests on the tumblers, f, the bar, H, holds the guards back, and whenever the projection seen on the left of the eccentric boss, S, raises the plate, b, above the guards, the bar, H, holds the tumblers forward. The only acting spring in the lock is the one on the main tumbler, C. The bits of the key should not screw into the plate, g, but are headed on their inner ends, and may be easily permuted by turning the plate, F, about a pivot in its outer end.

The American Union—One Grand Fizzle.

Startle not, kind reader—we do not mean Uncle Sam's sisterhood of States, but an association of individuals in this city who got together last autumn, over the charred remains of the Crystal Palace, fulminated a cloud of wrath upon the American Institute, notwithstanding its venerable years, and finally started a sort of opposition industrial fair, in a twelve-story building up Broadway; and after consuming considerable gas, candy and peanuts, besides some fuel, (about which there is a little dispute, on legal technicalities, in the matter of payment,) and after sundry arrests and examinations before the Honorable Justice Welsh, the enterprise came to a grand fizzle on Friday night last, at the Cooper Institute, amidst cries, cheers, hisses, and bah, bahs!

A New Idea.

The Connecticut River Railroad Company are making experiments with a passenger-car, whose propelling power is a small engine stationed at the forward end. The car will seat forty passengers and the apartment allotted to their use is entirely separate from the engine room, and perfectly free from annoyance therefrom. It is considered as a desirable and economical acquisition for short distances.

The manufacturing interests are rapidly improving.

Connecticut papers state that the factories at Waterbury, Ansonia, and Birmingham in that State, are working extra hours.

Literary Notices.

BLACKWOOD'S MAGAZINE—Published by Leonard, Scott & Co., No. 54 Gold street.—The present number of this able monthly contains a powerful leading article on Carlyle and his History of Frederick. "How we went to Sky," is a rattling literary performance, something in the old Christopher North style. The other articles, six in number, are, as usual, all good. "Old Maga" still maintains its high reputation among all its modern rivals.

THE BUILDER, AND THE PRACTICAL MECHANICS JOURNAL.—Messrs. Wiley and Hatstead, New York, Agents.—These foreign periodicals are held to be of great ability in their different departments. Those for January have been received, and contain a great amount of useful information to builders and mechanics.

THE ATLANTIC MONTHLY—Phillips, Sampson & Co., Boston.—The articles which compose the March number are excellent. "Holbein and the Dance of Death," and "A Plea for the Fijians" being the best.

ANECDOTES OF LOVE.—By Lola Montez—Dick and Fitzgerald, New York.—We did expect something new and fresh in a book with such a title and by such a lady, or at least the anecdotes would be well told, thought we. It is about as dull and stupid an affair as ever we looked at.

ETHEL'S LOVE-LIFE.—By J. M. Sweet, Rudd and Carleton, New York.—This is a very interesting novel, the story, which is a good one, being told in a simple, earnest way.

THE HOUSE: A POCKET MANUAL OF RURAL ARCHITECTURE.—Fowler & Wells, New York.—This is the last of "Rural Manuals," and like "The Garden," "The Farm," and the others, it is full of good, wholesome common sense observation and instruction. We should advise every one who thinks of building either a house or hen-roost to buy the book, and they will then learn the best way of doing it.