50,421.—Apparatus for Dessicating Eggs.—Charles A-Lamont, New York City, assignor to himself and David A. Burr, Washington, D. C.:

First, I claim the within-described mode of dessicating eggs, by the use, in combination with a dipping trough or vat. H, of one or more drying plates, as, secured upon a central revolving shaft, D, substantially in the manner herefu set forth. Second, The use of one or more scraping blades, c, in combination with the revolving plates of an egg-dessicating apparatus, substantially as and for the purpose set forth.

Third, Supporting the movable supplying trough, H, of my improved egg-dessicating apparatus upon adjustable ways, r, so arranged as to operate substantially in the manner and for the purpose herein set forth.

50,422.—Water-heating Apparatus.—John McCloskey (assignor to Henry McGuekin), New York City: First, I claim the water-heating apparatus above set forth, whereby different floors or apartments of a bouse or hotel may each have its own system of water-heaters, substantially as above described.

scribed.

Second, I also claim operating the water spaces of the inner and outer cylinders of means of an air space, substantially as and for the purpose above described.

[This invention consists in an arrangement of water-heating ap paratu3 for ranges and stoves, whereby the water for use in the kitchen and lower stories of a house is heated in, and supplied from a boiler or heater, independent of that in which water is heated for the higher stories. 1

50,423.—Hinge.—J. M. Riley (assignor to himself and W. A. Schmidt), Newark, N. J.:

First, I claim constructing a continuous door hinge, in the manner and for the objects herein described and represented.

Second, I also claim the key, D, of the spring rod, and its pins, h, be combination with the slot, V, of the tube, E, substantially as above

Second, I and the slot, V, of the tube, D, the semi-circular plate, J, described.
Third, I also claim the combination of the semi-circular plate, J, of the but, c3, with the key, D, of the spring rod, substantially as described.

[This invention consists of a spring door hinge, which closes the door by automatic action. It is of a length about equal to the door, and it is so made as to conceal the spring and the parts which actuate it, and are actuated by it, so that they are protected from the weather.]

50,424.—Sorghum Evaporator.—E.W. Skinner (assignor to himself and O. S. Willey), Madison, Wis.:
First, I claim the ledge, c. extending from one side nearly to the other of a pan of the construction specified, so as to form a contracted channel, C, for the introduction of the julce, and an outlet, d, to bring it in sudden contact with the boiling strup, 2ll as berein explained, and for the purpose stated.

Second. I claim the combination of the transverse cold-air ducts, D, with the wooden partitions, a a, as and for the purpose specified.

Third, I claim the combination of the hot-air[chamber, E, damper, F, cold-air duct, D, and chamber, b", all arranged as described.

F, cold-air duct, D, and chamber, b", all arranged as described.

50,425.—Wheel.—Joseph Stoliker (assignor to himself and J. H. McKenzie), Pine Run, Mich.:

I claim a metallic wheel for vehicles and for other purposes, provided with spokes arranged or applied to the rim or tire, so as to pass through a flange of the same, and connected at their inner ends to adjustable nuts or bosses on the hub, arranged in such a manner that the spokes may be strained or brought to a proper state of tension by spreading apart the nuts or braces, substantially as described.

I also claim the crossing of the wires forming the spokes, and the securing of the inner en.s of the same to rings, E, on the nuts, D D, in the manner substantially as set forth.

Ifurther claim the combination of the rim or tire, A, spokes, B, bub, C, nuts, D D, rings, E, and plates, F, with the nuts, G G, all arranged substantially as and for the purpose specified.

50,426.—MachineforFolding Paper Collars.—Emil Vossnack (assignor to himself and G. A. Goldsmith &

50,426.—Machine for Folding Paper Collars.—Emil Vossnack (assignor to himself and G. A. Goldsmith & Co.), New York City:
First, I claim the employment in a folding machine of the knife, B. and hard bed, A. with the shallow and rounded groove, a. so combined at to form the fold in the material, C. and condense the material on the exterior of the fold against the hard bed, substantially in the manner and for the purpose herein set forth.

Second, The combination of the freely falling knife, B, with the elevating and holding cams, e., and with a grooved bed, A. a., or its equivalent, a capted to compress and round the bend or fold in a paper collar or analogous weak material, all operating together substantially in the manner and for the purpose herein set forth.

50,427.—Pedestal for Railroad Cars.—I. P. Wendell and Stephen Ustick (assignors to I. P. Wendell), Phila-

Stephen Ustick (assignors to 1. F. wender, delphia, Pa.:

first, we claim the extension plates, B and B, constructed and arranged in relation to the arms, a.g. of the pedestal, and the journal box between the same, for the purpose of taking up the wear occasioned by the sliding of the said box, substantially in the manner hereinbefore described.

Second, Combining the adjusting conically pointed screws, C 0, with the arms, a, of the pedestal, and the extension plates, B and B, in conjunction with the screw, D, they being arranged and operating substantially in the manner and for the purpose set containing the extension plate, B and B, at the combination of the cushion straps, E, with the srms, a, of the pedestal, and the extension plate, B and B, substantially as described and for the purpose specified.

50,428.—Self-feeding Plugging Tool for Dentists.—Maximilian Burchardt, Berlin, Prussia:

I claim a selt-feeding plugging tool for dentists, made substantially as herein shown and described.

Also, the cavity, a, extending throughout the entire length of the tool, and operating in combination with the tongue, l, and with the plugging material, substantially as and for the purpose set forth,

50,429.—Gas Burner.—V. Dubourg, Paris, residing in the city of Frankfort-on-the-Main, Germany:
First, I claim the combination of the tube or chimney, a, of clay or analogous non-conducting material, and the upwardly projecting metal rim, f, arranged and operating as described.

Second, while disclaiming the general idea of applying a grate to a gas burner to equalize the pressure, I claim the particular combination, of the perforated and reticulated diaphragms, constructed and operating as specified.

50,430.—Perpetual Almanac.—William Gibson, Lanark, Scotland, assignor to Henry Baxter and John A. Fitch, Highgate, Vt.:

I claim the combination and arrangement of the perforated and unperforated disks, the ring and the slider, the whole being applied to a supporting standard or frame, and being made and marked substantially as described.

And in combination with the disks, the ring-supporting frame and slider, I claim the detachable piece, H. carrying the said box and the silder, the whole being substantially as and for the purpose specified

50,431.—Gas Burner.—Ferdinand Kup, Frankfort-on-the-Main, Germany: I claim an adjustable jacket or casing applied to a gas burner substantially as and for the purpose set forth.

The object of this invention is to arrange a gas buaner so that it

allows of regulating at will'the supply of atmospheric air required for imparting to the flame the greatest possible illuminating power. 50,432.—Breech-loading Fire-arm.—Westley Richards, Birmingham, England. Patented in England Sept-11, 1862:

11, 1862:
First, I claim the self-acting spring catch mounted on the tang of the breech-plate or on the top of the stock, and taking into a notch in a projection from the upper part of the barrels, or into a notch in the upper part of the barrels themselves, in substantially as described and independently of the position of the thump-piece or ever which actuates the said extend.

Second, The thump-piece, mounted on the tang of the breech plate or on the top of the stock, and actuating a spring catch, substantially as described, and independent of the position of the said catch, whether it be over or under the barrel.

Third, The self-acting spring catch, in combination with its thumb-piece, both mounted on the tang of the breech-plate, substantially as described.

Fourth, The inclined projection from the upper part of the barrels, entering a corresponding inclined recess in the breech-plate, so as to hold the two firing together, substantially as described.

Fifth, The making the axes on which the barrels turn in one solid piece with the body, substantially as described.

50,133.—Rifling Fire-arm.—A. Trauth, Chemnitz, Sax-

Ony:

I claim the production of rifle grooves with a trapezoidal cross section, and extending through the chamber of the barrel in a parallel direction, thence diminishing in depth and width to about the middle of the length of the barrel, more or less, and finally passing on with uniform depth and width to the muzzle, substantially as and for the purpose described.

and for the purpose described.

(0,434.—Ventilating Apparatus for Steam Vessels, Etc.

—John G. Woodward, St. John, N. B.:

First, I claim a ventilating casing around or contiguous to the moke-pipe funnel, substantially as set forth, so that the ventillating current of air may be induced by the heat of the smoke-pipe, as set forth.

smoke-pipe funnel, substantance.

In generate of air may be induced by the heat of the smoke-pipe, as set forth.

Second, I claim extending the ventilating casing above the top of the smoke-pipe or funnel to increase the radidity of the escape of the products of combustion from a id smoke-pipe, as set forth.

Third, I claim a partition or hood extending down in front of the furnace, at a short distance from the same, in combination with the ventilating casing around the smoke-pipe, as specified.

Fourth, I claim inclosing the boiler in a casing made of sheet metal a short distance from said boiler, leaving an air space, as set forth, said casing being removable in sections, as specified.

50,435.—Apparatus for Receiving and Distributing Mails on Railroad Cars.—Augustus Jordan, Washington,

50,435.—Apparatus for Receiving and Distributing mains on Railroad Cars.—Augustus Jordan, Washington, D. C.:

I claim, First, The shutter, B, opening and closing upon a horizontal axis, parallel with the direction of the car's movement, substantially as described.

Second, In combination with the shutter, B, the shelf, H, and partition, I, substantially as and for the purpose set forth.

Third, In combination with the shutter, B, the pinion, C, and rack, D. substantially as described.

Fourth, In combination with the partition, I, the set nut J, substantially as described and for the purpose set forth.

Fifth, Giving an automatic movement to the part or parts by which mails or packages are received into or delivered from railroad cars when in motion, by the stationary cam or camber rail, G, placed beside the railroad track rail, as described, in combination with the rod, E, and roller, F.

## REISSUES.

REISSUES.

2,083.—Corn Sheller.—Thomas D. Burrall, Geneva, N.
Y. Patented Dec. 6, 1845. Extended:
I claim, First, Theopening, d, in combination with the plate or disk, c, and the sheller, substantially as and for the purpose described.

scribed.

Second, The open space between the lower edge of the sheller and
the plate or disk, c, in combination with said plate or disk, and
the sheller, substantially as and for the purpose described.

2,084.—Forming and Punching Articles of Irregular Form.—Levi Dodge, Waterford, N. Y. Patented March 12, 1851.

Malul 14, 1891. claim as my improvement in the manufacture of axes and other icles of ron, punching the same when the part to be punched is losed in conforming dies made to open and close in the manner ein set forth.

herein set forth.

Second, I claim the combination of a punch with swinging matrices constructed and arranged relatively to each other substantially as herein shown and described.

Third, In combination with a punch and movable dies for punching and shaping articles of iron by their simultaneous action or pressure on the sides of said articles as described, I claim the employment of cams, or the equivalents thereof, to actuate automatically, the dies too pen and close, substantially in the manner and for the purpose set forth.

2,085.—Tobacco Pipe.—Abijah Fessenden, Boston, Mass. Patented Nov. 29, 1864:
I claim dividing the bowl of the tobacco pipe into three or more chambers, substantially as and for the purposes described,
2,086.—Obtaining Fibers from Waste Felted Fabrics.—
American Water-proof Cloth Company, assignee by mesne assignments of J. F. Greene. Patented April 12, 1859:

by mesne assignments of J. F. Greene.

April 12, 1859:
I claim subjecting the felts to be disintegrated to the successive and combined action of steam and picking, substantially as described, the steam having the effect either to unfelt or so loosen the hold which the fibers have on each other in felted fabrics that they can be drawn apart of sufficient length to be advantageously employed in the manufacture of relts or other fabrics.

Second, Also subjecting the felts which are to be disintegrated to the action of steam, for the purpose of loosening the fibers preparatory to the action of the machinery, as hereinbefore described.

Third, Also the application of salsoda or other equivalent chemical agent, in solution with heat, for the purpose of extracting the glue, mastic cement, or gums from the felts, in the manner hereinbefore described.

before described.

2,087.—Stone-cutting Machine.—George J. Wardwell, Rutland, Vt., assignor to the Steam Stone-cutter Company, New York City. Patented Nov. 10, 1865. First, I claim a stone-cutting channeling machine, which is constructed to move upon a track, and provided with reciprocating cutters, which are supported in standards, arranged on the outside of the frame and outside of the said track, substantially as described. Second, The combination of two or more cutters in gangs connected together by means of head and foot clamps, which are adapted to slide freely between standard guides, R R, that are supported on one side of the frame of the machine, substantially as described.

poried on one side of the frame of the machine, substantially as described.

Third, Providing for reversing the removable cutters, ', by hinging the outside standard, R, so that it can be opened or closed at pleasure, substantially as described.

Fourth, The combination of the vibrating beam, M, and reciprocating cutters, S, connected in such manner that the said beam operates upon the cutters in its ascending stroke, as well as in its descending stroke, bustantially as described.

Fifth, The combination of a spring, w, vibrating beam, M, and reciprocating cutters, S, substantially as described.

Sixth, The serrated cutter siems, in combination with the serrated head clamp, T, substantially in the manner described.

Seventh, The application of packing blocks, c', to the head and foot clasps, T U, substantially as described.

Eighth, The standards, R, arranged on the outside of a portable frame, A, substantially as and for the purposes specified.

Eighth, The standards, E. arranged on the outside of a portable frame, A, substantially as and for the purposes specified.

2,088.—Stone-cutting Machine.—George J. Wardwell, Rutland, Vt., assignor to the Steam Stone-cutter Company of New York. Patented Nov. 10, 1863:

First, I claim giving a forward or backward movement to the stone-cutting machine at pleasure, and simultaneously with the upard stroke of the reciprocating cutters, S, and confining said machine positively in position upon its track during the descending stroke of the said cutters, substantially in the manner described. Second, The double-acting feed arm, R; connecting rod, u, vibrating lever, r; combined and operating substantially in the manner described. Third, accelerating the descent of the cutters, S, by means of a spring, W, applied to the beam, M, substantially as described. Flouth, Connecting the cutters, S, to the beam, M, or its equivalent, by means of stope, g, f, substantially in the manner described. Floth, the lamber described and applied to the cutters, S, substantially as set forth. Sixth, Security the cutters together rigidly by means of clamps or clasps, which receive teeth or projections formed on said cutters, substantially as described.

# DESIGNS.

2,177, 2,178.—Hat.—D. K. Albright, Philadelphia, Pa., and L. H. DeLange, Bordentown, N. J. (Two cases.)

2,179.—Trade Mark.—John Ames, Lansingburgh, N. Y. 2,180.—Frame of a Sewing Machine.—Joseph W. Bartlett, New York City.

2,181.—Trade Mark.- James P. Baxter, Portland, Me. 2,182.—Sun Dial.—N. Carroll, Philadelphia, Pa.

2,183.—Stock of a Cistern or Well Pump.—Leonard Egleston (assignor to Rumsey & Co.), Seneca Falls, N. Y.

-Copying Press .- Robert Hoe, Jr., New York City

,185, 2,186.—Cook Stove.—Henry S. Hubbell and Alfred S. Hubbell, Buffalo, N. Y. (Two cases.)

2,187, 2,188.—Parlor Stove.—Henry S. Hubbell and Alfred S. Hubbell, Buffalo, N. Y.

2,189.—Movement Frame of a Clock.—Laporte Hubbell, Bristol, Conn.

2,190.—Clock Front.—G. S. Lovell, Philadelphia, Pa.

2,191.—Trade Mark.—Augustus C. Mueller, St. Louis, Mo., assignor to Heller & Teibrock, Mascoutah, Ill 2,192.—Carpet Pattern.—Francis J. Peirce (assignor to the Roxbury Carpet Company, Roxbury, Mass.

,193.—Floor Oil-cloth.—Albert E. Powers, Lansing-burgh, N. Y.

2,194.—Bust of Gen. Grant.—Louis Rebisso, Buffalo, N. Y.

2,195.—Gi City. Group of Statuary.—John Rogers, New York

2,196.—Plates of a Cook Stove.—Isaac A. Sheppard, Philadelphia, Pa.

2,197.—Reed Organ Case.—J. L. Treat (assignor to Treat, Lindsley & Co.), New Haven, Conn.

2,198.—Cook Stove.—Nicholas S. Vedder, Troy, N. Y., assignor to Tibbals, Shirk & Whitehead, Chicago, 111.

2,199.—Trade Mark.—A. H. Wirz, Philadelphia, Pa. 2,200.—Coach Lamp.—Chas. B. Wood, New York City.

B

# ATENTS

FOR SEVENTEEN YEARS.

MUNN & COMPANY,

ction with the publication o the SCIENTIFIC AMERICAN, have act ed as Solicitors and Attorneys for procuring "Letters Patent" for new inventions in the United States and in all foreign countries during the past seventeen years. Statistics show that nearly ONE-HALF of al the applications made for patents in the United States are solicited through this office; while nearly THREE-FOURTHS of all the patents taken in foreign countries are procured through the same source. It is almost needless to add that, after eighteen years' experience in pre-paring specifications and drawings for the United States Patent Office, the proprietors of the SCIENTIFIC AMERICAN are perfectly con-versant with the preparation of applications in the best manner, and the transaction of all business before the Patent Office; but they

take pleasure in presenting the annexed testimonials from ex-Com MESSRA, MUNN & CO.:—I take pleasure in stating that, while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE MUSINESS 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 or promptness, skill, and fidelity to the interests of your employers. Yours very truly,

[See Judge Holt's letter on another page.]

[See Judge Holt's letter on another page.]

Hon. Wm. D. Bishop, late Member of Congress from Connecticut, succeeded Mr. Holt as Commissioner of Patents. Upon resigning the office he wrote to us as follows:

MESSES, MUNN & Co. —It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business or inventors before the Patent Office was transacted through your agency; and that I have ever found you faithful and devoted to the interests of your clients, as well as eminentry quantied to certorm the duties of Patent Attorneys with skill and accuracy.

Very respectfully, your obesident servant, WM. D BISHOP.

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Persons having conceived an idea which they think may be patent ble, are advised to make a sketch or model of their invention, and submitit 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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ft would require many columns to detail all the ways in which the Inventor or Patentee may be served at our offices. We cordially in the have anything to do with patent property or inventions our extensive offices, No. 37 Park Row, New York, where any questions regarding the rights of Patentees, will be cheerfully

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L. S. C., of N. Y.—On pages 82 and 83, Vol. XII, SCIEN-TIFIC AMERICAN, you will find a long article from Mr. Bulkley, giving precisely the information you ask for in regard to season

W. G., of Mass.—There are several patents for station indicators operating as you state.

E. T. H., of Pa.-We have written you two letters, addressed to the Philadelphia Post-office. You omitted to give us the

C. D., of N. Y .- Among the opticians of this city are Guisseppe Tagliabue, No. 228 Pearl street; Benjamin Pike & Sors No. 518 Broadway; Benjamin H. Horn, No. 212 Broadway, and Fugh W. Hunter, No. 169 William street.

G. W. D., of Ohio.-Nearly all the metals if melted in contact will mix together and form alloys, and several of the metals, if not melted, will combine with mercury, forming amalgams. The mercury, being very volatile, is driven off by heat, while the other metal is left behind. Zinc, also, being more volatilo than copper, is pattially driven out of brass by a high heat.

G. G. W., of Ohlo,-Your plan for raising the cable over the deck of a vessel as the vessel moves along, is simply the method of 'under-running" which has been extensively practiced.

H. H., of Pa.-You can buy of india-rubber dealers a cement for fastening the gum to wood or other substances. It is made by dissolving pure india-rubber—not the vulcanized—in spirits of turpentine

G. McD., of N. Y .- The electro-plating process will enable you to put on as thin a film of silver as you desire, much than by any other known method.

J. H. H., of Md.-You will do better to carry your steam pipé to the barn where the engine is than to run a line of shafting 100 feet. The loss of pressure will be nothing at all. The whole of the northern and eastern side of London is below high-

M. E. E., of Kansas.—A machine to change centripetal to centrifugal force, or the reverse, would not be of the slightest utility, whether with or without toggle joints. Any one who has practicable machine is sure to make a toggle joint in it.

J. B. C., of Ind.-For a portable engine we refer you to J. C. Hoadley, Lawrence, Mass. For a shingle machine, to Franklin Krum & Co., Albany, N. Y.

C. E. K., of Conn.-All clocks run while being wound up, so far as we know. We wind one every night, but never noticed that it stopped during the operation. There would, therefore, not be much use in applying the spring as you propo

C. A. B., of Pa.—By referring to the numbers of the Scientific American within the past six months you find that the subjects of steam plowing and cotton cultivation have been discussed.

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