

latter being provided with the ratches, d k, into which the pawls, e l, catch, substantially as and for the purpose set forth.

[The object of this invention is to obtain a facile mode of adjusting the straps of the skate, so that the latter may be quickly and snugly secured to the foot, and also readily detached therefrom.]

25,994.—Thos. Bishop (assignor to himself and James M. Bishop), of Plainville, Conn., for an Improvement in Tea and Coffee Pots:

I claim the arrangement of the area, E, flanges, X, upon the lid, G, with the apertures, F and D, in the manner as and for the purpose described.

25,995.—D. G. Chase, of Boston, Mass., assignor to George Parr, of Buffalo, N. Y., for an Improved Shank-laster:

I claim the jointed cross bars, A A, provided with the swivel jaws, E F, and swivel nuts, a, in connection with the right and left screw shaft, C, the whole being arranged substantially as and for the purpose set forth.

[This invention relates to a new and improved shank-laster, an implement or tool used by shoemakers for drawing leather over lasts. The object of the invention is to enable the leather to be drawn on the last and tacked thereto with greater facility than usual.]

25,996.—John Colville, of Wilmington, N. C. (assignor to himself and T. L. Colville, of same place), for an Improved Method of Adjusting Circular Saws:

I claim the expansion ring or plate of copper, G, or any other suitable metal capable of being expanded, for setting or adjusting the saw properly upon the shaft at any given point or points, when the same is interposed between the saw and fixed collar, as set forth.

25,997.—Wm. Elwell, of Gardiner, Maine (assignor to himself and N. O. Mitchell, of same place), for a Fly Trap:

I claim the two boxes, A A, of a quadrangular or other shape, provided with sliding glass tops and sliding bottom, G, in combination with the perforations, B, surrounded with projecting pins for the purpose as and when the same are all arranged in the manner set forth.

[This invention and improvement in traps for ensnaring flies consists of two quadrangular boxes, each of which is furnished with a sliding glass top, for inducing the flies to pass from the lower to the upper box after they have been caught, for killing them with the fumes of sulphur or other suitable substance, a provision being made for this purpose in the upper box. The lower box contains perforations through its sides, the holes being surrounded by pointed pins, so as to permit the flies to readily pass through the holes, but prevents their escape when once in. The bait will be molasses, or anything sweet and attractive, which is placed in a sliding drawer.]

25,998.—John A. Everts, of West Meriden, Conn. (assignor to Homer Curtis, of same place), for Improved Cast-metal Pulleys:

I claim forming the core, D, of the shell, B, by covering the wheel, A, with the sand, b, and having the hole, c, made through the core, so that, in casting the shell, the pulley or axis, E, of the wheel will be cast simultaneously with the shell, and the wheel, when the sand, b, is removed, be properly adjusted with the shell substantially as described.

25,999.—John Jewell Flanders, of Manchester, N. H. (assignor to himself and E. G. W. Bartlett, of same place), for an Improvement in Rotary Pumps:

I claim the combination of the revolving annular inverted gear, the plunger, S, and stationary crescent, U, the whole being arranged to operate in the case substantially as described for the purposes set forth.

26,000.—H. K. Symmes, of Newton, Mass. (assignor to himself and R. W. Holman, of same place), for an Improvement in Apparatus for Manufacture of Coal Oil:

I claim, first, An oil retort, A, in combination with the gas retort, D, or its equivalent, for the purpose of saving the gas which escapes from the oil retort, and to improve its quality, substantially as specified.

Second, In combination with the two retorts, A and D, I claim the pump, G, or its equivalent, for the purpose of imparting to the gas the necessary pressure, substantially as set forth.

26,001.—Isaac Goodspeed, of Norwich, Conn. (assignor to himself and George A. Mansfield, of Boston, Mass.), for a Pocket Alarm:

I claim the pocket, thief and burglar-alarm, constructed in the form and manner represented and described.

I also claim the combination and arrangement of the independent lever, K, adapted to cap and cock the alarm, and while both the cap and hammer are arranged within, and do not project outside the shell or case.

26,002.—Stephen H. Head, of Boston, Mass. (assignor to himself and Wm. P. Parrot, of same place), for an Improvement in Steam-boilers:

I claim, in combination with the furnaces, B C, and the lateral passage, E, and damper, e, chamber, F, located at the front of the furnaces, and between them and flues, for the purpose and in the manner substantially as set forth.

26,003.—George M. Phelps, of Troy, N. Y. (assignor to the American Telegraph Company), for an Improvement in Telegraphing-machines:

I claim, first, Producing from a magneto-electric battery, the momentary electric currents required for actuating the printing-mechanism by giving momentary motion to the armature or other current-inducing part of the magneto-electric battery, by means of a set of finger-keys, which, when depressed, are controlled in their action upon the current-inducing part of the magneto-electric battery by a mechanical contrivance which constantly moves in harmony with the unintermittently-revolving type-wheel, substantially as described.

I also claim increasing the capability of the instruments for telegraphing by so increasing the speed of the transmitting-device and type-wheel, in relation to the motion of the parts which perform the printing, that two or more types shall pass the platen while the printing-mechanism is acting once, as described.

I also claim turning the cylindrical platen while each impression is being made, by means of rings of teeth, R and T, upon the type-wheel and platen, as and for the purpose set forth.

And, finally, I claim making a revolving wheel or shaft, U, or i, turn the corrector, M, armature, C, or another wheel or shaft, a certain fixed distance, with the same speed as itself, at any time and any desired number of times, by the use of a ratchet-wheel, V or h, catch, W or f, guide, X or k, and detent, K or e, all arranged together, and, with the said driving and driven wheel or shaft, for conjoint operation as set forth.

26,004.—Charles A. Gale, of Boston, Mass. (assignor to Albert S. Hall, of Malden, Mass., and A. R. Davis, of Cambridge, Mass.), for an Improved Clothes-dryer:

I claim the combination, substantially as described, of the mantle r and the folding slats, arranged and operating as set forth for the object specified.

RE-ISSUES.

William M. Griffith & Co., of Martin's Ferry, Ohio (assignees of William H. Orr, of said Martin's Ferry), for an Improvement in Machines for Cleaning Grain. Patented July 13, 1859; re-issued Nov. 1, 1859:

We claim the arrangement and application of the stirrer, K, in the described relation to the riddle or shoe of a grain-separating machine, operating in the manner and for the purpose set forth.

E. K. Root, of Hartford, Conn., for an Improvement in Revolving Fire-arms. Patented Dec. 25, 1855; re-issued Nov. 1, 1859:

I claim combining the driving-pin that works in the grooves to rotate and hold the breech in line with a slide below adapted to the reception of and to be operated by the trigger-finger, and acting on the lock on the end of the back motion, to liberate the cock or hammer, and discharge the load, substantially as described.

And I also claim combining the plunger with the many-chambered rotating-breech pistol or other fire-arm, by means of a lever with a cogged sector engaging the cogs of a straight rack, substantially as and for the purpose specified.

DESIGNS.

Charles T. Foot, of Bristol, Conn., for a Design for Clock Cases.

Thomas Hardgrove and Samuel Hardgrove, of Richmond, Va., for a Design for a Trade-mark.

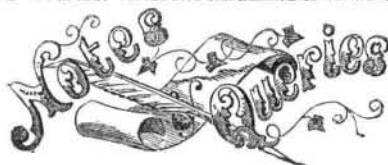
Allen Leonard, of Hartford, Conn., for a Design for a Base for Casters.

Allen Leonard, of Hartford, Conn., for a Design for Caster Handles.

William H. Lewis, of Glastenbury, Conn., for a Design for Fork or Spoon Handles.

Garretson Smith and Henry Brown, of Philadelphia, Pa. (assignors to Cox, Whitman & Cox, of same place), for a Design for Stoves.

NOTE.—In our last number, we took occasion, in referring to the number of patents issued last week, to indicate the large proportion of cases which passed through this office. In summing up the patents granted this week, ending Nov. 24, we find the whole number to be SIXTY-EIGHT, of which TWENTY-EIGHT (or nearly one-half) were secured through the agency of Munn & Co., publishers of this paper.



W. H. W., of Pa.—We will attend to your request next week.

W. S., of Ill.—Water can be boiled by forcing heated air into it through a pipe. Cane juice has been evaporated in this way, but for making white sugar the process is objectionable, as the dust in the air gives the sugar a slightly greyish tinge.

A. C. F., of Penn.—You say that the grooves of the Enfield rifle twist once round in the length of the barrel instead of one-half, as stated on page 255 of the present volume of this journal. Our minute description was copied verbatim from one of the English mechanical papers.

G. F. J. C., of N. C.—You could not procure a patent for the use of vulcanized india-rubber in place of ebony for the manufacture of the black keys of the pianoforte key-board. The mere change of substance is not patentable.

P. F. of Ohio.—We have carefully examined the sketch of your alleged improvement in mowing-machines, and we fail to discover in the arrangement anything new or patentable. The same device is covered in the patent of Fitzhugh. See page 28 of the present volume.

G. C., of Wis.—You will find a notice of the suit of Hussey vs. McCormick on page 225 of this journal. Hussey claims the combination of the open slotted finger and scolloped sickle. The case went against McCormick, and we have good authority for asserting that he has since recognized Hussey's claims to this device.

H. H., of Mass.—It will be of no use for you to press your views upon our consideration any further. We do not believe your discovery will ever amount to anything valuable; we could not, therefore, endorse it. Your professed willingness to pay has no effect upon us. Our columns are not open to "paid puffing."

D. D. F., of N. Y.—Your proposed method of applying water power to two valve buckets connected with a lever and drum, to produce a reciprocating motion, appears to be similar in principle to that of Mr. E. Bishop's, illustrated on page 312, Vol. II. of the SCIENTIFIC AMERICAN.

S. E. S., of Iowa.—The patent of Messrs. Pierce & Beardsley, for a new method of tanning, is not what is called the "short process." It is only a more simple and superior system of using other tanning substances than the extract of bark. We have seen good leather made by it; and believe that the time is not far distant when such processes must come into general use.

W. C. L. R., of Ala.—We believe it would be an economical operation to introduce gas and water by pipes into your institute. The best method of drying your clothes is by a centrifugal drying machine; but if you were to convey the heat of the fires in the boiler furnaces of your wash-house, by flues, into a long drying room, you might dry all the clothes of your boarders by the waste heat which now escapes up the chimney.

A. M., of N. Y.—Silicate of soda is unfit for plugging teeth. You can reduce an acidulous solution of gold by evaporation; the moisture will pass off in the form of steam and leave the dry oxyd. You can do the same with cyanide of gold.

B. F. M., of Ind.—The protective power of a lightning-rod depends upon the quality of its metal, its thickness, length and perfect continuity from the apex to the moist earth below. The earth owes its conducting power to the moisture which it contains, and the conducting power is increased with the quantity of mineral salts in the moisture. Pure water is a very poor conductor, salt water a very good one. A lightning-rod of 3/4-inch square iron and 40 feet high, if carried down into the moist earth below, will not have its conducting capacity reduced.

M. & B., of Ill.—The enamel to which you allude on iron vessels and registers is composed of the same ingredients as porcelain, and is fused on the metal in a kiln. A white enamel is composed of two parts of ground glass, two of calcined tin and one of bo ax, all fused together, and poured into water when taken from the furnace. It is then ground in water to a paste, and applied to the metal with a brush. The iron must be scoured clean before this enamel paste is put on, or it will crack off easily afterwards. Calcined lead, employed as a flux in the enamel paste, enables it to fuse at a low heat; but it never should be used in culinary vessels, as it is poisonous, and liable to be decomposed by vegetable acids. The red, blue, green, and other colored enamels are formed with mineral oxyds; such as oxyd of iron for black, oxyd of copper and chrome for green, oxyd of gold and manganese for purple, and pure oxyd of gold for a beautiful red.

S. A., of La.—You will find an illustration of Fawkes' steam plow on page 167 of the present volume. He has secured a patent for his improvement. In the construction of a steam plow you will, upon reflection, perceive that invention can rest only upon certain minor details in adapting or combining a steam carriage and plows to this purpose. You are not correct in assuming that, comparatively, nothing has been done in this branch of improvement. Several modifications have been patented in England, and the subject has received a good deal of attention in that country. The scarcity of field hands has rendered it a desirable acquisition to the English farmer.

F. R., of Va.—Liverpool salt contains about 98 per cent chloride of sodium, two per cent muriate of lime and magnesia and a trace of sulphate of lime. The fine white Cheshire table salt contains 99.80 per cent chloride of sodium; it is very pure. Turks' Island salt is about as pure, but we do not know the percentage of chloride of sodium in Virginian and New York salt.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Nov. 5, 1859:—

T. S. B., of N. Y., \$25; D. R. L., of Miss., \$20; A. H., of Texas, \$15; D. W. C., of N. Y., \$15; A. F., of N. Y., \$55; L. A. B., of N. Y., \$30; W. W. W., of Conn., \$30; W. T., of Mass., \$25; M. F., of Ind., \$25; H. M. S., of Maine, \$25; J. J. A., of N. C., \$30; O. S., of N. Y., \$30; J. C. W., of Ill., \$30; G. M. A., of Ill., \$30; A. L., of Mich., \$30; M. & A., of R. I., \$25; C. R. K., of Pa., \$15; S. E. C., of Mass., \$30; A. E., of Ohio, \$25; W. B. G., of N. Y., \$30; B. & B., of Tenn., \$30; W. C. C., of N. Y., \$25; G. W. M., of Tenn., \$30; F. S. M., of N. Y., \$30; W. B. D., of Conn., \$30; J. G. of Conn., \$30; J. S. C., of Pa., \$30; H. B. J., of N. J., \$30; C. P. B., of Ohio, \$25; J. R. E., of La., \$30; B. M. C., of Mass., \$25; M. & H., of Mass., \$30; S. B. C. & Co., of N. Y., \$250; C. C., of Iowa, \$25; S. S. G., of Mass., \$30; G. B. M., of Mich., \$25; N. D., of N. J., \$30; A. L., of Ga., \$30; J. T. P., of N. Y., \$55.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Nov. 5, 1859:—

W. T., of Mass.; J. E. C., of Mass.; T. S. B., of N. Y.; J. W., of N. Y.; M. F., of Ind.; C. C., of Iowa; C. P. B., of Ohio; A. F., of N. Y.; J. H., of N. J.; W. E. S., of N. Y.; A. A., of N. Y.; A. H., of Texas; G. A. L., of Mich.; R. F., of N. J.; G. B. M., of Mich.; O. M. A., of N. Y.; O. S., of Mass.; E. A. W., of L. I.; A. E., of Ohio; J. Y. S., of Pa.; M. & A., of R. I.; J. C. G., of Cal.; W. C. C., of N. Y.; B. M. C., of Mass.; H. M. S., of Maine; W. & R. F., of N. Y.; G. M. A., of Ill.

Literary Notice.

UTILITY OF THE SLIDE-RULE. By Arnold Jilson, of Woonsocket, R. I.

This is a neat pocket companion for the operative-mechanic, being a treatise on instrumental arithmetic. By its aid, manufacturers, artisans and operatives can make their own calculations; and without the loss of time and perplexity of the ordinary mathematical process. A portion of the volume is devoted especially to matters pertaining to the cotton manufacture, and will be found both instructive and valuable. For sale by the author.

Hints to our Patrons.

BACK NUMBERS.—We shall hereafter commence sending the SCIENTIFIC AMERICAN to new subscribers from the time their subscriptions are received, unless otherwise directed; the back numbers can be supplied from the commencement of the volume to those who may order them. It is presumed most persons will desire the back numbers, and such as do will please to so state at the time of sending in their subscriptions; they can, however, be supplied at any subsequent period.

INFALLIBLE RULE.—It is an established rule of this office to stop sending the paper when the time for which it was prepaid has expired, and the publishers will not deviate from that standing rule in any instance.

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RHODE ISLAND AGENCY FOR PATENTS.—R. H. J. H. ATWATER, Providence, will sell Patent Rights, and solicit orders for Patent Articles, by agents and advertising. Will exchange circulars and references with patentees. 30 5th

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A pamphlet of information concerning the proper course to be pursued in obtaining Patents through our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. We also furnish a Circular of information about Foreign Patents.

The annexed letters from the last two Commissioners of Patents we commend to the perusal of all persons interested in obtaining Patents:—

Messrs. MUNN & CO.:—I take pleasure in stating that while I held the office of Commissioner of Patents, your firm was the only one that I have not the honor to have had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and I doubt not, justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully,

CHAS. MASON, Postmaster-General of the United States, he addressed to us the following very gratifying testimonial:—

Messrs. MUNN & CO.:—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and I doubt not, justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully,

Your obedient servant, J. HOLT, Commissioner of Patents, addressed to me as follows:—

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