

TO CORRESPONDENTS.

W. E. C., of Mass.—The employment of a steel rod for a door-spring, in the manner shown in your sketch, you will find illustrated in the "Glasgow Practical Mechanic's Journal," 1850.

J. B. W., of S. C.—We are not in the habit of giving opinions upon questions of infringement.

E. M., of Pa.—We are glad to learn of the success of your invention, it seems to be a good thing.

C. McM., of Mass.—Personally we cannot say anything about Dr. Brainard's eye cups, and we would not like to give advice unless we were positively sure of their qualities; we must be cautious about such matters.

E. H., of Pa.—The use of air tubes is much older than the magazine to which you refer. You could not secure a patent for it. After your patent is issued for the "Stack" we can publish engravings of it upon receipt of the Letters Patent.

E. B., of Wis.—We do not see anything new in the sketch which you send of Trusses.

J. T. O., of Ala.—The passing of the feed water through the furnace is a bad plan: on reflection you will come to the same conclusion. We shall have something new on furnaces, next week. The greatest heat should be applied nearest to the steam space.

J. D. C., of Ind.—Black lead is not manufactured, it is found native, and is called graphite. There are large deposits of it in New Hampshire, and other places.

W. R. M., of Ind.—Yours has been received.

F. H., of Ohio.—There is no tin plate manufactory in the United States. There is no reason why tin plates cannot be manufactured here; but the question is, "can they ever be made as cheap as in Wales?"

J. R., of Mich.—You must send us a better description of your marine governor; we cannot, from your letter, understand what you mean.

W. B. S., of Phila.—We have never seen a pipe running through a steam ship, and employed for a condenser; but it has been proposed to us to use the lowest section of iron pipes for this purpose.

C. McC., of —.—We cannot advise you in regard to the planetarium, we suppose it not a very profitable matter to engage in. The calculating machine is simple, and we think new—you had better send us a model.

T. T., of R. I.—We do not know where you can get pure plumbago—it is very difficult to obtain, and frequently there is great trouble experienced with our electricians, Daniell's battery is used, and the excitant is the sulphate of copper and glaubersalts. The Ocean Telegraph, without a wire, we are afraid, would be more expensive than laying down a cable. Give all these things, in relation to economy, your careful consideration.

J. N., of S. C.—You will find in this week's number a description of the same device as you describe.

J. H. S., of Pa.—A parcel containing your engraving and 12 copies of the Sci. Am., were sent to you by Harnden's Express on the 15th inst—before your letter containing \$1 was received. The "Illustrated News" has taken an electrotype of the engraving, and will no doubt publish it.

W. N. S., of N. H.—Your explanation is very satisfactory. We should feel obliged for the receipt.

S. L., of Pa.—We avoid all speculations in inventions. We have no desire to become interested in any patent, we leave that to others.

W. H. C., of Ill.—You can sell an invention before the patent is issued. Applications are examined in classes, no one can tell how long it might remain in the office before examination, all depends upon the amount of business in the department.

H. S., of Ky.—Your agent has called upon us several times, we intend to publish the "anchor" soon, the "saw doctor" we have been unable to discover among the mass of articles on exhibition.

E. T. S., of Pa.—The plan you propose for ventilating cars is not new. Mr. Heckrote, of this city, invented the same thing more than two years since. We believe it incapable of performing well.

D. F. F., of Pa.—There is no novelty in a double flanged car wheel. We cannot recommend an application for a patent.

J. C. R., of Iowa.—Without the aid of drawings we cannot clearly explain the construction of Porter's Rifle. We do not know where the Prussian Needle Gun can be purchased. We are not aware that any changes have been made in the composition.

P. W., of Mass.—Your window sash fastener is not new or patentable. Essentially the same device is in use.

J. M., of Ill.—The benefit to exhibitors is the great publicity which is given to the articles they contribute in the Palace. As for the matter of curiosities merely, the exhibitor, we suppose, must rest satisfied with the honor, throwing aside all idea of gain.

J. M. N., of Vt.—We have no doubt of the novelty of your furnace for drying starch. If it is capable of performing well it is a good thing.

R. W. C., of New York.—The public and ourselves have entertained the opinion, that the voyage of the W. Norris was to be made in six days from New York to Liverpool. This will be corrected next week.

C. A., of C. E.—Your alleged improvement in "trucks" does not, in our opinion, possess any patentable feature. Essentially the same device has been shown us before.

S. W. McC., of Tenn.—If Mr. Broad has a machine as good as you say, you cannot do any better in this section. We know nothing of his business, as he has made no application through us.

S. B., of Philadelphia.—An inch is the twelfth part of a foot, and the thirty-sixth part of a yard; the latter bears to a pendulum vibrating seconds in a vacuum in New York at 32 degs., the relation of 1,000,000 to 1,086,141. There is a pretty quantity of uncertainty about our "Rules."

Money received on account of Patent Office business for the week ending Saturday, Oct. 22:—

L. P., of Vt. \$20; J. M., of Ct., \$60; E. H. P., of Ct., \$20; G. H. H., of Pa., \$10; D. A. H., of N. Y., \$50; A. N. N., of Ind., \$50; C. M. R., of N. Y., \$25; C. H. P., of N. Y., \$100; D. S. D., of N. Y., \$20. T. B., of N. Y., \$10; S. W., of N. Y., \$20; D. W. B. & Co., of Pa., \$500; S. E. P., of Pa., \$55; J. B., of Mich., \$20; S. R. D., of Pa., \$27; S. W., of L. I., \$60; W. M. L., of N. Y., \$32; W. L., of N. Y., \$25; J. H. C., of N. Y., \$40.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 22:—

L. R., of Vt.; J. O., of N. Y.; S. W., of N. Y.; C. C., Jr., of Mass.; W. L., of N. Y.; J. H. C., of N. Y.; C. & D., of Pa.; F. M., of Ill.

A Chapter of Suggestions, &c.

BACK NUMBERS—Vol. 9.—The first three numbers, Vol. 9, being so nearly exhausted, we are led to announce that in future we shall not furnish the back numbers to any but those who pay for a full volume in advance. Half yearly subscribers cannot be furnished with the first numbers of the volume, unless the applicant is pecuniarily unable to remit the full amount, in which event his case will be exempt from this rule, by his making such statement in the letter which accompanies the remittance.

MISSING NUMBERS—Mail Subscribers who have failed to receive some of the numbers of Vol. 8, are informed that we are able to supply them with any of the numbers, from 1 to 52, EXCEPT the following, and these we are ENTIRELY OUT OF—Nos. 2, 3, 4, 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 25, 26, 47, 48, 49, 50, 52.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication; anonymous letters receive no attention at this office. If you have questions to ask, do it in as few words as possible, and if you have some invention to describe, come right to the business at the commencement of your letter, and not fill up the best part of your sheet in making apologies for having the presumption to address us. We are always willing to impart information if we have the kind solicited.

PATENT LAWS AND GUIDE TO INVENTORS.—We publish and have for sale, the Patent Laws of the United States—the pamphlet contains not only the laws but all information touching the rules and regulations of the Patent office. Price 12 1/2 cents per copy.

BINDING.—We would suggest to those who desire to have their volumes bound, that they had better send their numbers to this office, and have them executed in a uniform style with their previous volumes. Price of binding 75 cents.

FOREIGN SUBSCRIBERS.—Our Canada and Nova Scotia patrons are solicited to compete with our citizens for the valuable prizes offered on the present volume. [It is important that all who reside out of the States should remember to send 25 cents additional to the published rates for each yearly subscriber—that amount we are obliged to pre-pay on postage.]

RECEIPTS.—When money is paid at the office for subscriptions, a receipt for it will always be given, but when subscribers remit their money by mail, they may consider the arrival of the first paper a bonafide acknowledgment of the receipt of their funds.

BACK NUMBERS AND VOLUMES.—In reply to many interrogatories as to what back numbers and volumes of the Scientific American can be furnished, we make the following statement: Of Vols. 1, 2, 3, and 4—none. Of Vol. 5, all but six numbers, price, in sheets, \$1; bound, \$1.75. Of Vol. 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7, all; price, in sheets, \$2; bound, \$2.75. Of Vol. 8, all; price, in sheets, \$2; bound, \$2.75.

PATENTERS.—Remember we are always willing to execute and publish engravings of your inventions, providing they are on interesting subjects, and have never appeared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permitted to have the engravings executed to suit our own columns in size and style. Barely the expense of the engraving is charged by us, and the wood-cuts may be claimed by the inventor, and subsequently used to advantage in other journals.

GIVE INTELLIGIBLE DIRECTIONS.—We often receive letters with money enclosed, requesting the paper sent for the amount of the enclosure, but no name of State given and often with the name of the post-office also omitted. Persons should be careful to write their names plainly when they address publishers, and to name the post-office at which they wish to receive their paper, and the State in which the post-office is located.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within fourteen years, can obtain a copy by addressing a letter to this office, stating the name of the patentee, and enclosing \$1 for fees for copying.

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American and Foreign Patent Agency.

IMPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M. until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express, or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. MUNN & CO., Scientific American Office, 125 Fulton street, New York.

EUROPEAN PATENTS.—MESSRS. MUNN & CO. pay special attention to the procuring of Patents in foreign countries, and are prepared to secure patents in all nations where Patent Laws exist. We have our own special agents in the chief European cities; this enables us to communicate directly with Patent Departments, and to save much time and expense to applicants.

ENGRAVINGS FOR SALE.—The large full page engraving of the internal view of the Crystal Palace which appeared in the Scientific American, last Vol., will be sold with the small ornamental cuts which have appeared under the Crystal Palace head in this volume at the mere cost of electrotyping, by application at this office.

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, etc., etc. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway.

HUDSON MACHINE WORKS and Iron Foundry.—at Hudson City, N. Y., are prepared to contract for castings for railroads, bridges, buildings, gas pipes and posts, water pipe, cast-iron ornamental floors, cannon, &c. Steam engines and boilers, high and low pressure, sugar mills, Cornish lifting and forcing pumps for mines, also superior hydraulic pumps and presses, and superior machinists' tools made to order. Special attention given to the making of patent machines. Orders by mail will receive prompt attention. LANG, COOK & CO., T. H. LANG, (late foreman at the New York Novelty Works), F. COOK, H. McCLELLAND, 73m

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UNITED STATES PATENT OFFICE, Washington, Sept. 28, 1853.

ON THE PETITION OF HETTRICK ALKEN, of Franklin, New Hampshire, praying for the extension of a patent granted to him on the twenty-seventh day of December, 1839, for an improvement in constructing sockets for holding tools, for seven years from the expiration of said patent, which takes place on the twenty-seventh day of December, eighteen hundred and fifty-three.—It is ordered that the said petition be heard at the Patent Office on Monday, the 15th of December next, at 12 o'clock, P. M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing. All testimony taken by either party to be used at the said hearing must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Evening Telegraph, Evening Post, and Scientific American, New York; Boston Post, Boston, Massachusetts; and Patriot, Concord, New Hampshire; Enquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the second Monday of January next, the day of hearing.

CHARLES MASON, Commissioner of Patents.

P. S.—Editors of the above papers will please copy and send to the Patent Office, with a paper containing this notice. 63

WE WANT TO CONTRACT FOR TUBULAR Boilers, from 8 to 20 horse power. Address HALL & BOLLINGER, Fayetteville, N. C. 53c

WATTS, BELCHER & CO.—Machinists, Manufacturers of Steam Engines, Lathes, Planing Machines, and Machinists' Tools of all descriptions. Jobbing promptly attended to, at 233 Nassau street, New York. WATTS, BELCHER & CO. 64c

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MATHEMATICAL OPTICAL INSTRUMENTS.—The subscriber begs leave to bring to the notice of the professional community, his new and extensive assortment of the above instruments, which he partly imported direct from the most celebrated makers in Europe and partly had manufactured under his own personal supervision. The undersigned would particularly invite attention to his very large and complete assortment of the justly celebrated Swiss Mathematical Drawing Instruments, for the sale of which in this country he has the sole Agency, and which he can furnish at from \$5 to \$200 per case. Orders from any part of the Union promptly executed, and price list sent if required. 3 Geov. C. T. ANSLEY, 224 Chestnut st., Philadelphia. 62c

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EUREKA GOLD SEPARATOR.—This machine has been thoroughly tested by scientific and practical gold miners, and pronounced far superior to any amalgamator yet known.—An amalgamator taking up but one cubic square, and very trifling power, is capable of amalgamating one ton per hour, with great ease and perfection, without any loss of quicksilver whatever. They are portable, and delivered in boxes ready for shipment. Price \$50 each. Further information can be obtained on application to JOHN S. BISSING & CO., 48t 22 Cliff street, N. Y.

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THE NEW HAVEN MANUFACTURING CO.—New Haven, Conn., having purchased the entire right of E. Harrison's Flour and Grain Mill, for the United States and Territories, for the term of five years, are now prepared to furnish said mills at short notice. These mills are unequalled by any other mill in use, and will grind from 20 to 30 bushels per hour of fine meal, and will run 24 hours per day, without heating, as the mills are self-cooling. They weigh from 1400 to 1800 lbs., of the best French burr stone, 20 inches in diameter; snugly packed in a cast-iron frame, price of mill \$200, packing \$5. Terms cash. Further particulars can be had by addressing as above, post paid, or to S. C. HILLS, agent N. H. M. Co., 12 Platt st., N. Y. 57c

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PARSONS' SELF-STRAINING SAW.—Requires only ten pounds weight to strain it, and combines the advantages of both muley and gate or sash mills, will bear as much feed, is as easily kept in order, will cut as much lumber with one-fourth less power, and is a successful use in five States. A working model is in the Crystal Palace, where further information can be had, or of the proprietor at Wilkesbarre, Penn. JAMES JONES, S. E. PARSONS, Agent.

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