

CORRESPONDENTS

SUBSCRIBERS who enclose letters to us to be addressed to various correspondents, should bear in mind that however willing we may be to send their letters to the proper persons, it is almost impossible for us to do so. Letters sent to us containing a simple inquiry are immediately answered, and are not preserved. Our correspondence is necessarily very large, hence it is quite impossible for us to remember the names of even only a small portion of those who write to us.

H. A. of N. Y.—We are sorry to inform you that the invention you propose for ventilating gas-burners, so as to carry off the noxious products of combustion, is not new. The gas-lights of the library of the Athenaeum of London were ventilated by pipes dipping into the lamp glasses, which carried away the burned air out of the room into some open space in the ceiling, or to flues extending into the open air. This device, in substance, has been adopted in the Tremont Temple, Boston, the lights being set in the mouths of small flues in the ceiling.

E. E. of Md.—A patent is for a machine, and not for a principle or function apart from machinery. You will find a decision on this point in Robb's Patent Case, Vol. I, page 734.

A. B. of Boston—The Thames Tunnel is not used for a carriage-way at all, although it has been proposed to construct approaches to it for this purpose through circular excavations two hundred feet in diameter. As an investment, the tunnel has never paid any profit on the \$3,000,000 expended in its construction. Its receipts have amounted to scarcely \$25,000 per annum. It is a damp, uncomfortable hole, and is rendered more so by the influx of land springs, which are a continual source of expense to repair.

J. C. of Conn.—Or moule and bronze are not the same. The former is composed of 52 parts of zinc and 48 of copper; the latter is a mixture of tin and copper, in various proportions. Birmingham, in England, is celebrated for its excellent bronzes, but they do not equal in fineness those made in Paris. We are doing comparatively nothing in this country in either of these articles. It will require time to bring the business into importance.

B. E. A. of Wis.—You will probably be surprised to learn that your device for raising water is one of the oldest inventions on record. It is the old Archimedean screw, so named because invented by the famous Archimedes. It has been very extensively used as a water elevator, but modern ingenuity has entirely supplanted it in this country. The simple double-acting force and lift pumps are much better adapted to the purposes for which you have intended your supposed improvement. This old screw, together with the endless chain water wheel, are often presented to us as new inventions.

B. H. of Min. Ter.—You can procure a good clap-board machine of A. Crosby, Fredonia, N. Y.

S. & C. D. J. of Vt.—We cannot form an intelligible judgment on your machine for upsetting wagon tires, from the description given. Send us a sketch and description of it, and we will be happy to advise you in reference to it.

G. G. of L. I.—The specimen of inner bark sent, seems to us to have a fine fiber, and might make good paper, but it would require careful experiments to determine its utility. We do not know who would attend to such an investigation. Probably some party who is, or has been, in the paper business, would be most competent.

J. S. F. of Pa.—A train of cars going forty miles per hour, with all the wheels "braked" to about the full extent usually practised, would stop in about 400 feet; but as the locomotive—by far the heaviest mass in the train, and consequently possessing most momentum—is not provided with brakes, the train would move considerably farther, say 600 feet. In experiments the cars have generally stopped in from 350 to 700 feet.

H. H. of Conn.—We admit that the two inventions are not the same in their particular arrangements, but they are analogous in their mode of operation, and the principle, it cannot be denied, is identical. You cannot procure a patent for the simple difference you propose in the construction of your plan. Two inventions may accomplish the same result, and become the proper subjects of two patents, but there must be a substantial difference in the two contrivances, which does not appear in your case.

E. A. R. of Pa.—We do not think there is much doubt of the novelty of your improved apparatus for treating hides. You had better send us a model of it without delay; thus you may avoid the possibility of an interference.

J. W. D. of Ala.—"Gold from baser substances standing all known tests" is not "a humbug," as it has never, we think, deceived any one. There is no such transmutation in the present state of the arts.

J. H. S. of N. Y.—We know of no efficient means of preserving rain or other water sweet in a cistern, in the summer, short of making the cistern perfectly sweet, and filtering all the water before its admission. A free access of air will probably conduce to preserve water under ordinary circumstances. A housekeeper in Brooklyn enjoys the use of pure and sweet rain water all the year round from a large cement-lined cistern below ground, which receives the water from the roof through a thick filter of sand and pebbles. This filter occupies the whole of a small bedroom in the third story.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, July 18, 1857.—

J. H. G. of Ky., \$30; J. M. E. of Pa., \$25; J. W. R. of Ohio, \$30; S. C. of Pa., \$30; E. B. L. of N. Y., \$250; E. B. of Mass., \$30; W. W. of Mo., \$30; B. & R. of N. Y., \$30; St. J. & B. of N. Y., \$55; W. J. S. of N. Y., \$30; E. S. of Conn., \$150; C. D. T. of Ill., \$30; O. D. & M. of Ill., \$25; C. B. C. of Iowa, \$30; L. V. of Wis., \$30; W. D. of N. Y., \$30; J. G. A. of N. J., \$25; J. M. of N. Y., \$30; L. W. of N. Y., \$70; M. C. & C. of N. Y., \$25; B. T. B. of N. Y., \$55; W. B. of N. Y., \$30; T. W. R. of N. Y., \$50; N. C. S. of Conn., \$40.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 18, 1857.—

J. M. of N. Y.; J. M. B. of Pa.; J. H. G. of Ky.; L.

& M. of Conn.; L. W. of N. Y. (3 cases); J. G. A. of N. J.; O. D. & M. of Ill.; H. B. of Conn.; N. C. S. of Conn.; G. C. T. of Mass.

IMPORTANT TO INVENTORS.

The rapid growth of our Patent Agency Business, during the past three years, has required a great addition to our ordinary facilities for its performance, and we are now able to announce the completion of a system which cannot fail to arrest the attention of all who have business of this kind to transact.

OUR PRINCIPAL OFFICE will be, as usual, at No. 123 Fulton street, New York. There is no other city in the Union so easy of access from every quarter as this, consequently there are greater advantages in regard to the transmission of models, funds, &c., through the various channels that center in New York. Two of the partners of our firm reside here, and during the hours of business are always at hand to counsel and advise with inventors. They are assisted by a corps of skillful Examiners, who have had many years of active experience in the preparation of cases for the Patent Office.

To render our Patent Agency Department complete in every respect, we have established a

BRANCH OFFICE IN THE CITY OF WASHINGTON, on the corner of F and Seventh streets, opposite the United States Patent Office. This office is under the general care of one of the firm, assisted by experienced Examiners. The branch Office is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington having business at the Patent Office are cordially invited to call at our office.

A SPECIAL REQUEST. Our facilities for the speedy preparation of cases previous to the application for the patent being much more extensive in New York than at Washington, we especially require that letters, models, and remittances should be made to our address here.

EXAMINATION OF INVENTIONS. We have been accustomed from the commencement of our business—twelve years since—to examine sketches and descriptions, and give advice in regard to the novelty of new inventions, without charge. We also furnish a printed circular of information to all who may wish it, giving instructions as to the proper method which should be adopted in making applications. This practice we shall still continue, and it is our purpose at all times to give such advice freely and candidly to all who apply to us. In no case will we advise an inventor to make application unless we have confidence in his success before the Patent Office.

Our extensive experience in mechanical and chemical improvements enables us to decide adversely to nearly one half of the cases presented to us for our opinion, before any expense has occurred in the preparation of the case for a patent.

When doubt exists in regard to the novelty of an invention, we advise in such cases a PRELIMINARY EXAMINATION to be made at the Patent Office. We are prepared to conduct such examinations at the Patent Office through our "Branch Agency," upon being furnished with a sketch and description of the improvement. Our fee for this service will be returned to the inventor.

After sufficient experience under this system, we confidently recommend it as a safe precautionary step, all cases before application is made for a patent—not that there will be no rejections under the system. It is impossible to avoid such results in many cases, owing to the exceedingly wide range taken by the Examiners in the examination of cases; but, nevertheless, many applicants will be saved the expense of an application by adopting this course. Applicants who expect answers by mail must enclose stamps to pay return postage.

THE COSTS ATTENDING AN APPLICATION for a Patent through our Agency are very moderate, and great care is exercised in their preparation. No cases are lost for want of care on our part in drawing up the papers, and if the claims are rejected, we enter upon a speedy examination of the reasons assigned by the Commissioner of Patents for the refusal, and make a report to our clients as to the prospects of success by further prosecution.

A circular containing fuller information respecting the method of applying for Patents can be had gratis at either of our offices.

REJECTED APPLICATIONS. We are prepared to undertake the investigation and prosecution of rejected cases, on reasonable terms. The close proximity of our Washington Office to the Patent Office affords us opportunities for the examination and comparison of references, models, drawings, documents, &c. Our success in the prosecution of rejected cases has been very great. The principal portion of our charge is generally left dependent upon the final result.

All persons having rejected cases which they desire to have prosecuted are invited to correspond with us on the subject, giving a brief history of their case, enclosing the official letters, &c.

FOREIGN PATENTS. We are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business we have offices at Nos. 65 Chancery Lane, London; 29 Boulevard Saint Martin, Paris, and 3 Rue Therrienne, Brussels. We think we may safely say that three-fourths of all the European Patents secured to American citizens are procured through our agency.

Inventors will do well to bear in mind that the English law does not limit the issue of Patents to inventors. Any one can take a Patent there.

Circulars of information sent free on application.

Remember the SCIENTIFIC AMERICAN PATENT AGENCY, No. 123 Fulton street.

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CLARKE'S CHIMNEY SAFE is suitable for all chimneys (old or new) which it will improve in many respects. Price, including ventilating register, &c., \$4. This is a patent for the million. Rights for sale. GEO. B. CLARKE, Patentee, Leonardville, N. Y. 1*

TO WATCHMAKERS AND JEWELERS—The owner of a watch and jewelry establishment in Memphis, wishes to sell out. The house has a reputation equal to any. The watch work alone, worth \$5,000 per year, can easily be made much more. For particulars, address Box 207, Post Office, Memphis, Tenn. 1*

STEAM ENGINES, Steam Boilers, Steam Pumps, Saw and Grist Mills, Marble Mills, Rice Mills, Quartz Mills for gold quartz, Sugar Mills, Water Wheels, Shafting and pulleys. The largest assortment of the above in the country, kept constantly on hand by W. M. BURDICK, 102 Front st., Brooklyn, N. Y. 46tf

BOONE'S VERTICAL ROPE MACHINE—Patented July 15, 1856. Illustrated in the Sci. Am. of Feb. 28th last; takes but little room, and is thus described by a purchaser:—"It makes the prettiest and best rope at a less cost, and more of it, and requires but little power to drive it. I purchased one, and have run it several months. I like it the best of any rope machine I ever saw, and have ordered more of them." So said one of our extensive rope manufacturing firm, well known for the excellence of their manufacture. For rights or machinery for Missouri or Ohio, address A. & J. T. Speer, 212 Broadway, N. Y. The largest assortment of the above in the country, kept constantly on hand by W. M. BURDICK, 102 Front st., Brooklyn, N. Y. 1*

NOTICE—To Samuel H. Whittaker, of Cincinnati, O., and all others interested: Whereas, on the 9th day of June, 1857, there was issued to you from the U. S. Patent Office letters patent for a nut machine, in the claim for which you notice one of Richard H. Cole's patents for making nuts, dated June 3, 1856; and whereas, by examining your model we discover that by your method you make use of not only said patent of date June 3, 1856, but also one other patent of same date, and a patent of said Cole's, dated July 17, 1856. Now, therefore, we, the undersigned, Richard H. Cole and Charles F. Chouteau, the present owners of said Rich'd H. Cole's patents for the manufacture of metallic nuts, hereby notify you not to use the above-named patents so owned by us, and we warn the public against the use of our said patents without license from us. R. H. COLE, Charles F. Chouteau, St. Louis, June 29, 1857. C. F. CHOUTEAU. 1*

BAROMETERS, Air Pumps, Galvanic Batteries, Magic Lanterns, Mathematical Instruments, Microscopes, Thermometers, Tape Measures, Surveyors' Compasses, Spy Glasses, Landscape Mirrors, Electrical Machines, Stereoscopes, Gyroscopes. McALLISTER & BRO., 728 Chesnut st., Philadelphia.

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SCREW BOLTS with Square Carriage or Counter-sunk heads, bolt ends, square head wood screws, set screws, machine screws, ratchet & breast drills, standard steel and shrinkage rules for sale, by CHAS. MERRILL & SONS, 556 Grand st., New York. 46 5*

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MECHANICS AND MANUFACTURERS—Tennessee Exhibition. The Third Annual Fair of the Mechanics' Institute of Tennessee will be held at Nashville in October next. Exhibitors from all the States will be permitted to enter articles and compete for the first premiums. For particulars address W. M. STOCKELL, President, or H. K. WALKER, Secretary. 45 5

WOODWORTH PLANING MACHINES of the superior style and workmanship, of various sizes, and the latest improvements. Also Steam Engines and Boilers, Sash and Blind Machinery, Lathes, Planers, Drills, Belting, and all kinds of Machinists' Tools on hand, and for sale at the Machine Depot, 163 Greenwich st., New York. A. L. ACKERMAN. 45 8

CRYSTAL PALACE—This splendid edifice is now under the auspices of the American Institute. Samples of the productions of our country in Agriculture, Manufacture, and the Arts, will be received for public inspection. All information relative thereto will be given at the Palace by addressing W. M. B. LEONARD, Corresponding Secretary and Agent. 45tf

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DR. D. BREED, late Assistant and acting Chief Examiner in the U. S. Patent Office, has established at Washington, D. C., a chemical laboratory for experiment and analysis, in order to test and improve processes of manufacture, and mechanical devices employed in the chemical arts, and to procure and defend patent rights. After many years devoted to chemistry (having studied in the German laboratories) Dr. Breed feels confident in offering his services as a practical chemist to inventors and others interested in the chemical arts and manufactures. 44 4*

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