TO CORRESPONDENTS.

J. O. G., of Vt.—Your proposition to construct a balloon to start from the top of Mt. Washington during the summer, with a pleasure party for Saratoga, is somewhat out time. You should have begun its construction last winter if you expected to have it ready for embarkation in season. You ask our advice as to the best means of propelling the aerial car, and also as to the cost of such an establishment. We confess our inability to meet your wishes on these points. Rufus Porter, late of Washington, and Professor Pennington, of Virginia, have bestowed more time to the consideration of this subject than any other persons known to us. If you could put your heads together, perhaps something grand might result from your combined wisdom. If you are really serious about the matter and wish the best advice we can offer, we advise you to drop the scheme and go to hoeing corn and potatoes—a more profitable employment of your time, by far.

L. M. C., of Mass—If you would amalgamate linseed oil with the pulp of paper machie, it appears to us it would render it water proof. Or by mixing it with a very thin solution of india rubber, then submitting the sheets, before they are quite dry, to the fumes of sulphur in a hot chamber or oven, you would accomplish the object. These are suggestions merely, as you are acquainted with the use of copal and other varnishes for rendering such articles water-proof.

H. A., of C. E.—From the data you have given us, we make the nominal power of your wheel 37-horse. If it is well made, its actual power will be 28-horse; if not first-rate, deduct a third from its nominal power.

G. B. O., of ——.—India rubber and guttapercha have often been proposed as a better material for railroad cars than wood, so as to remove the accidents arising from splinters by collisions. Corrugated sheet iron, we think, is a better material, and is fire-proof

B. P., of Conn,—There is no special treatise on gums to which we can refer you. Gum copal will make a water proof fabric stiff; a thin varnish of gutta percha will not do it.

T. G. S., of Md.—The method described by you for finding out the hight of a tree is not so good as the old plan so well known, by the use of a notched rod held up o the eye.

A. L. B., of Phila.—$675 is the lowest price for the engine. The metal nickel contains no acid. Overman's Metallurgy will give you some information. You will find it for sale in your city.

W. B., of Pa.—We have been told that sweet oil drunk freely is an antidote for that terrible poison strychnine, but personally we cannot endorse the statement. You might make some experiments with animals.

H. McL., of Me.—One square foot of grate surface and nine square feet of heating surface—flues, &c.—are allowed for each horse power in a boiler.

C. C. M., of N. Y.—All new boilers are subject to priming. A funnel-shaped mouth-piece with a perforated plate on the pipe that conducts the steam to the cylinder tend to shed the water and prevent it passing over.

D. C. W., of Ohio—Write to A. M. Mace, of Springfield, Mass., about his Benzole apparatus.

J. C., of N. Y.—You cannot obtain motallic silicon in this city.

Fairchild & Lawhead, of Morgantown, Monongalia Co., Va., wish to correspond with a manufacturer of the best lathe for turning carriage spokes.

E. W., of N. Y.—The courts have decided that the Norcross Planing Machine is not an infringement of the Woodworth. See case reported in the Sci. Am. some time ago.

G. E., of Wis.—The method of case hardening iron with the prussiate of potash is described on page 256, volume 3, Sci. Am.

J. C. C., of Mich.—You will find the information wanted about files on another column.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, June 21, 1856:—

N. B. S., of Ind., $110; C. W. O'L., of S. C., $25; G. B. C., of N. Y., $10; E. & A. S., of N. Y., $25; H. B. & Co., of N. Y., $250; T. W. R., of Ala., $30; W. H. B., of Ind., $350; J. H. Jr., of N. Y., $20; E. C. C., of Mass., $25; C. W. & Co., of Min., $100; V. & B., of N. Y., $100; S. B. F., of Mass., $30; J. A. B., of N. J., $30; M. S. P., of Mass., $30; G. S., of N. Y., $30; P. & P., of ——., $20; A. M., of Mass., $25; J. B., of Ill., $25; J. S., of Conn., $30; S. & G., of N. Y., $30; J. T. D., of N. Y., $52; W. M., of O., $25; E. G. S., of N. Y., $25; H. H. J., of N. J., $30; J. C., of Ill., $25; W. P. C., of La., $60; R. G. Jr., of Mass., $10; D. C. W., of Pa., $25; T. B., of Conn., $25; A. & G. M. F., of N. Y., $30; A. G. B., of Conn., $25; W. W. H., of ——., $30; H. P., of O., $27.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 21:—

E. T. H., of Pa.; D. C. W., of Pa.; C. W. O'L., of S. C.; S. W., of Ind.; J. B., of Ill.. (2 cases); T. B., of Conn.; E. C. C., of Mass.; D. H., of Conn.; H. P., of O.; A. & G. M. F., of N. Y.; A. G. B., of Conn.; E. G. S., of N. Y.; J. S., of Conn.; S. & G., of N. Y.; J. C. T., of Ill.; W. M., of O.; A. M., of Mass.

Important Items.

To the Unfortunate—We are no longer able to supply the following back numbers of the present volume Nos. 6, 12, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28, 29, 30, 34, 35, and 37. Such numbers as we have to furnish, are gratuitously supplied to such subscribers as failed to receive them; and we would take occasion to state, that any person failing to receive their paper regularly, will confer a favor by notifying us of the fact. Missing numbers should be ordered early, to insure their receipt, as an entire edition is often exhausted within ten days after the date of publication.

Models—We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and prevent the liability of their being mislaid.

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 date of patent when known, and enclosing $1 as fees for copying.

Receipts—When money is paid at the office for subscription, 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 bona fide acknowledgment of the receipt of their funds.

Literary Notices.

The Marble Workers' Manual—This is a very excellent treatise on marbles, and the methods of working them—translated from the French by M. L. Booth. It also contains an appendix concerning American marble, which thus rendersit of greater interest to American marble workers. It describes the various kinds of marble of Greece, Rome, and other countries, and points out their characteristics. The working of designs, coloring marble, making artificial stone, and a vast quantity of other information relating to the subject is presented in a clear and vigorous style. This book should have a large circulation, as the workers in marble are very numerous in our country. It is published by Sheldon, Blakeman & Co., this city.

North British Review—The number of this distinguished Review for this quarter contains nine very fine essays. Historical Painting is a review of Macauley, or rather, his style, and is very favorable to that historian. Grotes' history o' Greece, Indian Literature, British New Testament Criticism, and Peace and its Political Duties, are some of the subjects treated. This Review is always profound, and characterized by a spirit of moral liberality and candor. It is published by Leonard Scott & Co., 54 Gold st., this city.

United States Magazine—The July number opens a new volume, and commences a new era in the history of that work. The magazine comes to us in handsome book form, and contains 100 pages splendidly illustrated. It compares closely, if indeed, in some respects it does not exceed the best of our present monthlies. How the publishers are enabled to furnish so elegant a work for so small a price is a puzzle. Terms 20 cts. per single copy. $2 a year. Emerson & Co., N. Y., publishers.

Rachel and the New World—This is an amusing volume by Leon Beauwallet, one of the suite of Mdlle. Rachel, the celebrated French actress. It details, with the nervous ardor and exaggeration common to all Frenchmen, the incidents and strange sights which befel the author and his friends in a strange land. Nothing suits him. No place but Paris is fit to live in. But his story is told in a dashing racy style, that interests and delights the reader. Dix & Edwards publishers, No. 321 Broadway, N. Y.

Haswell's Mechanics' Tables—This is a very useful and convenient little volume, by C. Haswell, the well known Marine Engineer. It contains a great number of useful tables, and rules for measuring surfaces, cubes, &c., and how to cut out sheets, hoops, and plates of metal for boilers, domes, &c. It is such a work as every engineer should have at his elbow to save him a vast amount of labor in calculating. It is published by Harper & Bro. this city.

The Modern Story Teller—A handsome book comprising over 300 pages, made up of selections of "the best of stories of the best authors." For summer reading, when short piquant stories are taken with a relish, this book is particularly adapted. Price 50 cents. G. P. Putnam & Co., 321 Broadway, publishers.

The Pictorial Fourth of July Brother Jonathan is a splendid sheet. It is filled with large and beautiful engravings. B. H. Day, publisher. Beekman street, N. Y.

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IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had Ten years' practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they continue to offer their services to all who may desire to secure Patents at home or abroad.

Over *three thousand* Letters Patent have been issued, whose papers were prepared at this Office, and on an average *fifteen*, or *one-third* of all the Patents issued each week, are on cases which are prepared at our Agency.

An able corps of Engineers, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others possess, we are able to give the most correct counsels to inventors in regard to the patentability of inventions placed before us for examination.

Private consultations respecting the patentability of inventions are held free of charge, with inventors, at our office, from 9 A. M., until 4 P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country.

Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application.

In addition to the advantages which the long experience and great success of our firm in obtaining patents present to inventors, they are informed that all inventions patented through our establishment, are noticed, *at the proper time*, in the Scientific American. This paper is read by not less than 100,000 persons every week, and enjoys a very wide spread and substantial influence.

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American and Foreign Patent Attornies, Principal Office 128 Fulton street, New York.

GROVER'S PATENT WIRE CUTTERS—A view of which is given in No. 42, this paper, are for sale wholesale and retail by E. D. & G. Draper, Hopedale, Milford, Mass. We are also sole agents for the sale of Butcher's Patent Temples, Perry's Patent Parallel Shuttle Motion, Hayden & Wyllys' Paten Drawing Regulators or Eveners, Thompson's Patent Oilers, &c. 42 7*

A NEW AND SCIENTIFIC INVENTION—Dr Cheever's Galvano-Electric Regenerator. Patent issued Jan. 15th, 1856. A circular relating to the use of the instrument, embracing a general treatise of atony of the spermatic organs, the result of which tends to softening the medullary substance of which the brain is composed may be had gratis, and will be sent to any address by mail by their indicating a desire to receive it. All letters should be directed to DR. J. CHEEVER, No. 1 Tremont Temple, Boston 42 4*

FOR SALE—A second-hand saw mill engine and saw gearing, including two cylinder boilers 22 in. diam. 24 ft. long, with connection pipes and cocks, fire front, &c., upright cylinder 5 in. bore, 26 in. stroke, with iron gallows frame, steam gate, gauge, &c., two 6 feet balance wheels, eccentric, &c., iron carria e rack and pinions, saw gate, ways, stirrups, &c., all in good order. Price $400. E. WILBUR, Albion, N. Y. 42 2*

MECHANIC'S TABLES—A New Book. Containing areas, and circumferences of circles, circumferences of angled hoops, when angled outside or inside, cutting of boiler plates, covering of kerfs, solids, &c., weight of various materials. Miscellaneous notes, &c. By Charles H. Haswell, Civil and Marine Engineer. Author of Haswell's Engineers and Mechanics Pocket Book.—This book will be forwarded by mail free of postage for fifty cents. Apply to CHALES H. HASWELL, No. 6 Bowling Green, New York. 42 3

SITUATION WANTED by a young man who has been foreman of a machine shop for the last four years. Would prefer goin West, either in a shop or on a boat Address Box 203, Poughkeepsie, N. Y. 1*

LAWRENCE SCIENTIFIC SCHOOL—Harvard University, Cambridge, Mass. The next term will open on Thursday, Aug. 28th. For catalogue containing full particulars address E. W. HORSFORD, Dean of the Faculty. 42 8

CALVIN L. GODDARD, No. 3 Bowling Green, New York, manufacturer of the superior steel ring and tooth Burring Machines, with the latest improvements, for first and second breakers and finishers of woolen carding machines. 1*

ELECTRO-CHEMICAL FOOT BATH—"Dr. Smith, Dear Sir:—I have cured with your Bath one of the worst cases of Fever and Ague I ever saw, of about eleven months' standing. Dr. J. C. Knapp Worcester, Mass." Manufactured by Dr. S. B. Smith, No. 77 Canal st., New York. Price $60. For sale also the Direct and to-and-fro current Magnetic Machine; price $12. All orders punctually executed.

$1,000 A YEAR—An Agent is wanted in every town in the Union to manufacture an article of daily consumption; can be manufactured at the Agent's dwelling; secured by copyright; sale as permanent as flour. Full particulars sent on the receipt of 3 cents. Address J. T. HORNE & CO., Box 4,551, New York. 42 4*

FOR SALE—A lot of first class cotton machinery, nearly new; single and double beater, lappers, railway, and other drawing frames, rope spinning and laying machinery, &c. Will be sold at a reduced price for cash. To be seen at D. D. BADGER & Co's., cor. of Ave. C and 14th st., N. Y. 1*

STEAM ENGINES—The subscriber is now prepared to furnish steam engines from 1 to 100-horse power on the shortest notice. Having tested his Patent Oscillating Engine, is of opinion that nothing superior is offered in the market, As the peculiarities and advantages of his engines are too lengthy to be enumerated in a mere advertisement, he most respectfully requests those wishing to purchase or examine to call at Messrs. Darlington & Co's., No. 17 Railroad Buildings, cor. of Franklin and Center sts., where a magnificent specimen of an oscillating engine is in successful operation, or at 22 Liberty st., where any desired information may be obtained. The right of this patent is also for sale. JUAN PATTERSON, Patentee. New York City. 42 2*

IMPROVED SUN SHADE—The undersigned, patentee of this article, which was illustrated in the first number of the present volume of the Sci. Am., has appointed C. & J. Davis, New York, general agents for the manufacture and sale of the same. All orders for sunshades and applications for agencies must be addressed to them at New York. S. N. CAMPBELL. 41 2*

50 STEAM ENGINES—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash. WM. BURDON, 102 Front st., Brooklyn. 41 tf

GOLD QUARTZ MILLS of the most improved construction; will crush more quartz and do it finer than any machine now in use, and costs much less. WM BURDON, 102 Front st., Brooklyn. 41 tf

1,000 YOUNG MEN of small means can make over 100 per cent. at home or abroad. Profits certain—no "chance." Business new, easy, useful, honorable. Apply (inclosing a stamp) to Box No. 333, Detroit, Mich. 41 2*

THE MORELAND MORTISING MACHINE Company.—The patentee, Mr. Moreland, has associated himself in partnership with a number of gentlemen in this city, and the Company are now engaged in the manufacture of his Patent Boring and Mortising Machines; and after the 15th of June next they will be prepared to furnish machines of the best quality, being made of iron and steel, and are extremely strong, heavy, simple, durable, and not liable to get out of order. This machine is well adapted for railroad car building, reaping and thrashing machines, also for wagon and carriage hubs of every description. It works two chisels, that act independent of each other, which can be set to give the required taper to the mortise to suit the spoke, no trimming being necessary. The manufacture of this machine has been retarded by Mr. Moreland losing all his machines, tools, patterns, &c., by fire, orders and communciations relative to said machine, from April 4, 1855, have not been received by proper parties. All communications to receive attention should now be addressed to the Moreland Mortising Machine Co., Adrian, Mich. 40 3*

BIRMINGHAM IRON FOUNDRY—Manufacturers of Iron and Composition Castings, Chilled Rolls, Mill Gearing, Fan Blowers, Trip Hammers, Shafting, Shears, Presses &c. &c. India Rubber Calenders, Grinding and Cutting Machines, Turbine and Centervent Water Wheels. Also, contractors for Breast and Overshot Wood Wheels. Address SHELDON BASSETT, Prest., Birmingham, Conn. 132 6eow

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 Guage, Sewell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes. Machinery Oil of the most approved kind, etc.

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THE MASSACHUSETTS CHARITABLE MECHANIC ASSOCIATION Respectfully announce to the public their eighth Great Exhibition of American Manufactures and Mechanic Arts, to be opened at Faneuil and Quincy Halls, in the City of Boston, on Wednesday, the 10th of September. New inventions, improvements in the arts, and specimens of rare handiwork in every department of industry will be welcome to the Halls; and every facility will be afforded for a good display and the proper care of contributions. Medals of gold, silver, and bronze, and a new diploma designed by Billings, will be given to those whose articles merit such awards. Communications from those who wish more particular information, and from those who will require much space, may be addressed to the subscriber.

38 6eow JOSEPH L. BATES. Secretary.

HARRISON'S GRIST MILLS—20, 30, 36 and 48 inches diameter, at $100, $200, $300, and $400, with all the modern improvements; Bolters, Elevators, Belting, &c. &c. Also, Portable and Stationary Steam Engines of all sizes, suitable for said Mills. Apply to

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LYON'S COPPER LIGHTNING CONDUCTOR—Patented July 11, 1854. The subscribers have purchased the entire interest of the patentee in the manufacture of these celebrated conductors, and are prepared to furnish them with the appropriate fixtures to all parties holding the right to territory, in any quantity and on short notice. Circulars sent on application. Address, BRITTAN & EDMONDS, Lockport, N. Y. 27 4 oam

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SCHENCK MACHINERY DEPOT—163 Greenwich street, New York, keeps always on hand Lathes, Planers, Drills, Steam Engines, Woodworth's Patent Planing Machines, Belting, &c., in great Variety. Tools furnished of any size, to order, and of the best quality.

26 16* A. L. ACKERMAN, Proprietor.

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VERTICAL STEAM ENGINE and Boiler for Sale at a bargain. The Engine is nearly new, and well finished. The cylinder is 9 inches; the fly wheel is a hand wheel 5 feet in diameter, face 14 inches, turned off, weight 1350 lbs. The boiler is 20 feet long, 42 inches in diameter, 1 flue 17 inches, well braced wrought-iron heads; it is very strong, and has been in use about six months; is about 15-horse power. Cost $1200, will be sold or $675 cash; delivered on ship board. Apply to MUNN & CO., at this office.

MACHINISTS' TOOLS.—Meriden Machine Co have on hand at their New York Office, 15 Gold street, a great variety of Machinists' Tools, Hand and Power Punching Presses, Forcing Pumps, Machine Belting, &c., all of the best quality. Factory West Meriden, Conn. 32 13*

1856.—WOODWORTH'S PATENT Planing, Tonguing and Grooving Machines. The subscriber is constantly manufacturing, and has now for sale the best assortment of these unrivalled machines to be found in the United States. Prices from $85 to $1450. Rights for sale in all the unoccupied Towns in New York and Northern Pennsylvania. JOHN GILSON, Planing Mills, Albany, N. Y. 30 3m*

FILMER & CO., Electrotypers, and Manufacturers of Electrotype Materials, 125 Fulton st., N. Y. Molding Presses, Batteries, Cases, Backing Pans, Shaving Machines, Metal Kettles, Planes, Blocks, Building Irons, etc., etc., on hand, or furnished at short notice, and at moderate charges. Adams' Improved batteries and black-lead machines also for sale. 23 tf

OIL! OIL! OIL!—For railroads, steamers, and for machinery and burning—Pease's Improved Machinery and Burning Oil will save fifty per cent., and will not gum. This oil possesses qualities vitally essential for lubricating and burning, and found in no other oil. It is offered to the public upon the most reliable, thorough, and practical test. Our most skillful engineers and machinists pronounce it superior and cheaper than any other, and the only oil that is in all cases reliable and will not gum. The Scientific American, after several tests, pronounced it "superior to any other they have ever used for machinery." For sale only by the inventor and manufacturer,

F. S. PEASE, 61 Main st., Buffalo, N. Y.

N. B.—Reliable orders filled for any part of the United States and Europe. 33 tf

NORCROSS ROTARY PLANING MACHINE.—The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb, 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks is not an infringement of the Woodworth Patent.

Rights to use the N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, 208 Broadway, New York.

Office for sale of rights at 208 Broadway, New York Boston, 27 Stats street, and Lowell, Mass, 19 6m*

GRAIN MILLS—EDWARD HARRISON, of New Haven, Conn., has on hand for sale, and is constantly manufacturing to order, a great variety of his approved Flour and Grain Mills, including Bolting Machinery, Elevators, complete with Mills ready for use. Orders addressed as above to the patentee, who is the exclusive manufacturer, will be supplied with the latest improvements. Cut sent to applications, and all mills warranted to give satisfaction. 42tf

NEW HAVEN MFG. CO.—Machinists' Tools, Iron Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks, &c., on hand and finishing. These Tools are of superior quality, and are for sale low for cash or approved paper. For cuts giving full description and prices, address, "New Haven Manufacturing Co New Haven, Conn. 19 tf

HARRISON'S 30 INCH GRAIN MILLS—Latest Patent.—A supply constantly on hand. Price $200. Address New Haven Manufacturing Co., New Haven, Conn. 31tf

W. P. N. FITZGERALD, Counsellor at Law—late Principal Examiner in the U. S. Patent Office—has removed from Washington, D. C. to the city of New York, 271 Broadway, (corner of Chambers St.) As heretofore, his practice is confined to Patent Cases, which he will prosecute or defend, as counsel, before the Supreme and Circuit Courts of the United States, also before the Patent Office, or the Judges having jurisdiction of appeals therefrom. 29 1amtf

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