

TO CORRESPONDENTS.

R. J. S., Jr., of N. C.—Your plan of capturing Sebastopol, by discharging bomb shells filled with camphene upon the doomed city, may be very good. And it may be, as you eloquently remark, that "The proud castles of Inkermann, which the Russian Autocrat has boasted was impregnable, could be taken in one day." Perhaps also, as you further state, "the proudest navy that ever spread its canvas pinions to the joyous breeze, whose sturdy sides bristled with threatening cannon, would melt at the magic touch of this wondrous agent like the unreal fancies of a sleeping brain at the waking moment of a mighty wind!" We are pleased to know that in your mind there is "no shadow of a doubt" as to the success of this invention. We would suggest that you communicate with H. B. M. Queen Victoria, and H. I. M. Napoleon III., of France, so that the present European war may at once be brought to a termination. Patents for such gigantic inventions are unnecessary. No government would hesitate to pay a suitable reward for the bare idea. We would further suggest that instead of only firing bombs filled with camphene, you make an improvement in the shape of a machine for spouting the camphene in a continuous stream upon the town. If a lighted candle were held near the nozzle, the camphene would ignite as it issued, and thus a steady volume of liquid fire might be poured in upon the town, which would insure its instant destruction without the firing of a gun. If the besieged city were difficult of near approach, a hose pipe might be quietly laid, under cover of the night, up to the very walls, and a murderous deluge be suddenly commenced. This apparatus could also be used on shipboard. A method of capturing whales, substantially the same as yours, has long been in use; we do not sufficiently understand your plan to improve to judge of its patentability.

J. A. R., of Mass.—Your device for opening and closing window shutters does not present any novel feature that we had seen; we have seen the same thing in operation on window shutters in this city, and several applications have been made for patents for it within the past five years.

W. P. H., of Pa.—Your ideas in regard to ascending inclines on railroads, and turning curves, do not present anything new or patentable; we have long been familiar with the essential characteristics embraced in each, and we cannot advise you to waste your time upon them.

J. D., of Ohio.—You will oblige us by distributing the extra SCIENTIFIC AMERICANS among those who would be likely to wish such a paper. The sketch of your alleged improvement in water engines presents novelty, and we should think a patent might be secured for it, but we cannot think it capable of operating as well as a water wheel under the same conditions, and as the apparatus is more expensive and more liable to derangement, we cannot advise you to do anything with it.

J. M. W., of Mich.—We shall need drawings if you want an opinion as to the patentability of your invention; a model would be still better. What advantages do you expect to realize?

N. B., of Me.—The principle involved in your stove is not new. The arrangement appears novel to us and could perhaps be patented.

J. S. E., of Md.—We have not the numbers you speak of. You have not given the depth of the ditches, how then can we tell the quantity of water; if you know the quantity of water that gathers in a given time, say 10 cubic feet in a minute, or whatever it may be, you can easily calculate the depth and width of the ditch, also the latter requires to be very small.

E. A. H., of Ill.—Yours expired with No. 15. The direction of A. Hill's paper has been changed; there was no direction sent with his subscription. Have you put the coking apparatus in practice? we do not see how it can coke the coal if the blast is driven through it, it will produce complete combustion.

W. S. M., of Ill.—Your harrow-teeth corn sheller is new so far, as we know, but we really do not see its advantages.

T. M. K. W., of —If you had furnished us with your place of residence, we should have written in answer to your letter about the new material for making paper, of which you furnish a sample. There is no way by which you can protect yourself in the exclusive product of the article: like cotton, it is a natural plant, and all are free to cultivate it.

J. L., of Mass.—The lock which you describe for sliding doors appears to us to be new, and we think a patent may be obtained for it. You had better send us a model for examination.

H. C. L., of Ga.—Oberman's Metallurgy, is the book you want.

E. L. P., of Mass.—You cannot be interrupted in the use of your machine, in view of the facts set forth, and we presume no attempt will be made.

J. D. M., of Ala.—The ideas you suggest in regard to vertical boilers cannot be considered as possessing any novel features. In Boone's boiler the same ideas are carried in to effect.

J. M., of N. J.—Send us a sketch of your churn.

H. F. O., of L. I.—We think you can procure "Borden's Meat Discuit" of J. H. Brower & Co., 45 South st., N. Y.

S. W., of N. Y.—The camera-obscura is the best—the camera-lucida the cheapest; but there is a difference in the quality of instruments, just as much as in good and bad knives.

J. M. Jr., of Pa.—Use a very weak solution of glue, carefully put on, to cover your pencil drawings.

J. H. K., of Va.—Your plan of a blast for furnaces will work well enough, but a blower driven by the wheel, will do as well, and can be made and maintained at less expense.

J. S., of Ky.—Your book is much wanted; your questions you will find in another column. We have inquiries every week for a good work on millwrighting; there is not one in print.

G. P. E., of —Yours has been received respecting raising water for cattle.

G. A. B., of Me.—Your plan of increasing the buoyancy of vessels is an old one; some vessels are built in that manner.

W. R., of Ky.—You must use lead and leather for the valve of the air gun. The surface of the lead must be scraped perfectly smooth.

N. P. L., of Canada West.—We cannot tell you what is the best speed to drive your circular saw. You may drive it just as fast as you can lift it well hung. You need not be afraid.

E. R. R., & L. L., of Ill.—We have not answered you before, because the question, we thought, might easily be answered by asking yourselves, what is a wedge. Your rods certainly will not answer in the affirmative. If they are not levers what are they? As combined with the top lever they form a compound lever.

J. T., of Pa.—We discover nothing new or patentable in your power wagon.

S. F., of Me.—We have no statistics showing what the importation has amounted to from the countries you specify, for the years 52, 53, and 54.

H. F. B., of Ind.—Your letters patent, with ten dollars, came duly. Your engraving will appear in next week's paper.

J. P. N., of N. Y.—Making an eaves trough pipe small instead of large is not patentable.

X. C. S., of Vt.—You could not patent the application of a bow to a wood saw. It would not be considered the subject of a patent.

J. S., of Mich.—It takes about seven times the quantity of cold water to condense steam that you require for the boiler. You may save some of your steam by exhausting it in the cistern. If this does not answer your purpose, we do not advise you to try the condensing by a long pipe.

E. Z. F., of La.—You must try and establish your priority of invention as soon as possible, or your witnesses may soon be beyond your reach; it will then become public property, at present you could not use it with safety.

A. S., of Phila.—We have tried to get you a receipt for securing india rubber soles on leather shoes; we have been told that india rubber, cut in very small pieces, and some gutta percha, softened with warm turpentine, will, if laid upon the shoe, then heated with a hot iron, and the sole put on and pressed down, stick first rate.

S. D. C., of Wis.—Do you claim the plates secured to the wire, if so, we do not see how a patent can be obtained, the same principle is employed on all the telegraph lines.

A. W., of Ct.—When we replied to your inquiry in regard to alarm locks, there was evidently a mistake. We should have stated that an alarm lock (not clock) is an old device, several modifications having been made in locks of this character. The application of an alarm to a lock could not now be patented.

J. T., of Md.—Worm gearing for moving the carriage of a saw mill could not be patented. It has been used for analogous purposes.

W. C., of Mass.—We have some objections in our possession against the renewal of the Woodworth Patent, which we shall be very glad to furnish to those who may desire them. As we have but few, it is to be hoped that they will be faithfully used by those who call for them.

B. F. & Son, of N. C.—Our edition of the patent laws is entirely run through, and we are awaiting for some movement of Congress towards an amendment this Session. Whenever we get another edition ready you shall receive a copy.

T. G., of Ala.—W. M. Raymond & Co., 536 Broadway, this city, are the only agents we know of for the sale of Fisk's Metallic Coffins, in this City.

M. K. C., of Tenn.—Steam does not wind up when it exhausts, as you state; it rolls over and spreads out.

C. C., of New York.—You must use acid diluted with water for etching, and wash off a number of times. The final washing must be given with warm water.

J. T. W., of Ga.—If you could purify the water for your boiler before it is used, you would find it the best plan. We have no suggestion to make at present. You will find it a matter of safety to use lightning rods, even though your house is surrounded with trees.

J. H., of D. C.—We have not received the report mentioned in your letter. We arrived at the opinion you were in the right a long time ago. Ethnology is a useful science; we have never questioned that. The chemical tracts prepared for the Institute were very good, but might have been better; this we judge from the means we have of obtaining such information.

A. B. H., of Md.—We advise you to get a good steam engine, and not use your wheel any longer, as your supply of water is precarious.

R. G., of D. C.—The hot air engine is a defect for a certainty. We do not wish to kick at a dead lion. We have had enough of the subject to last us for a considerable time.

W. N. M., of Mass.—It will require many years of hard study for you to become acquainted with any single branch of practical chemistry.

T. W., of Texas.—Your method of extinguishing fires is neither new nor patentable.

F. F., of N. Y.—If we saw the model of your liquid manure wagon, we could speak more intelligently on the subject; from your sketch it appears to be good.

S. M. B., of Mass.—Yours will appear next week.

R. W., of Ind.—A cubic foot of water weighs sixty-two and a half pounds.

J. M. T., of Tenn.—Your invention appears to be a good one, and you should take measures as soon as possible to secure it by patent.

W. W., of N. Y.—Camphene will not explode in the liquid state.

Money received on account of Patent Office business for the week ending Saturday, Feb. 3:—

A. W., of O., \$55; C. C., of Mich., \$30; B. & C., of N. Y., \$100; B. B. & Y., of N. Y., \$30; E. F. B., of Ct., \$30; J. H., of N. Y., \$30; J. A., of N. Y., \$55; C. C. R., of Pa., \$10; T. J. K., of Pa., \$25; E. & C., of Tex., \$25; K. & F., of Mass., \$30; D. S. H., of R. I., \$30; A. B. C., of N. Y., \$30; J. U. W., of N. Y., \$150; J. B. T., of N. Y., \$30; M. S. K., of Pa., \$10; L. C. S., of Ct., \$30; A. L., of Pa., \$55; J. A., of N. Y., \$30; E. W., of N. J., \$25; H. & A., of N. Y., \$30; W. M., of N. Y., \$30; T. G., of R. I., \$30; G. L., of N. Y., \$55; T. M., of N. Y., \$30; J. M. N., of N. Y., \$25; A. D. R., of N. Y., \$245; R. J. M., of N. Y., \$30; E. B., of O., \$55; H. L., of N. Y., \$40; E. A. J., of N. Y., \$30; C. W. F., of Mass., \$45; S. H., of N. Y., \$30; A. M., of N. Y., \$25; J. M. B., of N. Y., \$55.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Feb. 3:—

W. L., of Md.; S. & W., of N. J.; I. W., of Wis.; I. R., of O.; A. W., of O.; B. & C., of Tex.; T. J. K., of Pa.; A. M., of N. Y.; C. W., of Tenn.; E. W., of N. J.; J. M. B., of N. Y.; C. M., of N. Y.

Important Items. MODELS.—We are receiving almost daily, models of inventions which have not the names of their inventors marked upon them. This usually prevents us from taking any notice of them whatever. 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 sometimes prevent the model from being mislaid.

BACK NUMBERS AND VOLUMES.—We have the following numbers and volumes of the SCIENTIFIC AMERICAN, which we can supply at the annexed prices:—Of Volume 5, forty numbers; price in sheets, \$1; bound, \$1.75. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Volume 7, all; price in sheets, \$2; bound, \$2.75. Of Volume 8, none complete, but about 30 numbers in sheets, which will be sold at 50 cents per set. Of Volume 9, complete in sheets, \$2; bound, \$2.75.

We are able to furnish all the back numbers of the present volume of the SCIENTIFIC AMERICAN, and to new subscribers we shall continue to send the back numbers as long as we have them, so as to render their volumes complete.

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.

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 bona fide acknowledgement of the receipt of their funds.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 4 lines, \$1.00; 8 lines, \$2.00; 12 lines, \$3.00; 16 lines, \$4.00.

Advertisements exceeding 16 lines cannot be admitted, neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before inserting.

American and Foreign Patent Agency.

IMPORTANT TO INVENTORS.—MESSRS. MUNN & CO., Publishers and Proprietors of the SCIENTIFIC AMERICAN, continue to prepare specifications and drawings, and attend to procuring patents for new inventions in the United States, Great Britain, France, Belgium, Holland, Austria, Spain, etc., etc. We have constantly employed under our personal supervision a competent board of Scientific Examiners, which enables us to dispatch with great facility a very large amount of business. Inventors are reminded that all matter entrusted to our care are strictly confidential, and hence it is unnecessary for them to incur the expense of attending in person. They should first send us a sketch and description of the invention, and we will carefully examine it, state our opinion, and the expense of making an application, if deemed new and worthy of it. 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 toward making an application.

Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the especial 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.

It is very important that trustworthy and competent agents should be employed in securing patents, as great care is necessary in the preparation of the papers, as well as integrity in taking proper care of the case until the inventor is duly invested with his legal rights. Parties intrusting their business in our hands can rely upon prompt and faithful attention. Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that the largest proportion of patents applied for in the U. S., go through our agency.

The offices of Messrs. Munn & Co.'s American and Foreign Patent Agency are at 135 Fulton Street, New York; London, 22, Strand; Paris, No. 29 Boulevard St. Martin; Brussels, No. 6 Rue D'Or.

TO ENGRAVERS AND CALICO PRINTERS.—The subscriber would like to sell State, county, or individual rights for his patent self-acting punching apparatus for shading small pattern and plain figured. It can be attached to any old screw machine for a trifling expense, and is warranted to give satisfaction or no pay. Reference, Messrs. Abbot & Saunders, Crimpton Print-works, Warwick, R. I. James Arthur, foreman engraver, Baxendale's patent eccentric doctor motion also for sale. For further particulars address JAMES BAXENDALE, care of B. Dean & Son, Providence, R. I. P. S. Wanted, an old second-hand screw engraving machine. 22*

PORTABLE STEAM SAW MILL ENGINES.—Silver Medals awarded by the Franklin Institute and Pennsylvania State Agricultural Society in 1851, 1853, and 1854. A number of these engines are now at work driving portable up and down, and circular saw mills, also mills where the water power has failed. Circulars by sending for them to the inventor, A. L. ARCHAMBAULT, 15th and Hamilton sts., Philadelphia, Pa. N. B. Portable engines always on hand. 22*

ELECTRO MAGNETIC MACHINES.—TELEGRAPH Registers, Receiving Magnets and keys manufactured and for sale at No. 37 South Seventh street, Philadelphia, by W. C. & J. NEFF. 22*

UNITED STATES PATENT OFFICE, Washington, Jan. 11, 1855.

ON THE PETITION of Lorin Coes, of Worcester, Mass., praying for the extension of a patent granted to him on the 16th day of April, 1841, for an improvement in "screw wrenches," for seven years from the expiration of said patent, which takes place on the 16th day of April, 1855.

It is ordered, that the said petition be heard at the Patent Office, on Monday, the 2nd of April next, at 12 o'clock, 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 filed 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.

The testimony in the case will be closed on the 22nd of March; depositions and other papers relied on as testimony, must be in the office on or before the morning of that day, the arguments, if any, within ten days thereafter.

Ordered, also, that this notice be published in the Union, Intelligence, and Evening Star, Washington, D. C.; Evening Argus, Philadelphia, Pa.; Scientific American, New York, and Boston, Boston, Mass., once a week for three successive weeks previous to the 2nd day of April next, the day of hearing.

CHARLES MASON, Commissioner of Patents. P. S.—Editors of the above papers will please copy, and send their bills to the Patent Office, with a paper containing this notice. 20*

TEVIS & BARBAROUX, LOUISVILLE, KY.—Manufacturers of Steam Engines, Mill Machinery, superior Force and Lift Pumps, cast iron Screw Pipes for gas, steam, or water, largely used by railroads in supplying water stations, or suction pipes for pumps, etc., etc., being cheaper and better than copper or lead. Tobacco, Lead, Timber, and Mill Screws, always on hand. Cast iron Railings, Railroad and Car wheels, other castings for railroads, and general job work. 20*

ANGLO AMERICAN AGENCY.—Office No. 20 Hatton Garden, London, for the introduction and sale by commission of American Manufactures, machinery, inventions, and articles suitable for the European and British markets. Parties desirous of introducing their goods to the notice of the European public, will find this the most advantageous, direct, and economical method. All communications must be post-paid, addressed to No. 20 Hatton Garden, London. 21*

NEW HAVEN MANUFACTURING COMPANY.—Machinery Tools. 65 Iron patterns of all sizes; 350 Engine and Hand Lathes, all sizes; 50 Upright and Horizontal Drills; 25 Bolt Cutters; 10 Gear Cutters; all kinds and sizes of Chucks, Slide Rests, Hand Drills, &c. These tools are of superior quality, and as they are built by the quantity, can be afforded and will be sold at low rates. For cuts giving full description and prices, address New Haven Manufacturing Co., New Haven, Conn. 21*

BOOTH'S PATENT GRAIN SEPARATOR.—Manufactured at Cuyahoga Falls, Ohio, warranted to be the best thing of the kind ever used for milling purposes, with horizontal and perpendicular blast, also improved shaking riddle of perforated copper, giving a smooth surface, cleans from 10 to 500 bushels per hour of wheat, corn and buckwheat. Sections where garlic, oats, smut balls, etc., are troublesome, it is indispensable to the manufacture of good flour. A more particular account will be given by addressing the manufacturer at Cuyahoga Falls, Ohio. J. L. BOOTH. 21*

CLIPPER AMONG THE MONTHLIES.—The Monthly Nautical Magazine, devoted exclusively to the Maritime interests of the United States, embracing ship-building, commerce, navigation, and marine engineering—will commence its second volume in April, 1855, enlarged to 92 pages. This work contains draughts of some of the finest vessels of the age, with other engravings, and is one of the most valuable publications in the country. Terms, single copies \$5 per annum, or \$2.50 per volume. Club Rates—Five copies for \$20; twelve copies for \$50. Sample copies sent when requested. Address GRIFFITHS & BATES, Editors and Proprietors, 79 John st., New York. 21*

OUR CATALOGUE, of Optical, Mathematical, and Philosophical Instruments, in pamphlet form; a new edition, with numerous illustrations, is now in press and will be issued in a few weeks. This Catalogue is furnished on application, and sent by mail to all parts of the United States and the Canadas free of charge. McALLISTER & BRO., Opticians, (Established in 1790,) at their new store, 194 Chestnut street, Philadelphia. 21*

PROFITABLE INVESTMENT.—Can be made by purchasing rights of any Patent Tanning Machine, patented Aug. 29th, 1854, pronounced by good mechanics to be the best machine in use; is adapted to all kinds of work including dunnage and cap tans for car and other heavy work, will do the work of from three to eight ordinary machines, can be set in one minute for boring or squaring the sole of a pair of lighter machines. Address C. P. S. WARDWELL, Lake Village, N. H. 21*

MODELS FOR INVENTORS.—CHARLES KIRCHOFF, Manufacturer of Models, Scientific, Philosophical and Artistic Instruments, Machines, &c., corner of West Broadway and Thomas street, New York. 19*

HUB MORTISING MACHINE.—Price Reduced.—We have finished a few of Roys and French's patent, undoubtedly the best machine for the purpose ever invented. We will take back the machine and refund the money, in all cases, if they fail to satisfy buyers. Wagon and carriage makers will do well to give them a trial. They will bore and mortise thirty to forty hubs a day, and answer also for other work. 20*

TO LET, WELL LIGHTED ROOMS with Steam Power—at low rates, in the new buildings 7, 9, 11, and 13 Canal, corner of Elm; and 98, 100, and 102 Walker. Apply to M. J. GAUDU, Engineer, 102 Walker st. 20*

MACHINE GROUND CIRCULAR SAWS.—(Patent applied for.) Mill men would do well to try these saws, are perfectly free from thin or thick places, can be used thinner and with less set, and run faster than any other hitherto made. All diameters and thicknesses warranted perfectly true. HENSHAW & CLEMSON, 31 Exchange street, Boston. 19*

THE FRENCH EXHIBITION.—Parties who have applied for space in the French Palace of Industry, and who do not intend to be present at the Exhibition, are recommended by the undersigned to arrange with Messrs. Gardissal & Co., No. 29 Boulevard St. Martin, Paris, who are prepared to put upon Exhibition, attend, and effect sales of articles intrusted to their care. It is a responsible concern. S. H. WALES, State Commissioner, Scientific American Office. 19*

BUFFALO MACHINERY DEPOT.—Terrace St. and 86 Lloyd st., Buffalo; J. W. HOOKER, Proprietor, H. C. Brown, Superintendent, offers for sale Machinists' tools of all kinds; Engine Lathes, Planers, Drills, Chucks, Boring Mills; also machinery of all kinds on hand or furnished to order. 71*

STAVE AND BARREL MACHINERY.—Hutchinson's Patent. This machinery which received the highest award at the Crystal Palace, is now in daily operation there. Staves, heading, &c., prepared by it are worth to the cooper 20 to 40 per cent. more than when finished in any other way. Special attention is invited to the improved Stave Jointer. Apply to C. B. HUTCHINSON & CO., Crystal Palace, or Auburn, N. Y. 13*

PATENT DRIERS.—Zinc Driers, Graining Colors, Stove Polish, Gold Size, &c., &c., 114 John street, New York. QUARTERMAN & SON, Manufacturers. 16m

HARRISON'S GRAIN MILLS.—Latest Patent.—\$1000 reward offered by the patentee for their equal. A supply constantly on hand. Liberal Commissions paid to agents. For further information address New Haven Manufacturing Co., New Haven, Conn., or to S. O. HILLS, our agent, 12 Platt Street, New York. 13*

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 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 State street, and Lowell, Mass. 16m

CHEAP LIGHT.—A. M. MACE, manufacturer of atmospheric or Benzole Gas Machines: size from 2 to 1000 lights. All orders promptly executed corner of Main street and Harrison avenue, Springfield, Mass. 15m*

MACHINISTS TOOLS.—SHRIVER & BROS., Cumberland, Md., (on B. and O. Railroad, midway between Baltimore and the Ohio River,) manufacturers of Lathes, Iron Planers, Drills and other machinists tools. 50m*

STATIONARY STEAM ENGINES.—The subscriber is now prepared to furnish, with or without pumps, boilers, &c., Horizontal Engines on iron bed frames, good strong, substantial, plain finished engines that will do good service, say from 4 horse, \$215, to 30 horse, \$1,037; they have Judson's patent valves, and will be warranted to work well. S. C. HILLS, 93wtf 12 Platt st., New York.

WIRE ROPE OF IRON AND COPPER.—For Mines, Inclined Planes, Hoisting and Steering purposes, Stays or Braces, &c., &c., much safer and far more durable than the best hemp or hyde ropes. Also for Sash Weights, Dumb Waiters, Lightning Conductors, &c. CHARLES W. COPELAND, No. 64 Broadway. 14cwtf

A. B. ELY, Counsellor at Law, 52 Washington st., Boston, will give particular attention to Patent Cases. Refers to Messrs. Munn & Co., Scientific American. 16 1/2*

VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Bogardus' Horsepower, Smut Machines, Saw and Grist Mill Irons and Gearing, Saw Gummers, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. 8 1/2* LOGAN VAIL & CO., 9 Gold st., N. Y.

NORTHVILLE MACHINE WORKS.—Manufacturers of Machinists Tools, consisting of Engine Lathes, Power Planers, Hand Lathes, Engine Lathes for turning chair stuff, all of the most improved patterns and quality of workmanship. Worcester, Northville, Mass., August 1854. TAFT & GLEASON. 50 1/2*