

Luther looked at all as represented, the features are those of a Dutch boor, not of the leader of a great reform; nor are those of the grave individuals sitting in judgment upon him much better. The whole piece is at least sufficiently gloomy.

No. 6 is a magnificent Dusseldorf, by Hesencler and Heppel, representing a deputation of workmen before the City Council in the German Revolution of '48. We could not avoid contrasting this with No. 1: the noble bearing of the laborer in his homespun garments, the bloated self-sufficiency of the principal personage of the Council (the very personification of a fat Alderman); indeed, the characteristic expression of all the features, render this, in our judgment, by far the superior of the two tableaux.

No. 12 represents the Angel of Death bearing away a departing spirit: Horace Vernier, of Paris. Exceedingly beautiful; the angelic face, the golden hair, the beam of heavenly light personify the poet's brightest dreams, but amid all this loveliness, there is one fault, which we think detracts somewhat from the effect of the piece—we cannot admire the taste of the artist in bringing the wings of the dread Angel in a position where the feathers upon them are so plainly shown. His features are as they should be, shrouded in gloom, and the wings should have been in a similar situation.

No. 14 is one of the Dusseldorf school, and represents "The Old Mill," it is by Nocken. It has, for a small painting being considerably celebrated,—it is certainly fine.

No. 27 is a Night Watchman, by Hesencler; graphic indeed, but where in the wide world did he find the original of that face—we have never seen its like.

No. 39 is the Good Samaritan, another Dusseldorf:—A fine piece, but where did the Samaritan get that glass bottle to contain his oil; if we remember rightly the bottles of those days were made of leather.

No. 47. A Mountain View in Norway. Another excellent Dusseldorf; though it has no remarkable excellences aside from the general effect, yet we observed no glaring faults.

TO CORRESPONDENTS.

D. A. M., of Pa.—The Convention at Washington would be a good place for you, if you can make an experiment; we will publish the results when all the information is obtained.

J. R. A., of N. Y.—Your plan for preventing the toe nails growing into the flesh at the sides, was one recommended to us some years ago, and we found it to be an effectual remedy. We are much obliged to you.

R. W., Jr., of N. Y.—You had better suspend the matter at present: it requires good management to make a patent successful.

M. W. S., of Mass.—The wedge brake is old and well known; the plan shown in your sketch is anticipated by B. Burling's invention, 1849; he never made application for a patent.

A. D., of Va.—We have never seen a device for breaking cars exactly like your, but it seems to be a crude affair—rather too complicated to answer a useful purpose. It has not much novelty.

D. F., of Me.—Webster's Dictionary contains all the terms used in mechanics. There is no special good work on this branch.

A. J. G., of Mass.—We should think your improvements in carriages to embrace novel features worthy of a patent. Send us a model.

E. W., of C. W.—The cost of an engraving will be \$10. I. W., of Wis.—Reid on Clocks and Watches, is the best work we know of in this branch; J. Mackie & Son, 117 Fulton st., sell it at about \$5.50. Your list received. All right.

S. T. C., of Mo.—We cannot give you the price of an engine: write to Aaron Kilborn, of New Haven, Ct., who advertizes in our columns.

W. W., of Ohio.—We presume you could procure space in the Palace by application to the proper superintendent.

W. H., of Geo.—The mortising machines are not sufficiently heavy for your purpose.

H. L. B. L., of Ohio.—The Index of all patents granted in England from 1815 to 1845, was published in 1849 by Alex. Macintosh. We do not know that it is for sale in this country.

J. R., of Ill.—We cannot find that any patent has ever been granted to Mr. Malony; we therefore infer that he has no patent.

A. T. D., of Ind.—Berdan employs the same device as you describe for crushing or breaking the quartz previous to submitting to the process of pulverizing and amalgamating.

J. S., of Geo.—As we understand your sketch, your saw is formed of two portions of a circular saw, made in sections, but operating on the same principle. We believe would be difficult to obtain a patent, although it may operate well. Your spider, as combined with the saw, we believe is patentable. Your blocks have been sent by Harnden's Express.

D. H. W., of Mass.—Your plan of a rotary engine is one of the oldest ever offered: it has nothing to recommend it.

A. W. McL., of N. S.—It would save us much valuable time if you could furnish us with the name of the patentee. Under the designation given to the patent we cannot conveniently give the required information.

G. W. H., of N. Y.—A horse power is a power that will raise 33,000 lbs. one foot high in one minute. There is no difference in the water power if applied in the same way to the wheel.

S. F., of Me.—We do not see the least chance of obtaining a patent for your electro-magnet engine; it operates by electro magnets attracting armatures, and then breaking the circuit alternately, to give a reciprocating motion to a beam. This has been done long ago. Your sketch and description are very imperfect, but we believe we understand you fully: do not expend your money on the project.

A. K., of Grand Rapids.—There is no good portable gas apparatus for family use that we know of.

M. & T., of N. H.—We cannot tell when your case will be examined; the engravings can be published after the patent issues. The cost will not exceed \$8. Patent Laws sent.

J. Z. A. W., of Phila.—There are some people who cannot be enlightened on any subject, and those who object to the depth of water increasing the pressure on the blade of your instrument, do not know what they are talking about. Even supposing the pressure to increase vertically with the depth, which it does; how can that effect its operation, when the pressure is equal on all sides? It cannot.

B. H. W., of Ill.—In shoe-blackening, instead of vitriol use vinegar: you will find it better for the leather. For tempering drills, the oil bath will not answer; we do not know of any superior plan to that of hard-heating—the old way.

C. K. W., of N. Y.—The points of copper lightning-rods can be plated with silver, but this is only to prevent their corroding; the silver is not so good a conductor as the copper. Do not be afraid of using the copper without being plated, only let the end in the ground terminate in a moist place about three feet under the surface.

W. E. G., of Phila.—The gum paste that you speak of is British gum. It will be cheaper for you to buy it. We had a letter from a correspondent last week about preserving gum arabic sweet; he perhaps mistook "diastase," which comes from England, for dissolved gum arabic.

H. T. R., of N. H.—We have not the information you solicit about the number of spindles now running. \$1 credited for six months subscription.

A. T., of Tenn.—We are not aware of any late work on street architecture. \$8 received.

M. M. M., of Vt.—C. W. Copeland, engineer, of this city can furnish you wire cable.

Money received on account of Patent Office business for the week ending Saturday, Sept. 24:—

G. M. R., of N. Y., \$20; G. R., Jr., of Pa., \$30; C. F. P., of Conn., \$25; T. & C., of —, \$35; W. G., Jr., of N. Y., \$35; F. M., of Ill., \$40; W. T., of Del., \$35; R. K., of Mass., \$30; J. W. S., of Mich., \$69; I. H., of N. J., \$50; J. P., of N. Y., \$30; D. & B., of N. Y., \$225; F. & R., of Va., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 24:—

W. C. W., of Mass.; I. M. H., of R. I.; E. M., of Pa.; G. C., of Me.; J. B., of Conn.

A Chapter of Suggestions, &c.

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 are ENTIRELY OUT OF STOCK: Nos. 2, 4, 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 25, 26, 48, 49.

READY FOR DELIVERY.—We have just received from the Binders 100 copies of Vol. 8, Scientific American, which will be sold to the first applicants at \$2.75 per volume. We also have about 50 complete sets of Volume 8, in sheets, which will be sold at the subscription price—\$2 per set. Those who apply first will stand the best chance to get their orders filled, for after the above number are sold no more can be obtained at any price.

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.

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.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price per line. 4 lines, for each insertion, 75 cts; 8 lines, for each insertion, \$1.50; 12 lines, for each insertion, \$2.25; 16 lines, for each insertion, \$3.00.

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.—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 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.

MUNN & CO., Scientific American Office, 125 Fulton street, New York.

EUROPEAN PATENTS.—MESSRS. MUNN & CO. pay especial attention to the procuring of Patents in foreign countries, and are prepared to secure patents in all nations where Patents are existing. 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.

EDITOR OF THE SCIENTIFIC AMERICAN.—I observe in your paper of the 17th a statement that E. H. Ashcroft has sent you a circular, with engravings, which present a steam gauge, calling it Fontain Moro's patent, similar to my gauge, which was illustrated in No. 54, Vol. 8, Sci. Am. I wish to inform you that Fontain Moro's gauge, as far as I know never produced a gauge like mine, until Mr. Ashcroft obtained one of my gauges of the Boston and Worcester R. R., where I sold it. Mr. A. requested an engraver to copy from it almost precisely, but put upon the dial 'Fontain Moro,' instead of J. L. Eastman. That is where that circular came from, presenting a gauge similar to mine. Will you please correct my gauge, as arranged, is the original. JOSEPH L. EASTMAN, East Boston, Mass.

UNITED STATES PATENT OFFICE, Washington, Sept. 17, 1853.

ON THE PETITION of James Baldwin, of Nashua, N. H., New Hampshire, praying for the extension of a patent granted to him on the 1st of January, 1849, for an improvement in shuttles for weaving cloth, for seven years from the expiration of said patent, which takes place on the thirty-first day of January, eighteen hundred and fifty-four—

It is ordered that the said petition be heard at the Patent Office on Monday, the 5th of January next, at 12 o'clock, M.; and that persons who appear 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, Pennsylvania; Evening Post, and Scientific American, New York; Boston Post, Boston, Massachusetts; and Patriot, Concord, New Hampshire, 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.

NEW BRICK MACHINE.—Now in successful operation at Baltimore—it is so simple that any intelligent negro can learn to manage it in two or three days. You have merely to shovel clay into a box, and attach a horse to the sweep. The machine tempers the clay and moulds the brick in the most perfect manner, such as most experienced hands can produce. When burned they are found to be stronger and more solid than those made in the usual way, because the clay is worked stiffer under the pressure of the screw than it is possible to mould it by hand. The clay is to be dug and left in soak all night. It then requires one man to shovel it in the box, a boy to put in the empty moulds, another to pass on the bricks, and a third to wheel them to the floor, a fourth to discharge them, a fifth as supernumerary, to wait on the rest—in all one man, a horse, and five boys, make from eight to ten thousand bricks per day. The gold medal was awarded for it by the Maryland Institute in November, 1852. Price of the fourmould machine, \$25; of the five mould machine, \$35. Patent for each machine. FRANCIS H. SMITH, Baltimore, Md.

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 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 lists sent if required. C. P. AMSELER, 224 Chestnut st., Philadelphia.

VALUABLE WATER POWER FOR SALE.—Situating in Stockport, Columbia Co., N. Y., 1-1/4 miles from a depot on the Hudson River Railroad, on a never-failing stream, now estimated to be of the capacity to run 600 power looms with all necessary machinery, and may be increased; dam built of stone, 19 feet fall. The improvements on one side consists in part of a building of stone and brick 118x47; over-shot wheel, nearly new, 14 feet diameter, 12 feet bucket; on the other, one of stone and wood 60x34, good over-shot wheel 14 feet diam. 7 feet bucket; with about 30 dwellings. Terms accommodating; title indisputable. Possession given immediately. For more particulars apply to R. B. MULL, of Hudson, N. Y., or H. S. VAN DE CARR on the premises.

DAGUERRETYPE.—"American Hand Book of the Daguerreotype," is the title of a new work by S. D. Humphrey; it gives many new and valuable recipes; the methods of preparing chemicals used in the daguerreotype, art, also the most approved plan for producing portraits. It is purely practical work, containing more really valuable information for the amateur or practical daguerreotypist than any volume ever before published. Single copies \$2; sent by mail free of postage. Address, S. D. HUMPHREY, New York City; TRUBNER & CO., 12 Paternoster Row, London.

MACHINERY.—S. C. HILLS, No. 12 Platt-st., N. Y. dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Knives, Van Nostrand's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniels', and Law's Planing Machines; Dick's Presses, Punches, and Shears; Morticing and Tennoning Machines; Belting; Machinery Oil, Beal's Patent Cob and Corn Mills; Burr Mill and Grindstones; Lead and Iron Pipe, &c. Letters, to be noticed, must be post-paid. 117

PLANING, TONGUING, AND GROOVING.—BEARDSLEE'S PATENT.—Practical operation of these Machines throughout every portion of the United States, in working all kinds of wood, has proved them to be superior to any and all others. The work they produce cannot be equalled by the hand plane. They work from 100 to 250 feet lineal measure, per minute. One machine has planed over twenty millions of feet during the last two years, another more than twelve millions of feet Spruce flooring in ten months. Working models can be seen at the Crystal Palace, where further information can be obtained, or of the patentee at Albany, N. Y. 117 GEO. W. BEARDSLEE.

A. B. ELY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs Munn & Co., Scientific American, 167

LEONARD'S MACHINERY DEPOT, 109, Pearl St., and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinist's Tools, a large assortment from the Lowell Machine Shop, and other celebrated makers. Also, a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. P. A. LEONARD, 117

LOGAN, VAIL & CO., No. 9 Gold st., New York.—Agency for Geo. Vail & Co., Speedwell Iron Works, Morristown, N. J., furnish and keep on hand Portable Steam Engines of various sizes, Saw and Grist Mill Irons, Hotchkiss's Water Wheels, Iron Water Wheels of any size, Portable Saw Mills, complete; Bogardus's celebrated Planetary Horse Powers; heating forgings and castings for steamboats and rolling mills, Ketchel Drills of superior quality for machinists, Saw Gummers, Hand Drills, Type Benders, and shafting and machinery generally. 39 1/2

CAUTION.—The public are hereby cautioned against purchasing or using Steam Gauges constructed on the principle of Fontain Moreau's Patent, or Bourdon's Patent, except that manufactured by the undersigned, who is owner of said patents for the United States. All infringements of said patents will be prosecuted according to law. E. H. ASHCROFT, Manufacturer of Steam and Water Gauges, No. 4 Beverly street, Boston. 147

NORCROSS ROTARY PLANING MACHINE.—Decided by the Circuit Court not to infringe the Woodworth Machine—I now offer my Planing Machines at a low price; they are not surpassed by any machines as to amount or quality of work. Tonguing and grooving machines also for sale, doing one or both edges as desired; 80 machines now in operation. Address me at Lowell, Mass. N. G. NORCROSS, 40 20\*

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 & Newell's Metallic Self-acting Centrifical Packing, Faber's Water Gauge, Sewell's Sainometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, &c., &c. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 30 26\*

MCCALLISTER & BROTHER.—Opticians and dealers in mathematical instruments, 48 Chesnut st., Philadelphia, Pa. Mathematical instruments separate and in cases, Spectacles, Spacing Dividers, Drawing Pens, Ivory Scales, Time Measures, Sainometers, Spy Glasses, Microscopes, Hydrometers, &c., &c. An illustrated and priced catalogue will be sent by mail free of charge. 40 6m\*

A GOOD CHANCE FOR MANUFACTURING.—A Water Privilege of ten feet fall, on a never-failing stream, with four acres of choice land, in the town of Cornwall, Orange Co., N. Y., 5 miles from the North River, and three miles from the railroad depot, and on the line of the Albany and Hoboken R.R. For particulars inquire of John J. Vanduzer, 184 Canal st., N. Y., or John Orr, on the premises. 41 13\*

ATKINS' SELF-RAKING REAPER.—The unequalled success of this machine, both in grain and grass, and the information already received from agents, shows the demand another season will be more than I can supply. Every reaper heard from (about 20 in every different States and Canada) gives good satisfaction with no drawbacks, though others to hear from may have given trouble. Arrangements must be made to supply the demand, and the inventor (Mr. Atkins) would like to realize something from the Patent at once, and part of the States may be offered for sale. If satisfactory price cannot be got, then arrangements may possibly be made with manufacturers to build and pay a patent fee. A machine can be seen at the Crystal Palace, and others will be at some of the State and County Fairs this autumn. J. S. WRIGHT, "Prairie Farmer" Warehouse, Chicago, Ill., August 6, 1853. 50 5\*

PALMER'S PATENT LEG.—Manufactured by Palmer & Co., at No. 5 Burt's Block, Springfield, Mass., for New England and New York States, and 376 Chesnut street, Philadelphia; in every instance of competition in the Fair of the various Institutes of this country, it has received the highest awards as "the best" in mechanism, usefulness, and economy. At the "World's Fair," London, 1851, in competition with thirty other varieties of artificial legs, (by the best artists in London and Paris,) it received the Prize Medal as the best. 48 10\*

NORRIS WORKS, Norristown, Pa. The subscribers build and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every description. 41 1/2. THOMAS, CORSON & WEST.

PIG IRON.—The subscriber has always on hand a stock of the best brands of American and Scotch Pig Iron, for sale at the lowest market price. G. O. ROBERTSON, 135 Water st., cor. Pine, N. Y. 18\*

ARON KILBORN, No. 4, Howard street, New Haven, Ct., manufacturer of Steam Engines, Boilers, &c. Noiseless Fan Blower, a superior article, for smith's work, steam engines, brass and iron foundries, and machinery in general. 51 10\*

IRON FOUNDERS' MATERIALS, viz: Pulverized Sea Coal, Black Lead, Soapstone, Anthracite and Charcoal Facings. Also, best imported Fire Bricks, Fire Clay, Fire Sand, and Moulding Sand, for sale by G. O. ROBERTSON, 135 Water street, corner of Pine. 18\*

STEAM ENGINES AND PUMPS FOR SALE.—Two new high pressure Steam Engines, 16 inch bore of cylinder and 62 inch stroke of piston, 3 cylinder boilers to each engine 3 feet diameter and 40 feet long. Also two double acting Force Pumps, 10 inch bore and 4 feet stroke, fitted with gun metal valves, valve seats and packing. The above machinery is constructed of the best material and workmanship. Address BRKINBINE & TROTTER, Engineers and Machinists, No. 16 Arch street, Philadelphia. 14\*

ALDEN'S PATENT FAN BLOWER.—Gives a stronger blast, with less power than any other. J. B. CHICHESTER, Agent, 58 1/2 Broadway, N. Y. 26\*

C. B. HUTCHINSON'S PATENT STAVE Cutting Machine.—The best in use, and applicable alike to thick and thin staves, for barrels, hogheads, &c.; also his Head Cutting and Turning, and Stave Jointing and Crozing Machines. This machinery reduces the expense of manufacturing at least fifty per cent. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 211