Scientific American.



J. P., of N. Y.—Colza oil is held to be superior to sperm for light-houses. Rape seed oil, when purified, is very good for illumination, and is similar to Colza oil. Sunflower oil is of greater specific gravity, contains more solid matter, and does not burn with such a clear flame. The purifying of these vegetable oils is somewhat expensive. J. S. of Mass.-Yours will be attended to as soon as pos

W. B. of Ohio.-We do not know of any fire-

varnish that is elastic, and fit for coating a balloon. W. McC., of Pa.-We do not know that we shall publish an engraving of Breed's Wagon Brake. If you to get full particulars in regard to this invention, you had

better order a copy of the patent from Washington.
S., of Va.—We are not aware that any patent has

been issued of late for an improvement in steam plows.
O. O., J. H. W., and other anonymous correspondents are respectfully informed that we will not answer letters not accompanied with the writer's name. We have a right to know the names of those who apply to us for information.

J. D. M., of Vt .- We are unable to give the informs tion you want about hay fork makers, and dealers in mallet and auger handles. We are not personally ac-quainted with any one engaged in such business.

S. C. Brinson, Middletown, Pa., wishes to correspond with some manufacturer of malleable spring wire for horse rakes.

A. D. R., of Ill — Your plan of laying R. R. tracks i verygood. The chief objection is the expense. It is not

patentable; no company would ever adopt it.

1. A. H., of Wis.—We are not acquainted with anymeth od of dissolving glue in oil, for coating patterns. Coatthe patterns with glue first; allow them to-dry, and then apply the oil. This may answer the purpose mentioned by

-'That scissors can be made of cast-iron we never doubted, for that is an easy matter, but tha such articles should be manufactured and sold, we hesitated to believe; they must be as poor in quality, as cast

B. M. G., of Pa.-The only way to support your crane is to sink it deep into the ground. Iron cranes are all supported at the base. A solid foundation and a well secured bed plate support the upper parts of the crane,

and allow it to swinground freely.

M. K., of Ind.—You will obtain, we think, a greater velocity of water in the pipe, than in the open drain. The only difference between the two methods is the friction the pipe is surely much smoother than the drain, and therefore should offer less resistance to the passage of the

J. S., Jr., of N. H.—There are various works on the Marine Engine. Scott Russell's contains good drawings of the side lever engine, but no other kind. Itis published in London, the price we do not know: no American work has been published on the subject. Tredgold on the steam engine is the most extensive and complete work you could obtain, but its price is high—more than \$50. It can be obtained in this city.

S. N. D., of N. Y .- Owing to the great speed of a railway train, it would be very difficult to operate your catch springs, to li t persons from the track. The force of the train would throw them up into the air high and dry.

J. M;, of Cal.-We have entered your name on our subscription list for the balance of the \$3 paid by you fo information not given.

J. G., of Brooklyn-We can discover nothing new or patentable in your washing machine. Stewart's ma chine, illustrated a few weeks since, is contrived on the

G. G. S., of Ohio.-We do not know where obtain a good hand-book for the mechanic and artisan.

J. G., of Mo.—Would you be pleased to give us a brief account of the manner of setting boilers, to which you have alluded.

S. B. K., of Mich.-You are entitled to 5 additional copies for one year each. Please send along the names. J. R. E., of La.-You will find a description of the Lithographic Art in the second volume of Ure's Diction

ry. The price of the work is \$6.

J. W. P., of N. H.—See engraving of Gang Plow, late published in our paper We have published a number of illustrations of improvements intended to accomplish the

Richard Shaw, of Perth, Canada, wishes to procure machine for turning spokes for carriages to be driven by

J. R., of Ohio-Address Joseph Lewis, gunsmith, N 14 Pellstreet, this city. Mr. W. James, of Utica, N.Y., makes excellent rifles.

Money received at the Scientific American Office on account of Patent Office businessfor the week ending

J. P., of N. Y., \$30; A. R., of N. Y., \$30; J. V. J., of Mich., \$25; R. D., of N. Y., \$35; J. P., of Conn., \$12; J. A. & Co., Eng., \$101; J. B. E., of N. Y., \$25; E. A. C. of Conn., \$30; J. L. H., of N. Y., \$30; J. P. T., of Ill., \$25; J. H. Y., of Mo., \$10; C. W. G., of Conn., \$25; M. & C. P., of Md., \$25 : J. J. P., of Ohio, \$30 : W. G. B., of Ala., \$12; T. D., of Va., \$25; T. S., of Conn., \$30; J. W. H., of N. Y., \$25; R. P. B., of Ohio, \$25; L. T. M., of ____, \$10; B. G. A., of Ohio, \$25; H. M., of Miss., \$25; J. _____, \$10; B. G. A., of Ohio, \$25; H. M., of Miss., \$25; J. A. D., of N. Y., \$30; J. C. B., of Conn., \$40; J. B. D., of Tenn., \$15 ; K. G., of Pa., \$30 ; H. W. B., of N. Y., \$25 ; W. B., of L. I., of \$55 ; W. D., of L. I., \$100 ; E. P. & J. N. C., of N. Y., \$30 ; J. P., of Pa., \$25 ; S. W. R., of Mass, \$25 ; V. & B., of N. Y., \$30 ; H. W. B., of N. Y., \$55 ; N. & Co., of London, \$100 ; W. C., of Ala., \$30 ; O. W. S., of Conn., \$45; H. R. H., of N. Y., \$37; J. L. M.,

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 13th:—

J. L. M., of Pa.; R. P. B., of O.; B. G. A., of O.; H. of Miss.; J. C. B., of Conn., 2 cases; R. D., of L. I.; J. H. H., of N. Y.; J. P. of Conn.; L. J., of N. Y.; J. P., of Pa.; S. W. R., of Mass.; T. D., of Va.; J. V. J., of Mich.; J. B. E., of N. Y.; C. W. G., of Conn.; T. F. T. of N. Y.; M. & C. P., of Md.; J. P. T., of Ill.; H. W. B., of N. Y.; W. D. W., of Ohio; J. B. D., of Tenn.; H. R H., of N. Y.

Literary Notices.

IRVING'S LIFE ON WASHINGTON.—The second volume of the popular edition of this incomparable work has just been published. It is embellished with a fine portrait of Maj. Gen. Philip Schuyler. It covers a period, beginning with the assumption of the command of the American armies by the immortal Washington, down to the time of the battle of Princeton. Many interesting facts, incidents, and details, never before made public, are presented, clothed in the charming language and style so peculiarly belonging to the stifted author. G. P. Putnam & Co., Publishers, \$21 Broadway, N. Y. Price \$1.

MY COUSIN NICHOLAS—By Rev. Richard Barbour.—
This is a highly interesting tale of fiction from the pen
of a graceful and accomplished writer. The "Ingoldsby
Legends," everywhere well known, are the productions
of this author. The present work will find thousands of
readers. Ross & Tousey, 103 Nassau street, New York,
publishers.

Important Items.

ors, in constructing their models, should bear in mind that they must not exceed a foot in meas urement in either direction. They will also remember that the law requires that all models shall be neatly and substantially made of durable material. Ifmade of soft wood they should be painted or stained 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 LAWS AND GUIDE TO INVENTORS. phlet contains not only the laws but all information touching the rules and regulations of the Patent Office Price 12 1-2 cents per copy. A Circular, giving in structions to inventors in regard to the size and proper tion to an applicant for a patent, is furnished gratis at this office upon application by mail.

RECEIPTS—When money is paid at the office for subscrip tion, a receipt for it will always be given; but when sub scribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgment of the receipt of their funds.

FOREIGN SUBSCRIBERS-Our Canada and Nova Scotis patrons are solicited to compete with our citizents for the valuable prizes offered on the next 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.]

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 paten when known, and enclosing \$1 as fees for copying.

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 binding75 cents.

INFALLIBLE RULE—It is an established rule of this office to stop sending the paper when the time for which is was prepaid has expired, and the publishers will not deviate from that standing rule in any instance.

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

Terms of Advertising.

Twenty-five cents a line each insertion. We respect fully request that our patrons will make their adver tisements as short aspossible. Engraving scannot be ad mittedinto the advertising columns.

Alladvertisementsmust be paidf or before inser

IMPORTANT TO INVENT-

IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had Tex 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, we week, are on cases which are prepared at our Agency.
An able corps of Engineer, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shrest notice, while the experience of a long practice, and facilities which few others possess, we are able tog yive the most correct counsels to inventors in regard to give the most correct counsels to inventors in regard to give the most correct counsels to inventors in regard to give the most correct counsels to inventors in regard to give the most correct counsels to inventors in regard to give the most correct counsels to inventors in regard to give the most correct counsels to 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 full particulars address (necessity of the patents ability of 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 scene a patent can be arranged by little and the proposal will be steps necessary to scene a patent can be arranged by little and the proposal will be steps necessary to ceight harded thorough us, with inventors a total cordially invited to place their model and residue that they continue to a constant experience of a long practice, or or over at home or abroad. But small particulars address lengths, and the steps necessary to receive the most correct counsels to meet a subject of the proposal will be proposal will be steps necessary to score a patent and because of the internal patents of the proposal will be

DROCKLYN WATER WORKS.—NOTICE TO MACHINISTS.—Sealed Proposals will be received at the office of the undersigned. No. 4 Wall street, New York, until October 1st, 1853, at noon, for the construction of two pumping Engines—Cornish or equal to Cornish, for the Brocklyn Water Works, of capacity to raise ten millions (N. I.) gallons daily each; 170 feet high, with three boilers each; to be built and erected complete on the stone foundation prepared for them, and to be of first class workmanship.

Drawings in detail, accurately defining the style and character of Engines and appurtenances to be submitted by the proposers, with description. Specifications and further information may be had at the office of the Chief Engineer, James P. Kirkwood, Esq., No. 4 Halsey's Buildings, Brooklyn, or of the undersigned. The right is reserved to reject any of the proposals made.

H. S. WELLES & CO.,

No. 4 Wallstreet, New York.

CDOUGALL'S PATENT DISINFECTING
POWDER.—The cheapest and most efficient disin-POWDER.—The cheapest and most efficient disinfectant yet produced—contains no corrosive ingredients and may be safely used in dwelling-houses and nurseries also stables, &c., as this disinfector greatly improves the quality of all maures for agricultural purposes. Sold in packages by all Druggists. E. HAYNES, 103 Beckmar street, N. Y., Agent for the United States.

FOR SALE—A large Double Geared Lathe, swings P feet by 25 feet; to be sold cheap. Apply at the Phænix Foundry, corner of West and Vestry streets, New York.

W. ROBINSON'S PATENT HEAD TURN-ING AND PLANING MACHINE, for Heads of all kinds and descriptions; it will make from 200 to 350 heads per hour, of the most perfect description. There will be one on exhibition at the Crystal Palace, N. Y. at the Fair of the American Institute, in October, where those wishing for Machines or State rights can see it in operation and judge of its merits for themselves. All communications in relation to machines and rights should be addressed to ROBINSON, SCRIBNER & CO., Keeseville, EssexCo., N. Y.

PLOWING MACHINERY FOR SALE—A pair of double acting Blowing Cylinders 42:30 inches, in perfect order. Also a horizontal Steam Engine, 16x36 inches, at the Atlas Foundry, foot of Wayne street, Jersey City.

A GENTS WANTED—WESTCOTT, COGSWELL & CO., manufacturers of Westcott's Railway Door A & CO., manufacturers of Westcott's Railway Door Springs, are now prepared to offer the most perfect arti-cle yet invented. Agents wanted in every county of un-sold territory in the United States and Canada. For agencies or rights, address E. H. BABCOCK. General Agent, No. 3 Cortland st., N. Y.

Agent, No. 3 Cortland st., N. Y.

**PATENT DECISION—To the Editors of the Scientific American—The statement in your paper of this morning in regard to the verdict of the jury in the case of George Page vs. Georgia, is a perverted one. It is true that the verdict was in favor of the defend ant, but not upon the ground stated in the Elmira Advertiser, which you copied. On the first ballot of the jury there were? for the plaintiff and 5 for the defendant.—The jury then proceeded to take up each question separately: First, they passed upon the question of priority of invention, and decided in favor of plaintiff, George Page. The next question was, Did the defendant infring the patent? Upon this question the jury stood 8 for plaintiff and 4 for defendant, and so stood until 5 o'clock in the morning, and ultimately brought in a verdict for defendant, who swore that he had tended the mill from the time it stared, and that it never had end-play. And as this formed the essence of the infringment, and it was not proven by the witnesses of complainant that the mill had been worked with end-play, though the fact is notorious that it had been so worked, the jury found for the defendant, though they unanimously decided that the priority of invention belonged to George Page, thereby sustaining the validity of his patent.

GEORGE PAGE & CO.,

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 514*

A LEXANDER'S COMPOUND Parallel Sawing Machine, for making lath from the slab or board cross-cutting ripping, and sawing miter, all combined in Achap, simple and compact manner, is illustrated in No. 50, Scientific American. Sash factories, cabinet shops, carpenter shops, etc., should have these machines. Price \$60. Country and State rights for sale. Address (PHOS. J. ALEXANDER, Westerville, Franklin Co., Ohio.

ACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufactured of vulcanized rubber is established. Every belt will be warranted superior to leather, at one-third less price. The Steam Packing is made in every variety, and warranted to stand 300 degs. of heat. The hose never needs oiling, and is warranted to standauy required pressure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be obtained by mail or otherwise, at our warehouse. New York Belting and Packing Co., JOHN H. CHEEVER, Treasurer, No. 6 Deystreet, N. Y. 48 10*

No. 1.—\$500,000 VALUABLE TO EVERYbody. A few weeks ago CHARLES BRADFIELD,
of Philadelphia, opened a new Agricultural Implement
Store at Fifth and Chestnut streets. One spacious room
he appropriated entirely to new inventions. See below.

No. 2.—INVENTORS, PATENTEES, &c., were

EISSENBORN'S PATENT INCRUSTATION

Preventer.—Among the testimonials to the great success of this invention, read the following from William Burdon, 102 Front st. Brooklyn.—'I am perfectly satis fied with its operation. I believe it is the only machine yet invented that will entirely separate lime and other impurities from the water, when using hard water." In addition to this, it is the best water-heater, and a superior condenser. All parties are warned against infringements on the patent.

STEWART KERR, Agent, 475eow*

17 Broadway, New York.

WELLS & CO., Florence, Hampshire Co., any size (single or double) of Well's Patent (Improved) premium Circular Saw Mills, which take the lead of all other mills in market for manufacturing lumber. Also Morrison's Shingle Machines, which rive, shave, and joint perfectly, 60 shingles per minute.—Self-Setting, Shingle, and Lath Sawing machines, capable of sawing 1000 shingles per hour, or 4000 lath per day. Cuts, and List of Prices sent by mail when deisred. 45 êtewo

Maryland Institute for the Promotion of the Mechanic Arts will be opened at the Institute's spacious hall, Baltimore, on Wednesday, Oct. 1st, and continue to Oct. 29th, 1856. Goods for exhibition and competition will be received at any time prior to Friday night, Sept. 26th. after which for exhibition only, except such as the Committee shall be satisfied were dispatched in time to have reached the Hall by that day, but failed to do so from unavoidable detention. The co-operation of the manufacturers, mechanics, artists, and the community generally is respectfully solicited. Circulars embodying the reg lations and blank applicatios for space, with all other information, will be promptly furnished by application to John S. Selby, Actuary of the Institute.

JOSHUA VANSANT.

Chairman of the Exhibition Committee.

Charman of the Exhibition Committee.

CHRCULAR SAWS—We respect Illy call the atten tion of manufacturers of lumber to the great improvements recently introduced in the manufacture of our Circular Saws. Being sole proprietors of Southwell's patent forgrindingsaws, we are enabled to grind circular saws from six inches to six feet with the reatest accuracy and precision. The impossibility of grinding a saw without leaving it uneven in thickness has always been acknowledged by practical saw makers. This causes these we expand as soon as it becomes slightly heated in working. When this takes place the saw loses its stiffness, and will not cut in a direct line. We will warrant our saws to be free from these defects; they are made perfectly even in thickness, or gradually increase in thickness from the edge to the center, as may be desired. As there are no thick or thin places, the friction on the surface of the saw is uniform, consequently it will remain stiff and true, and will require less set and less power. Will saw smooth, save lumber, and will not be liable to become untrue. This is the oldest etablishment now in existence for the manufacture of circular saws in the United States, having been established in the year 1830. Orders received at our Warehouse, No. 48 Congress st., Boston, 44 13 *

NIT'FING MACHINES—Circular and straight knitting machines of all sizes and gauges on hand and made to order. WALTER AIKEN, Franklin, N.H. 46 13*

PAGE'S PATENT PERPETUAL LIME KILN, will burn 100 barrels of lime with three cords of wood every 24 hours, likewise my coal kiln will burn 150 bushel with 1 tuh bituminous coal in the same time; coal is not mixed with limestone. Rightsfor sale.

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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.

OLD 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.

VAIL'S CELEBRATED PORTABLE STEAM
Engines and Saw Mills, Bogardow Horsepowers,
Smut Machines, Saw and Grist Mill rons and Gearing,
Saw Gunmers, Ratchet Drills, Mill rons and Gearing,
Saw Gunmers, Ratchet Drills, &c. Orders for light and
heavy forging and castings executed with dispatch.
LOGAN & LIDGERWOOD,

13 1y*

TILMER & CO., Electrotypers, and Manufacturers of Electrotype Materials, 128 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. machines also for sale.

DAGE'S PATENT CIRCULAR SAW MILLS with Steam Engine and Boiler, on hand and for sale for \$1500, at \$chenck Machine Depot, 163 Greenwich st. New York. A. L. ACKERMAN. 49 10

CIRCULAR SAW MILLS—The subscriber has on hand, and is constantly manufacturing those celevated mills with saws from 30 to 80 inches diameter, adapted to manufacturing most kinds of lumber, and warranted to give satisfaction. For prices, &c., address W. HERRICK, Northampton, Mass.

PARREL MACHINERY—CROZIER'S PATENT is unrivalled in point of quality and quantity of work performed, and may be seen in constant operation at the Barrel Manufactory of the undersigned. For rights and machines address

WELCH & CROZIER, 48 18*

Oswego, N. Y.

TO CAR RUILDERS—For Sale, one new Upright Boring Mill for boring car wheels. Maker's price \$600, will be sold for \$800 cash. Address GEO. S. LIN-COLN & CO., Hartford, Ct. 43tf

Machine, made by the New Haven Manufacturing
Co. Cost \$500, will be sold for \$500 cash. Has been used
only about four months. Also an upright drill by the
same makers. Cost \$90, will be sold or \$40 cash. Address
GEORGE S. LINCOLN & CO.,
47 tf
Hartford, Conn.

BOILER FLUES—All sizes and any length prompt-lyfurnished by JAMES O. MORSE & CO., No. 79 John st., N. Y.

WROUGHT-IRON PIPE—Plain, also galvanized inside and outside, sold at wholesale by JAMES O. MORSE & CO., No. 79 John st., N. Y. 51 3mos

PORBES & BOND, Artists, 89 Nassau st, N.Y., Me-chanical and general Draughtsmen on wood, stone, &c.

OIL! OIL! OIL!—For railroads, steamers, and for machinery and surning—Pease's Improved Machinery and Burning Oil will save fifty per cent., and will not gum. This oil possesse qualities vitally essential for lubricating and burning, and found in no other oil. It is of fered to the public upon the most reliable, thorough, and practical test. Our mostkillful 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. And W. S. ROW LAND & CO., Agents for Chicago, Ill. N. B.—Reliable orders filled for any part of the United States and Europe.

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 1 not an infringement of the Woodworth Patent.

Rights to use the N. G. Norcross's patented machine can be purch ased on application to N. G. NOR CROSS, Office for sale of rights at 27 State street, Boston, and Lowell, Mass,

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.

HARRISON'S 30 INCH GRAIN MILLS—La-test Patent.— A supply constantly on hand. Price \$200. Address New Haven Manufacturing Co., New Haven, Con. . 31tf

Oil ER IN RUSTATIONS PREVENTED—A simple and cheap condenser manufactured by mn. Burdon, 102 Front st., Brooklyn, will take every particles of lime or salf out of the water, rendering it as pure as Croton, before entering the boiler. Persons in want of such machines will please state what the bore and stroke of the engines are, and what kind of water is to ensed