# Scientific American.

#### TO COBBESPONDENTS.

J. F. H., of . -.-We have seen colors made by all the means and from the matters you have described. excepting the sample from hydrofluosilic acid. We do not know the price of the best prussian blue. We be lieve it requires iron to produce it; all common nitric acid contains some iron. The discovery may be new to you. Royal blues are now dyed on wool by the use of yellowprussiate of potash, tartar, hydrochloric and ni tric acids.

N.A.K., of La .- It is very difficult to understand your meaning, but we suppose that you want to know the balance pressure for the valve, so as to get the proper area of piston; that area must be equal to that o the valve, if the pressure is the same on both.

M. K., of Ind .- We have not yet been able to satisfy ourselves about the best limekiln for your purpose.

S. B. P., of N. Y.-We do not know of any work upon bird stuffing which can be relied upon. We presume there is no publication devoted to this art.

J. W. C., of Pa.-We can give you the name of Wm Silver, Jr., Pittston, Pa., as a manufacturer of powder The information which you need he may be able to supply.

G. O. B., of Va .- One of the best brick machines in use in this section is R. A. Ver Valens', made at Haver-straw, N. Y. It is well liked in this section, but we are not certain that it will suit your region; you had bet-ter apply to him for more information. Francis Smith, of Baltimore, Md., has a very good machine. which is muchused in the South. We are obliged to you for the information about gold mining.

G. F. H., of R. L-If the wheel is perfectly inelastic its top will move in unison with the bottom; if elastic, it has a tendency to move faster. All parts, top and bottom, of common carriage wheels move with the same

T. B., of Brooklyn-Your proposal is a good one, but it appears to us that we have read of the floors of houses in Paris being constructed in the same manner. We cannot lay our hand on the information at present Your composition for the bedding is good. We should like to see your plan carried out in all buildings.

E. G., of N. J.-Did you suffer the india ink to dry thoroughly before you attempted to wash it out? W. can show its indelible qualities on some of our draughts men's shirts that bave been washed a g times. See Dr. Ure on French indelible ink a great many

J. B. T., of Miss.-Yours is a singular question, name ly, whether a bell hung high or low will be heard furtherest. If a bell were hung a mile high it would not be heard so far away as one 100 feet high; neither would one if hung low down in a valley. A bell should be hung above the hight of surrounding houses, trees, &c., that

E. P., of Phila.-There is paper to be purchased at various stores for taking the impression of leaves; it is of all colors. We cannot give you an opinion which is the best work on American Botany.

O. B. O., of Pa.-Salt water is employed in boilers of ocean steamers ; excepting a few that may have outside condensers.

C. M., of Pa.-Your fall being 118 feet, and the quan tity of water falling per second, being 41-2 gallons, the nominal power of the water is 9 horse. A hydraulic engine well made, might be of considerable benefit to

F. G. G., of N. Y.-The best red ink for printing is carmine : you can mix it with any quick dryer.

Money received on account of Patent Office business for the week ending Saturday, May 6 :-

W. S., of N. J., \$55; W. B. B., of N. Y. \$20; H. & J. B. of Ct., \$30; T. E. R., of N. Y., \$39; W. H., of N. C., \$30 N. F. M., of R. I., \$25; D. K., of Ind., \$30; H. F. B., of Ind., \$55; J. 8-B., of Ohio, \$25; N. W., of Ct., \$25; E. 0. P. A., of Mass., \$25 ; J. L. R., of Mass., \$39 ; E. W. G., of Mass., \$15 ; M. V. B. D., of R. I., \$30 ; R. L. S., of Pa., \$30 ; W. J. S., of N. Y., \$30 ; A. H. B., of N. J., \$350 ; J. P., of N. Y., \$60; W. H. W., of Pa., \$30; D. & Co., of N. Y., \$25; W. D. A., of N. Y., \$55; C. R., of Ga., \$40. J. C. R., of Ind., \$25; R. M., of Ohio, \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, May 6 :-

W. G., of N. Y.; J. S. B., of O.; N. F. M., of R. I. ; J. C. R., of Ind.; S. F., of Ct.; E. W. G., of Mass.; W. D. A., of N. Y.; N. W., of Ct.; J. J. W., of L. I.; A. V., of O.; E. O. P. A., of Mass,

A Chapter of Suggestions, &c

PATENT LAWS-The seventh edition of the American Patent Laws and Guide to the Patent Office, publish ed by us, having been exhausted, we shall not be able to furnish orders under tendays or two weeks. Those who have remitted money for copies will be supplied immediately on the issuing of a new edition.

PATENT CLAIMS-Persons desiring the claim of any inven tion 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.

PATENTERS-Remember we are always willing to execute

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Terms of Advertising. 4 lines, for each insertion 75 cts	paten impro the ex

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columns at any price. All advertisements must be paid for before insert

ing.

### American and Foreign Patent Agency.

Agency. MPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chem-ical 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 Having Agents located in the chief cities of Europe, out facilities for obtaining Foreign Patents are unequal-det. This branch of our business receives the especial attention of one of the members of the firm, who is pre-pared to advise with inventors and manufacturers at all times, relating to foreign Patents and manufacturers. MUNN & CO., Scientific American Office 128 Fulton street, New York.

A RARE CHANCE-For sale, a Patent Right re-cently granted for a most useful invention. For further information address "W.L." No. 8 Christopher st, where a machine may, be seen in operation. 1

To CANDY MANUFACTURERS-For 'sale or rent a beautiful three story brick dwelling and store house, together with a two story brick shop, used for the manufacture of candies. The whole is well built and finished, and the shop has furnaces all in working order. The store room is handsomely furnished with glass casing, shelving, counters, and two superb bow windows, and handsome gas light fixtures. Pessession of the store room, cellar, and shop can be had imme-diately. Terms reasonable; price \$5000; rent \$300, or for store room, cellar and shop, \$200. Address, post paid, A. F. WARD, York, Pa.

MOOTHING IRONS-To any person who will for-MOOTHING IRONS-To any person who will for-ward me \$10, I will forward a set of patterns and a right to sell one thousand of my Flat.Iron Heaters any where in the United States, excepting in the cities of New York, Brooklyn, and Williamsburgh, N. Y., and the States of Massachusetts and New Hampshire, pro-vided they shall not sell the same for less than 75 cents a-piece. Town rights in Massachusetts and New Hamp-shire for sale. Agents wanted to sell rights in the Mid-dle and Western States, to whom liberal commissions will be allowed. Money can be sent by mail at my risk. Address F. S. COBURN, Ipswich, Mass, 1<sup>s</sup>

MECHANICAL ENGINEER-offers his services as Engineer and Draughtsman in a Foundry and Machine Shop, references will be given ; inquire at this this office. 34 2<sup>s</sup>

**FOR SALE**—By the Baltimore and Ohio Railroad Oo, 24 Orate Cars, adapted to railroad purposes, which will be sold at a reasonable price. For further in-formation apply to SAMUEL J. HAYES, M. of M., Balti-more and Ohio R. R. Co., or BRIDGES & BRO., 45 Ful-tion st., New York.

**GRIFFITH'S PATENT VALVE COCKS for Steam Cargines, dyeing establishments, or Chemical Works,** They are warranted superior to any valve or cock in use. They are easily repaired without taking them from the pipes, they are made any size from 3-8 in. up to 1-2 in, either screwed or with flanges. Responsible agents for the sale of these valves wanted in New York. Boston, Pittsburg, and all the principal cities in the Union. The rights to manufacture in the different States for sale. Parties interested will address J. GRIF-FITHS, City Tube Works and Brass Foundry, 15 North 7th street, Philadelphia. 348\*

CLITON FOUNDRY AND MACHINE WORKS S. W. corner of Green and Morgan streets, Jersey Oity, N. J. The subscribers are prepared to contract for Sugar Mills and Mining Machinery of every descrip-tion. Horizontal Steam Engines of various sizes con-stantly on hand. All orders exouted with promptness-34 13\* FIELDS, BROTHER & CO.

**D**R. LITTLE'S AUTOMATIC LIGHTNING PRESS will be publicly shown in New York shortly. The cylinders of this press can be made to feed itself at the rate of 100.000 sheets each per hour. 34 2\*

KETCHUM'S MOWING MACHINE-Also va-rious Reaping & Mowing Machines, combining all the latest improvements. New York Agricultural Ware-house and Seed Store, 189 and 191 Water street, 342\* R. L. ALLEN.

**EXAMPLE 1** For the undersigned is prepared to furnish plans for ever description of machinery, water wheels, turbines, and to consult with parties to make experiments and scientific investigations, and to superintend the construction of works. Agent for Mellier's Patent for making White Paper from Straw. 33 10\* Consulting Engineer, 74 Broadway, N.Y.

**TO YOUNG MEN.**—Pleasant and Profitable Em my obtain healthful, pleasant, and profitable employ-ment, by engaging in the sale of useful and popular Books, and canvassing for our valuable Journals. For terms and particulars, address, post-paid, FOWLERS MD WELLS, No. 306 Broadway, New York. B. - All Agents who engage with us will be secured from the possibility of loss, while the profits derived will be very liberal. 33 4

UNITED STATES PATENT OFFICE, Washington, April 16, 184. ON THE PTITION of Fonces McCarthy, of Patnam County, Florida, praying for the extension of a patent granted to himon the 37d of Juy, 1840, for an improvemeet in the Cotton Gin, for seven years from the expiration of said patent, which takes place on the 3rd day of July, 1854. It is ordered that the said petition be heard at the Patent Office on Monday, the 26th of June next, at 180 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 find

The stort and all performs are required to light not to be granted.
Persons opposing the extension are required to file in the Patent Office their officetions, specially set forth in the Patent Office their officetions, specially set for 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 16th morning of that day; the argument, if any, within ten days thereafter.
Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvanian, Philadelphia, Pa; Scientific American. New York; Daily Courier, Buffalo, N. Y.; Foridian and Journal, Tallahasse, Fia., once a week for three successive weeks previous to the 26th day of June text, the day of hearing.
P. S. Editors of the above papers will please copy, and send their bills to the Patent. Office, with a paper containing this notice.

UNITED STATES PATENT OFFICE. Washington. April 17. 1854 Onnecticut, praying for the extension of a pat-ent granted to him on the 18th day of July, 1840. for an improvement in "the expanding and contracting, or universal chuck for lathes," for seven years from the expiration of eaid patent, which takes place on the 18th day of July, eighteen hundred and fity-four, (1854)-It is ordered that the said petition be heard at the Pa-tent Office on Monday, the 35th of June next, at 12 oclock. M.: and all persons are notified to appear and show cause, if any they have, why said petition ought not be granted. 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 15th

with the rules of the office, which will be furnished on application. The testimony in the case will be closed on the 15th of June : depositions, and other papers relied upon as testimony, must be filed in the office on or before the morning of that day : the arguments, if any, within ten days thereafter. Urdered, also, that this notice be published in the Onion, Intelligencer, and Evening Star, Washington, D. C.; Evening Argus, Philadelphia, Pa. : Scientific Amer-ican, New York : Daily Courier, Buffalo, N. Y., and Post, Boston, Massachuactts once a week for three suc-cessive weeks previous to the 25th day of June next, the day of hearing. S. T. SHUGERT, Acting Commissioner of Patents.

the day of hearing. S. T. SHUGERT, Acting Commissioner of Patents. P. S.-Editors of the above papers will please copy and send their bills to the Patent Office, with a paper com-taining this notice. 33 3

HARRISON'S PATENT MILLS-Received the Harhing time bottom at the World's Fair: 250 have been sold in two years. The stones are French burr; the frames and hoppers cast iron, the spindlessolid cast steel. They will work better for fouring, and on all kinds of grain and dry substances, and keep in repair tonger than any dry substances, and keep in repair tonger than any dry substances, and keep in repair ing them, and am now prepared to supply orders for all the sizes, from 20 inches to 4 feet diameter, inclu-ding also a superior farm and Plantation Mills at a fair price. Agents wanted to sell them in all parts of the country, Descriptive circulars, with cuts, mailed to all post-paid applications. ED WARD HARRISON, Sole manufacturer and proprietor of the patent, New Haven, Conn.

1854 -MICHIGAN CENTRAL R. R. LINE, D. W. WILITING, Freight Agent for Raliroad and the enermout. now steamors "Plynouth Rock." Western World," and "May Flower,"-and also General Forwarder, will forward freight of any kind, by any mode of conveyance, to any destination, with dispatch and at the lowest rates: has trucks and machinery and thaving been a practical machi-nist has all the skill necessary) for the safe and expedi-tious franding of any machine or heavy article, such as Locomotives, Steam Mogines and Builers, Engine Lattos, Church Bells, Safes, Sc. Mark packages care "D. W. Whiting, Buttalo "goods thus consigned take prec-dence with the above boats in all cases. 32tf

STAVE AND BARREL MACHINERY-HUTCH INSON'S PATENT.-This machinery, which re-ceived the highest award at the Crystal Palace, may be seen there in operation during the ensuing season. Outling, Jointing and Crozing Staves and Turning Heads. Staves prepared by this process are worth to the cooper from 30 to 40 per cent more than when fin-ished in another way. Applicable alike to thick and thm staves. Apply to C. B. HUTCHINSON & CO., Au-burn,N. Y., or at the Crystal Palace.

KRUPP'S BEST CAST STERL-Suitable for Mint and Plater's Rollers, also of large size (72:X8 inches diem) forrolling from coperor brass. Pistone of Steam Engines, and Shafts for Steamboars, nut ex-coeding six tuns woight in one piece. Also the celebra-ted Cast Steel Arles and Tire, made from a solid bar without welding. Agents, THOS, PROSER & SON, 38tf 22 Platt st, New York.

KETCHUM'S IMPROVED MOWING MA-cline with entire change of Gear. The only suc-cessful grass cutter now known; warranted capable of cutting and spreading from ten to filtern arres of any kind of grass, per day, in as good a manner as is done with a scythe. Orders filed at our establishment in Buffalo, N.Y., or at J. MAYHER & CO.'s, and R.L. AL-LEN'S, Water street, N. Y. 31 8

**NODELS**-Of all kinds made and warranted to an paid communications stricty confidential. Address J G. ARNOLD, Worcester, Mass. 3110\*

DORTABLE FORGES AND BELLOWS-(Queen's

NEW HAVEN MANUFACTURING COMPANY -New Haven, Conn., (uccessors to Scranton & arshley) have on hand Power Planers, to plane from 3 to 12 feet : alide lathes from 6 to 18 feet long; 3 sizes of hand lathes, with and without shears; and counter shafts: universal ohucks; drill presses, index plates, bolt outters, and slide rests. The N. H. M. Company also have the right for Harrison's patent Flour and Grist Mill for the term of five years, and are prepared to furnish these superior mills at shorthorice. They are unequalled by any other mill, and will grind from 20 to 90 bushels per hour, and will run without heating, be-ing softwords, They weigh about 1400 lbs., are of the best French burr stone. 50 Inches in diameter; are smugly packed in a coast-ion frame, price of mill \$200, packing \$5. for cuts, prices, and hurther particulary apply poir-padd, as above, or to S. C. Hills, agent N. H. M. Co., 12 Plattst., N.Y. 35tf

**DORTABLE STEAM ENGINES**.-GEORGE VAIL & CO., Speedwell Iron Works, Morristown, N. J., LOGAN VAIL & CO., No. 9 Gold st, N. Y., are prepared to furnish Portable Steam Engines from four to eight horse power, with locomotive boilers. These engines are recommended for their simplicity, durability, and economy, being made from the best materials and de-signed for practical use. They are placed on wheels con-venient to be moved from place to place, and are ship-ped in working order; for plantation use, machinists, or others wanting small power, these engines will be found superior to any others in use. A Silver Medal was awarded at the late Fair of the American Institute, and a premium in cash of \$100 at the Maryland State Fair, held at Baltimore in October last. Persons writing us by mail will be particular to give their address in full. 21 33\*

**JOHN PARSHLEY**, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machinist Tools, and Steam Engines, has now finishing of 36 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lathes have back and screw gear, jib rest, with screw feed, and the rest is so arranged that the tool can be adjusted to any point the work may require, without unfastening the tool, hence they possess all the good qualities of the jib and the weight lathet: they are of the best workman-ship. Price of Lathe with count shaft and pulleys, \$155 cash. Outs, with full description of the lathe, can be had by addressing as above, post-paid. Also four 20 horse power vertical Steam Englines with two cylinders. For particulars address as above.

**Stopp REWARD**—To the Manufacturers of Bank Note Paper. The Executive Com-mittee of the Association of Banks for the Suppression of Counterfeiting, hereby offer a reward of One Hun-dred Dollars for the best specimen, in the opinion of the Committee, of Bank Note Paper, of not less than five hundred sheets, which may be submitted to themon or before the 1st day of January next. All paper submit-ted, except that selected by the Committee, to be re-turned to the persons submitting the same. J. M. GORDON, Secretary Boston, Mass., March 31, 1854. S1 15\*

SCREW CUTTING MACHINES. with P. W. Gates' Patent Dies—The subscribers keep constant-ly on hand three sizes of the above-named machines, to wit—No. Imachine, 10 sets dies and taps from one half to two inches, \$50 : No. 2, 8 sets dies and taps, one half to one and a half inches, \$250 No. 3, 6 sets dies and taps, three eightas to one inch, \$150. Cash on delivery at shop. P. W. GATES & CO. Chicago, Ill. 27 13 shop. Chicago, Ill.

HUBSON MACHINE WORKS and Iron Foundry — at Rudson City, N. Y., are prepared to contract for castings for railroads, bridges, buildings, gas pipes and posts, water pipe, cast.iron ornamental floors, can-non, &c. Steam engines and boilers, high and low pres-sure, sugar mills, Cornish lifting and forcing pumps for mines: stamps, mortars, and mining machinery; also superior hydraulic pumps and presses, and su-perior machinists' tools made to order. Kspecial at-tention given to the making of patent machines. Or-ders by mail will receive prompt attention. New York Office No. 15 Exchange Place. FREDERIC COOK & CO. F. COOK, H. McCLELLAND.

MACHINERY FOR SALE—The following ma-chines are for sale at the "Beinetific American" Office:-Alcott's Concentric Lathece price 425. -Portable Mortising Machine, 420 Bushnell's fron Dril. All orders should be addressed (accompanied with the cash) to MUNN & CO., 128 Fulton st., N. Y.

WHITE STRAW PAPER-For Newspapers.-A Mellier, the patentee, having established his processat Nixon & Xeinour's Mills, Manayunk, where the paper for the Philadelphin Ledger has been made daily from straw since the 12th of April, is now ready to sell licenses and make arrangements for establishing the process elsewhere. Apply to A. MELLIER & V. BEAUMONT, 74 Broadway, where specimens of half stuff, stuff and paper may be seen. 33 10\* . . . . . . . . . .

**ENGINEERING.**—The undersigned is prepared to furnish specifications, estimates, plans in general or detail ofsteamships, steamboats, propellers, high and low pressure engines, boilers and unachinery of every de-scription. Broker in steam vessels, machinery, boilers, c. General Agent for Ashcroti's Steam and Vacuum fauxes, Allen & Noycs' Metailic, Selfad usting Conical Packing, Faber's Wator Gauge, Servell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for holisting and steering purposes, etc., etc. CHARLES W. COPELAND, 30 tf Consulting Engineer, 64 Broadway.

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 pro-duce cannot be equalled by the hand plane. They work from 100 to 200 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 foruce flooring in ten months. Working models can be seen at the Crystal Palace, where further Informa-tion can be obtained, or of the patentee at Albany, N. Y 27tf GEO. W. BEARDELEE.

STATIONARY STRAM ENGINES - The subscri-ber is now prepared to furnish, with or willout pumps, boilers, de. Horizontal Engines on iron hed frames, good strong, substantial, plain finished engines that mild a more avering any from A horse, 2016, to 80

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