Scientific American.

TO CORRESPONDENTS

G. G. of Mass.-A balance-wheel will be of no service to you whatever

F. R. B., of N. Y .- We are well aware of the facts re lative to obtaining the full power of the water. We do not know that we rightly understand your last question ; howcan each end of the partition of your tube, as you state, form an axis? If you use a spiral tube with two arms. it is the same as Whitelaw and Stirratt's wheels.

C. H. J., of S. C.-Large stoves, with drums to expose a great amount of radiating surface, are the best heat-ers when wood is used for fuel. Neither steam nor hot water will answer your purpose. Perhaps you would like to try a general "heater," in your basement for the purpose of heating with hot-air, this may answer very well in your climate. We have handed your letter to another party as requested.

R. McC., of N. Y.-Your steam engine should be about 10 horse-power, with 50 lbs. pressure on the square inch of piston. There is no positive rule for the horse-power of an engine now, that is, as it respects its dimensions.

T. F., of Mass.-The best mode of preserving hams is to rub them well with the best quality of salt every dayfor a week, and also rub in some ground pepper and cloves

before you hang them up. J. S., Jr., of Phila.—We cannot furnish the information sought about the furnace of Chance, but we can about well's. The coal was used in the latter furnace in conjunction with a blast, the furnace being lined with fire-brick. Howell was a native of Philadelphia. M. F., of Ind.-By the employment of your two wheels

an over and undershot you lose one half of the effect from the hight when the water is discharged from the over shot. One large overshot wheel is far better than your two; it requires just as much power to pump up the wa-ter as the effect obtained from it. Your plan is not a good one, we can assure you.

L. L. W.. of Mass.-A patent can be obtained for a use ful composition alone. R. B. B. of Mo.-The extract to which you refer wa

taken from a foreignpaper, and we have heard nothing more about it since.

C. B. K., of Ill.-As the pressure of steam incre doesits temperature. For tables of this increase and rate of expansion, consultany good work on steam and steam engines. The temperature will be increased by heating the steam apart from the water.

S. G. C., of Pa.-We do not discover the slightest nov elty in your device for feeding water to boilers without the aid of the force pump. We have seen essentially the same thing before.

Wm. Wood of Columbia, Tenn., wants a first-rate ma chine forturning spokes. Some manufacturer willplease communicate with Mr. Wood.

Oran Cole, of Detroit, Mich., wishes to purchase chine capable of turning axe and hammer handles. Mr Cole will be "thehumble servant of any one who will furnish him with the information."

H. S., of Va.-You can dissolve shellac in a strong so lution of soda or pearlash, but we prefer alcohol. The varnish thus made is useful formany purposes.

E. H. Jr., of Ala.-We are not acquainted with Mr. A. You can obtain the oxyd of gold by following the direction on another page.

M. R., of Me .- We are fearful that your brake would not possess sufficient power to stop the speed of the train as soon as required. As auxiliary to a steam brake upon the locomotive (a cumbrous expedient) it might, ever, be useful. We should think it possessed sufficient novelty to warrant an application if its utility were de termined.

W. A. P., of Miss.-There never has been any difficulty in making the paddles dip and lift vertically: your plan, however, is new to us. We have never known of the steam being used directly, as is set forth in your description. We do not like your plan, as the radial paddle-wheel is far better than any other kind.

Money received on account of Patent Office business

for the week ending Saturday, Feb. 4 :--P. S., of Ct., \$55; D. B. H., of S. C., \$20; A. J., of Ind., 30: J.A. S., of N. Y., \$100; G. H., of R. I., \$30; W. H.H., of O., \$25; P. W., of Mass., \$30; J. S. S., of Md., \$30; W. H. A., of N, Y., \$55; J. C., of N. J., \$30; C. W., of Conn. \$25; T. R., of N. J., \$12; S. B. C., of Pa., \$55; S. M., of N. Y., \$15; J. C., of N. Y., \$30; J. W., of Mass., \$30; R. P. B., of N. Y., \$30; J. M. N., of Vt., \$30; G. S., of N. Y., \$30 : A. E., of N. Y., \$35; H. T., of N. Y., \$12, W. H. S. of N. Y., \$20.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Feb. 4 :--

W.H. S., of N. Y.; T. B. S., of N. J.; T. R., of N. J.; C. W., of Ct.; J. H., of N. Y.; W. H. H., of Ohio; H. T., of N. Y.; A. E., of N. Y.; G. S., of N. Y.; L. C. C., of Ct.

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 ten days or two weeks, Those who have remitted money for copies will be supplied immediately on theissuing of a new edition.

PATENT OLAIMS-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.

-Remember we are always willing to ex PATENTEE8

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 fol-lowing 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, nonecomple, but about 30 numbers in sheets,, which will be sold at 50 cents per set; of Vol. 9, none previous to Jan. 1st, 1854.

GIVE INTELLIGIBLE DIRECTIONS-We often receive letters 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-office at which they wish to receive their paper, and the State in which the post-office is located.

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MUNN & CO., Scientific American Uffice, 128 Fulton street, New York. **3500** REWARD-For an Invention to Pre-ten of the stress of the stress of the stress of the stress annownce occasioned by the ALTERATION of Bank Notes. To Chemistic and others. In order to prevent the loss and annownce occasioned by the ALTERATION of Bank Notes. To the stress of the stress of the Bank, or the denom-ination of the Bill, as practiced by counterfeiters, and toproce ean effectual barrier to such practices, by en-couraging the invention of materials, such as ink and paper, of a nature to afford in either or in any combina-ion of them, the desired protection-the Executive Committee, of the Association of Banks for the Suppres-sion of Counterfeiting, will pay the sum of Five Hun-dred Dollars to any person who shall invent the best ing the object named. All plans to make store the materials and processes as the party appling may be willing to disclose. Each applicant to folge with the Treasurer of the Association, Henry M. Holbronk, Eag., for the term of three ments, the sum of one hundred dollars, which shall be paid to any person who shall, du-ring that time, alter, by removing and printing anew, any material porition of a bill or note prepared in accor-dance with the plan submitted, in such a manner that the alterial normal of a bill or note person who shall, du-ring that time, alter, and the tests which the present knowledge of chemistry affords, then the hundred dol-lars will be returned, and the tward paid over to the successful applicant, and the hundred dollars deposited by each of the other applicants to be returned to them respectively. Per order of the Executive Committee, J. M. GORDON, Sceretary. Columbian Bank, Boston, Mass, Jan 24, 1854. 227

Columbian Bank, Boston, Mass., Jan 24, 1854. 227 THIS IS TO CERTIFY that I have hadin use one of Parson's Self-straining and Self-ranging Saw Frames, during the last year, and find the same to be an improvement upon the old fashioned Saw Gate; my mill had two English Gates. Wheels entirely similar and geared precisely in the samemanner, the only dif-ference being that the water gate to one of the mills vented about 500 inches, and the other about 400 inches, the consequence was that the mill venting most water did a proportionably largeramount of work. The gate venting the least was changed for one of E. H. & S. E. Parson's saw frames; the result was highly satisfactory —the mill containing said frame cutting aboutone-third more lumber than the English **Gate**, with the larger amount of water. EDWARD J. FARNHAM. Wellsville, Alleghany Co., N. Y. The above certificate refers to the saw mill referred to on page 54, present volume Scientific American. For machines or rights, address S. K. PARSONS, Wilkes-barre, Pa. 22tf

New Haven, Conn., (successors to Scranton & Farshley) have on hand Power Planers, to plane from 3 to 12 feet; slide lathes from 6 to 18 feet long; 3 sizes of hand lathes, with and without shears; and counter shafts: universal chucks; drill presses; index plathes, bolt cutters, 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 short notice. They are unequalled by any other mill, and will grind from 30 to 30 bushels per hour, and will run without heating, be-ing self-cooling. They weigh about 1400 lbs, are of the best French burr stone, 30 inches in diameter: are smugly packed in a cast-iron frame, price of mill \$200, packing \$5. For cuts, prices, and further articulars apply post-paid, as above, or to S. C. HILLS, agent N. H. M. Co. 12 Platt st., N. Y.

USITED STATES PATENT OFFICE. Washington, Jan. 26, 1864. ORISTHE PETITION of Allien & Wm. A Crowell, of patent grated to them on the 20th day of June, 1840, for an improvement in Churns, for seven years from the expiration of said patent, which takes place on the 20th day of June, eighteen hundred and filty-four-It is ordered that the said petition be heard at the Pa-tent Office on Monday, the 39th day of May 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 be granted. Persons opposing the extension examined.

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 subject of the series of t

P. 8.—Editors of the above papers will please copy and send their bills to the Patent Office, with a paper con-taining this notice. 22 3

WANTED-A situation by a man that has super-intended a machine shop, pattern shop, smith work, boller making, building steam engines, paper ma-chines mill gearing, and machinists' tools : is a mechan-ical draughtsman, and a steady man. Address, post-paid, "W.," York, Pa.

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AWRENCE SCIENTIFIC SCHOOL-Harvard University. The next Term of this Institution will open on the second day of March 1854, and continue 20 weeks. Instruction by Recitations, Lectures, and Prac-tical Exercises, according to the nature of the study, will be given in Astronomy by Messrs. Bond, Botanyby Prof. aray, Chemistry, analytical and practical by Prof. Horsford. Comparative Anatomy and Physiology, by Prof. Wyman, Engineering by Prof. Evoke, Physics by Prof. Lovering, Zoology and Geology by Prof. Agassis, For further information concerning the School applica-tion may be made to Prof. E. N. HORSFORD, Dean of the Faculty, Cambridge, Mass. 214*

A MERICAN RAILROAD JOURNAL-This Jour MERICAN RAILEOAD JOURNAL-This Jour-rad nal, theoldest in the world devoted to the Rail-road interest, will hereafter centain, in addition to its usual contents, a full and comprehensive department of Railways and Mechanical Engineering, prepared under the direction of a practical engineer and mechanic.-Improvements in Railways, Railway Equipments, and especially in Locomotives, will be duly described and il ustrated. Inventors and improvers will find the Journal the best advertising medium, as it 's taken by nearly all Railroad Companies and Engineers in the country. Pub-lished every Saturday at No.9 Spruce st, by JOHN H. SCHULTZ & CO., at \$5 a year in advance. 212*

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WANTED-A good permanent situation, either to vrun a stationary engine or take charge of machi-nery, where capability and a faithui discharge of duty would meet with a liberal recompense, by a person who is and has been for several years past, running a loco-motive on one of the railroads out of New York. Good references given. Address J. C. GORDON, 438 Fourth Ayenue. (On parle francais.) 914*

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WEIGHING AND PACKING MACHINE—This machine is particularly adapted for the weighing and packing of ground spices, coffee, teas, saleratus, cream tartar, British luster, arrowroot, drugs, prepared four, farina, starch, cocca, oat meal, yeast powders, seeds, snuff, ground herbs, or any like material, which may require to be put in packages, from ounces to pounds. Its advantages over the old method of pack-ing by hand, are manifest. One of these machines will, with the aid of one person, weigh accurately, and pack neatly, from 400 5,000 packages per day. It requires very little power to run it, and is not liable toget out of repair. Having putchased the exclusive right to manu-facture and sell throughout the United States, we are prepared to execute orders for the machines or sale of sectional rights, on reasonable terms. N.B. HARRIS & Co., Proprietors of the Excelsior Steam Spice Mills, Philadelphia, Pa.

DORTABLE STEAM ENGINES—GEORGE VAIL A CO., Spechdwn: Iron Works, Morristown. N. J. LOGAN VAU. & 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 placedou 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. 211

1854 --MICHIGAN CENTHAL R.R. LINE and the enormous new steamers "Plymouth ² and "Wes-tern World," and also General Forwarder, will forward freight of any kind, by any mode of conveyance, to any destination, with dispatch and at the low, st rates ; has trucks and machinery (having been a practical machi-nist has all the skill necessary) for the safe and expedi-tious handling of any machine er heavy article, such as chocomotives, Bieam Engines and Boliers, Engine Lattes, Church Bells, Safes, &c. Mark packages care "D. W. Whiting, Buffalo: goods thus consigned take prece-dence with the above boats in all cases. 19tf

TRON DRILLS.—Portable drills for drilling iron.— They are the most simple and convenient drill in use, having anewly invented feed motion, simple and effi-cient in its operation. They are constructed of iron, and weigh 801bs. We can recommend them as a first rate article. Price \$25. Address MUNN & CO., at this office.

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machinists' Tools, and Steam Engines, has now finishing of 25 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lathes have back and screw ger, jib rest, with screw feed, and the rest is soarranged 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 lathe: they are of the best workman-ship. Price of Lathe with count shart and pulleys, 4155 ceash. Cuts, with full description of the lathe, can be had by addressing as above, postpaid. Also four 30 horse power vertical Steam Engines with two cylinders. Price of engine with pump and heater, 4800 cash. For particulars address as above.

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C. B. HUTCHINSON'S PATENT STAVE Cut-cuting Machines—The best in use, and applicaise alike to thick and thin staves, for barrels, hogsheads, &c.; also his H ead Cutting and Turning, and Stave Joint-ing and Croxing Machines. This machinery reduces the expense of manufacturing at least fifty per cent. For machines or territorial rights, apply to C. B. HUTCH-INSON & CO., Syracuse, N. Y.

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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 planea over twenty millions of feet furing the last two years, another more than twelve millions of of feet Spruce 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 1 tf GEO. W. BEAR DSLEE.

A BC Cases. F 16tf B. ELY, Counsellor at Law, 52 Washington street,
Boston, will give particular attention to Patent
s. Refers to Messrs Munn & Co., Scientific American.

