# Scientific American.

#### TO CORRESPONDENTS.

đ

W. P., of Ill .- You are well aware, we suppose, that the air engine, acting nearly on the principle you describe, is older than the steam engine; yeu have only looked to the pressure of the air to assist in one direction, while it resists to the same amount in the other direction, and nothing is gained, and nothing lost, to be sure. The air-tight cylinder was one of the grandest improvements ever made on the steam engine.

T. J. J., of N. Y.-A wedge rail and grooved wheel has been long known; they were used before the T rail. They do not answer at all. This same plan was proposed by Mr. French, of Va., for steep inclines. In your plan for engraving, the whole work would have to be done on the wax, as carefully as on the clean wood. This would take as long, as the wood is very easy to work. The plan is the same as that for etching copper-plates.

J. L. P., of Phila .- The galvanizing of the iron is to cover it with zinc. Clean the iron well, then have the zinc melted in an iron vessel, and put in some salamoniac and tallow, then dip in your plates. We do not know the establishment where the galvanizing is carried on.

J. L. B., of --.-We do not know what would be the price of the agricultural analyzing apparatus to which you refer, nor where it could be found. The best works on the subject of Agricultural Chemistry, are those of Johnston, Norton, and Liebig. Get those and you can do all the rest. We will try and fulfil your request at some future time. W. P., of Mich --It is indeed true that you can de-

stroy the equilibrium of pressure in a water box, by the inequality of the surface so as to produce motion on the side of the greatest pressure, but what amount of motion do you get? Any more than you give No. There is no new power called into existence and none but what is well known. We could not advise you to go to any more expense, for no ultimate benefit will result from the same.

C. J. M., of Ohio .- Yours next week.

V. K. of-—.—The depilatory powder to which you refer is not sold in this city. We could not speak per sonally of its merits. It does not at least remove the hair permanently.

J. E., of Ohio.-Its density is uniform throughout but for railroad purposes it has been tried-and faithfully tried -and found unfit for the purpose.

A.B.G., of Ct.-Euclid is the best work you can get W. S., of Pa.-Gun-flints are all made by hand : we could give you the description, but it is too long to give here. The process is described in Barlow's En cyclopedia

H. &. W., of Andersonville.-We omitted to state in our letter, a few days since, that the \$1 bill enclosed in yours of the 10th, was good ; it was passed to vour credit.

S. S., of Phila.-Geo. Bruce resides in this city and carries on an extensive type foundry.

D. B., of Mass.-We do not understand the advantages likely to arise from your plan for propelling canal boats over some others; neither do we see any patentable novelty in it to justify an application.

J. P G., of Me.-The elements in your machine for governing the water in steam boilersseem to be good but this can never be satisfactorily determined with out the aid of experiments, which must be made to satisfy yourself and others interested. There ap pears to be novelty in the arrangement which could be made the subject of a patent.

C. R., of Ill.-There is nothing so durable for the purpose as Roman cement. \$1 received. M. M., of Wis.-The proper way for you to obtain the desired information is to address a letter to the

Commissioner of Patents, Washington, D. C., he will give you the information : no one else can. X. Y. Z., of Mass.-We cannot give the information

you ask for. J. M J., of Me.-Such a machine as you refer to

was patented some time since, by Joseph Graume, of Cincinnati, Ohio. The price, & c., we cannot give, but presume it can be obtained by addressing him as above.

T. B., of New Haven.-The price of Brewster's Op tics, we think, is one dollar. It is the best work upon the subject up to this time.

R. B., F., of N. Y.-Pocket microscopes can be ha for prices varying from \$1 to \$25; a good one can be obtained for \$12. John Roach, 79 Nassau st., has them for sale. \$1 received.

0. A. J., of Vt .- We have forwarded two copies of the Scalpel, as you directed.

H. E., of Cincinnati.-You could not obtain a patent for the sliding letters ; they have been used before, and were made the subject of a patent some years since.

-The circumstance you m A. E. C., of M

A. H., of Mo.-The arrangement of the brushes we do not think could be secured by a patent. Some machines have been brought forward for cleaning streets where the dirt was all taken up and placed in a receptacle-none seem to have been effectual up to this time. We entertain the opinion that yours would not obviate a single difficulty not attained by Bishop's machine; neither can we see how a valid claim to a natent could be based.

C. A. C., of Md.-It would cost you about \$300, by packet, to visit the World's Fair and remain three or four weeks, we should think ; about two months would be consumed in going and coming. J. L. M., of Ala.—The improved Corn Sheller be-

longs to Carter & Harris, of Yorkshire, N. Y., and is good, the price we cannot give. The "Refrigerator" is a good article, but as yet we have not heard of its being brought into the market. Messrs. Geo. Vail & Co. manufacture the horse power of Mr. Bogardus. Some improvements have been made whereby the friction is lessened, and is now, perhaps, as good for 4 horses as any in use : it is much used for cotton gins. James Stewart, of this city, makes good turning lathes at prices varying from \$25 to \$100. N. Hunt & Co., 110 Water street, Boston, are sole agents for Swingle's Patent Mortising and Boring Machine, price \$125. Small sized mortising machines for light work can be had for \$20.

W. L. L., of Pa.-The work to which you refer has been discontinued. Engineers and railroad companies would not support it.

M. S., of Ct.-Next week we will present to our eaders an engraving of the Wind Mill.

W. F., of Boston. There are a number of engravings required to illustrate the welding process : they are now in the hands of the engraver.

J. C. H., of Miss.-We do not know where or at what price, such springs could be had as you require; H. H. Day, of this city, could make an india rubber one we should think. If such an one would answer your purpose you could address him upon the subject.

Money received on account of Patent Office busi ess since March 26 :--

E. B, of N. Y., \$700; M. C. B., of N. H, \$15; W & B. D., of Ct., \$30; G. B. C., of N. Y., \$55; C. F. B., of R. I., \$40; G. H. R., of Ill., \$30; W. H. H., of N. Y., \$20; J. C. B., of Atk., \$30; A. G. D., of Ct., \$45; W. G., of N. Y., \$10; G. B. W., of N. Y., \$10; T. & G., of N. Y., \$30; H. & E., of N. Y., \$30; A S. B., of N. Y., \$55.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since March 26 :

W. & B. D., of Conn.; G. W., of Mass.; B. & M., of N. Y.; W. G., of N. Y.; I. B L., of Vt.; S. G. S., of Ga., and A. G. D., of Ct.

Patent Claims.

Persons desiring the claims 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 one dollar as fee for copying.

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## American and Foreign Patent

American and Foreign Patent Agency. In PORTANT TO INVENTORS.—The under-signed having for several years been extensively engaged in procuring Letters Fatent for new mechani-cal and chemical inventions, offer their services to in-ventors upon most reasonable terms. All business entrusted to their charge is strictly confidential. Pri-vate consultations, and the with inventors at their office from 9.A. M., until 4.P. M. Inventors, however, need notincur the expense of attending in person, as the preliminarisescanall be arranged by letter. Mo-dels can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Branches of our Agency have been established in London, under the charge of Messrs. Barlow, Payne & Parken, celebrated Attornies, and Editors of the "Patent Journal," also in Paris, France, under the charge of M. Gardissal, Editor of the "Brevet d'In-vention." We flatter ourselves that the facilities where the right is recognized, are not equalled by any other American house. MUN & CO., 128 Fulton street, New York.

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ATHES FOR BROOM HANDLES, Etc. We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pil-lars, Rods and Rounds ; Hoe Handles, Fork Handles, and Broom Handles. This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch, and work as smoothly as on a straight line, and does ex-cellent work. Sold without frames for the low price of \$25-boxed and shipped, with directions for set-ting up. Address, (post paid) MUNN & CO., At this Office.

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SASH AND BLIND MACHINE-Patented by SASH AND BLIND MACHINE—Patented by Jesse Leavens, Springfield, Mass. The machine planes, molds, mortises, bores, tennons, copes, franks, cuts off, rips up, the stuff, planes the blinds, shades, and sets out the sash. The machine is 4 by 5 fect, weighs 800 lbs., requires two horse-power to drive it, and cost \$300 cash—extra oharge for the right to use. Shop, town, county, and Staterights for sale. Or-ders from abroad will be promptly attended to by ad-dressing JESSE LEAVENS, Palmer Depot, Mass. 278\*

**FELLY CUTTING MACHINE**—Messrs. JO-SEPH ADAMS & SONS, Amherst, Mass., offer for sale town, county, and State rights, or single ma-chines, with the right to use, of their unrivalled Felly Cutting Machine, illustrated in No. 5, Vol. 6, Scienti-fic American. It is portable, easily kept in order, re-quires but little power to drive it, and will execute in the most rapid and perfect manner, cutting 60 good felly in one hour. 278\*

STEAM ENGINE FOR SALE—We have for sale a 12 horse-power Horizontal Engine, com-plete, with flue beiler, second-hand, newly re-fitted, in excellent condition, has not been used to injure it; solid cast iron frame, manufactured by the "Novelty Works," this city. Its original cost was \$1,450, and will now be sold for \$900 cash, the owner having no further use for it. Apply to MUNN & CO. 27tf

further use for it. Apply to MUNN & CO. 27tf **1851** TO 1856-WOODWORTH'S PA-Ninety-six hunhredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines, which may be seen in constant operation in the steam planing mills at Boston, Philadelphia, New York, Albany, Troy, Utica, Rome, Syracuse, Geneva, Albion, Lockport, Buffalo, Jamestown, Gibson, Binghampton, Owego, Ac. The price of a complete machine is from \$100 to \$1,000, according to size, capacity, and quality. Persons holding licenses from the subscriber are pro-tected by him against infringements on their rights. For rights to use these machines in the Counties of Calumbia, Dutchess, Queens, Richmond, Suflok, Westchester, and other unoccupied cousties and towns of New York and Northern Pennsylvania, ap-ply to JOHN GIBSON, Planing Mills, Albany, N. Y. 27 eow6\*

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TO PAINTERS AND OTHERS.—Ame-rican Anatomic Drier, Electro Chemical grain-ing colors, Electro Negative gold size, and Chemical Oil Stove Polish. The Drier, improves in quality, by age—is adapted to all kinds of paints, and also to Printers' inks and colors. The above articles are compounded upon known chemical laws, and are sub-mitted to the public without further comment. Manu-factured and sold wholesale and retail at 114 John st., New York, and Flushing, L. I., N., by QUARTERMAN & SON, 2211 Painters and Chemists

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Office, six inventors from different parts of the country meet all pressing their claims before the Office for the same contrivance; cases of this kind have come under our own personal observations.       Importer of Watchmakers' and Jewellers' Files and manufacturer of Mathematical Instrutry of the same contrivance; cases of this kind have come under our own personal observations.       Importer of Watchmakers' and Jewellers' Files and manufacturer of Mathematical Instrutry of the same contrivance; cases of this kind have come under our own personal observations.       Importer of Watchmakers' and Jewellers' Files and manufacturer of Mathematical Instrutry of the same contrivance; cases of this kind have come under our own personal observations.       Importer of Watchmakers' and Jewellers' Files and manufacturer of Mathematical Instrutry of the same contrivance; cases of this kind have come under our own personal observations.       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Astronomical filling machines, seuter structer of the first clock makers i	page 418, Pater tions the fact t cies of atmospi have been know Office, six inve- try were all pr the same contr under our own E. C., of La are to accompl trary to the law will be disappor F. V., of Mit gle wheel to th contrivances for and in a manner	pressing their claims before the Office for trivance; cases of this kind have come rn personal observations. .a.—We can scarcely imagine how you plish the object you propose; it is con- aws of chemical affinity. We think you pointed in the end. lich.—Your method of attaching the sin. the Cultivator could not be patented; for this purpose have been used before, ner substantially similar to yours. We	Tools, and manufacturer of Mathematical Instru- ments, 154 Fulton st. 29 3m* <b>A</b> VALUABLE INVENTION FOR SALE. A It being out of the subscriber's line of business, a valuable invention will be sold cheap. For parti- culars address "A. N.," Sharp Town, Somerset Co., Md., post-paid. 29 2* <b>BONE MANURE</b> —A very superior quality of Bone Dust, finely ground, for Farmers and Gar- deners, warranted pure and dry to keep in any cli- mate. Apply at the Eagle Mills, Rossville, Staten Island, or at the office, 62 Beaver st., N. Y. 1* <b>WILLIAM W. HUBBELL</b> Attorney and Counsellor at Law, and Solicitor in Equity,	<ul> <li>Distance, National biasons, ecc. — Into information of clocks, especially in the apparatus for counteracting the influence of the changes of temperature upon the pendulum, and in the retaining power, together with a most precise method of adjusting the pendulum to correct time, are prepared to furnish Clocks superior to any made in the United States, both for accuracy of time-keeping and durability. They speak with confidence, from having tested their performance for several years. 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