# Scientific American.

#### TO CORRESPONDENTS.

J. B. C., of Tenn.—We are awaiting the report of Mr Co, eland on the Cloud Engine. It is true, as you observe, that the great amount of power required to inject the nesary quantity of air for hot-air engines, is the cause, a.d always will be the cause of their failure.

E. B. F., of Ill.—A centrifugal gun for shooting balls by machanical force, is not new; such a gun was experi mented with in this city about ten years ago. The ex pense of working such a gun would be greater than to discharge the balls with gunpowder.

G. C. S., of N. Y .- We know nothing of a work called

Grier's Mechanic's Calculator.

W. O. G., of Ct.—If you put one coil of pipe around the bottom of your tub, and have it perforated with holes, you can boily our water quicker than by the large coil without perforitions. The use of one coil is preferable for the re 1800 that it distributes the heat much better, and pre vents the hock attending the leating in of steam in a

large volume.

W. V., of N. J.—We can furnish you no information about turning calender rolls used in the munifacture of paper. We do not remember to have published any thing on this suiject. Cannot account for the tardy deliv e yof your paper. It it regularly mailed from our office andought to get 12 miles in less time than a week, but the Post Office Department is sometimes sadly out of joint in its postal operations.

S. H., of Iowa -The ketches of your method of tightening up bed cords have been examined. We do not remember to have seen the same thing before, although you must bear in mind that applications for such devices a ways attended with much doubt, owing to the fact that so much has been done in this line.

apolication our fee for preparing it would be \$25. The

Ja ant fee is \$20. See circular about model, etc.

W. J. L., of Mass.—The exp^rimentof producing sparks of electricity, accompanied by a crackling noise, by rubbin; d. wn a cat's back, is known, we presume, to every one at all familiar with this feline quadruped. It was one of the curiosities of our juvenile days.

J.P A, of Ga.—Blackje & Son, 117 Fulton st., N.Y., sell "Reids Horology," which descrites the machinery of. watch and clock making. The art of polishing steel, silver, and gold cannot be learned but by actual observation. Emery wheels and buff leather wheels are used in polishing, as well as buff and emery straps. The burnishing or finishing operation is performed by a fine agate bur

through a puppert valve appears to be new and patentable Should you decide to make an application send us a mod-

J. A. of Pa.-Models sent to the Patent Office cannot e permanently withdrawn. The notice to which you allude has reference to models sent to our office, and upon which no applications are made for patents. Yours does not come within this category.

J. C. R., of Mich.—We have paid no attention to the pretensions set up by the reputed discoverer of a new language. The subject is scarcely worth a serious consid eration, as it is wholly impracticable.

J. J., of Mich.—We can understand how a log may be

made to float, as you have described it, by chainingit to a lighter timber, but that is not an exact disposal of the

Phillip Gross, Boonville, Mo., is a cooper and has heard a good deal about a shaving machine driven by one horse ower, which costs from \$75 to \$300. Mr. Gross wishes to hear directly from the manufacturer of suca a machine.

J. C. R., of Pa.—Minie, the inventor and patentee of the celebrated fire-arm which lears his name, is a liquite; and in the French army, and is stationed in command of the fortress of Vincennes, near Paris. He is continually try-ing experiments for the benefit of his country. His rifte cannot be obtained in this country that we are aware of. G. II. D. of N. Y .- During the holidays, from Thanks-

gi ing till after New Years, patent business is always slick with us, and but little is generally done at the Patent Office in acting upon cases. It is an excellent time however, for you to presen your several invention, for the papers can be prepared by us this month without any delay. If your friend should come down with his model, you can se id your models, with the Government fees-\$3) on each -by him, and the papers we will prepare at once, and pr baily be a' le to send them for execution by Mr. H. when he returns. Assure Mr. II. that we will prepare hi specifications and drawings so that we can execute them at our office while her mains in the city.

L. A. B., of N. Y.—We have examined the sketch and

 $\mathbf{descri}_{i}\ \mathbf{tion}\ \mathbf{of}\ \mathbf{your}\ \mathbf{im}\ \mathbf{proved}\ \mathbf{wheel}\ \mathbf{for}\ \mathbf{ascending}\ \mathbf{i})\ \mathbf{clines},$ and we are of the opinion that it embraces patentable features, as we never saw or heard of anything like it, but as to its practicability we are by no me'ns certain. We should doubt somewhat, and yet it may possibly prove to le free from objection. All we can say in regard to it is that we think it patentable.

J. M. II., of N. II.—A cupping apparatus constructed in the manner proposed by you, could not in our opinion be patented. It is the mere app ination of the air pump prin cipe to cupping, without involving anything novel in its contrivance. The idea, however, is not new, as the same

thing has been done before.

J. O. M., of N. Y.—A cheap and simplewater measurer would be a desirable improvement.

L. Q., of Canada-No provision is made in our laws for a foreign subject securing an invention in this country, by P. & Co. of O -Fairbanks & Co., Broadway, this city,

sell two kinds of coin scales-Fromnei's and Allander's-the first is retailed at \$4,50, the latter at \$1,50, and we persuperiority in one over the other.

W. F., of Tenn.—If you put in a good turbine water wheel, you will be able to get more work out of it than from your flutrer wheel. You have plenty of water to get eight horse power out of a good wheel. Any of those illustrated in our columns will answer your purpose

B. A. A., of Ind.—So far as we can learn, the chief difficulty with the wire fences that have leen put up is their mi erable construction. Being badly erected, a prejudice has grown up against their use. The expansion and con-traction is a small item of disadvantage. Your device for preventing the same is good, and probably patentable.-Youmust determine as to the propriety of applying for a patent Water will rise of itself in a pump stalk out of which the air is exhausted, to a hight of thirty-three feet. In pumping, the power spent is in exh usting the air.— The water follows the piston as fast as it rises. For every foot alove thirty-three the column of water must be raised bodily, like any other weight, and the power must

W. S. S., of Mass.-It would not be pater tal leto fit up the in terior of a car in the manner yom propose. It has been before suggested to us, but a side from this, the mere fitroduction of saloons or state rooms for sleeping on cars

could not le view d in the light of a patentable invention. O. F. S., of N. H.—The paperon glycerine made as described, was read before the British Scientific Association, and was taken from the Report of their proceedings, In all likelihood, the steam required must be surchar, ed-

E. H. H., of Ind, Your governor is what is known as a chronom tric governor, and was invented ma, y years ago by a Frenchman, whose name weforget. We have had the same thing submitted to us more than once with in a year or two.

Money received at the SCIENTIFIC AMERICAN Office on account of Patent Office business for the week ending Saturday, Dec. 1.5, 1355 .-

Saturday, Dec. 15, 1895.—
J. S., of Ind., \$15; W. P., of Ct., \$30; C. G., of Ky., \$25, C. B., of Pa., \$30, J. H., Jr., of Wis., \$25), W. A., of N. Y., \$40; J. H. P., of N. Y., \$25, E. H., of N. Y., \$30, C. G. G., of N. Y., \$10; L. B. P., of O., \$25 E. T., of Ct., \$25, P. McM., of N. Y., \$20, S. I. T., of N. Y. \$25. J. W. H., of R. I., \$55; C. B., of I.d., \$25. Specifications and drawings belonging to parties with

the following initials have been forwarded to the Patent

Office during the week ending Saturday, Dec. 15.— L. B. P., of O.; J. W. H., of R. I., J. S., of Ind., C. G., of Ky.; J. H. P., of N. Y., S. I, T., of N. Y.; W. A., of N. Y., E. T., of Ct.; C. B., of Ind.

#### Important Items.

BACK NUMBERS AND VOLUMES-The following numbers and volumes of the Scientific American, are for sale at this office, at the annexed prices:—Volume VI Vol. VII, Vol. IX, and Vol. X, complete. Price, bound, per Volume, \$2,75. Numbers in sheets, complete, \$2. Of Volumes IX. and X., we have also about 40 numbers each, not consecutive, which will be sent by mail

 $t_{\tt ECE:PPTS}$  = When money is paid at the office for subscription, a receipt for it will always be given, but when subscril ers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgment of the receipt of their funds.

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 uni form style with their previous volumes. Price of bind ing75 cents.

## Literary Notices.

GILLESPIE'S LAND SURVEYING—Prof. Gillespie, C. E., of Union College, is the author of a new work just published on the above su ject, by D. Appleton & Co. of this City. .t is a full and able treatise on land surveying, comprising the theory developed in the chain, the compass, the theodotic, the plan, tadle, set it is illustrated with four hundred engravings and a magnetic chart of the Hilled States. While terching surveying as preliminary to a course of Civil Engineering, he found that none of the book, in use suited his purpose, and he was compelled to teach the subject ty a combination of familiar lectures on its principle, and as exemplifications of its practice. His notes continually swelled in bulk, and gradually tecame systematized, until in 1851a volume em racing a synopsis of them was given to the public, which has been highly prized. The present volume is a full and complete treatise, emi racing all contailed in his previous work, and deep shonor to its nuthor for its completeness, and the perspiculty of its demonstrations. The publishers deserved for the neatness of the typerraphy, and the general contour of the book—it is well printed, and the matter arranged with great care.

The Knyogennocker—Old Knick, for this month, is

THE KNICKERHOCKER—Old Knick, for this month, is sentimental, practical, historical, graphical, satirical and nusical, as usual. It con ains a friendly criticism of Longfellow's recent poem "liawatha," which his caused and is causing so much criticism, pro a decontamong the literati. "The Last Seige of Jesusalem," by Rachael A. Ackerman, is a fine poem. The Editor's Table smokes cheerfully with a fine feast of wit and humor.

cheerfully with a fine feast of wit and humor.

Frank Leslie's Illustrated Newspaper—This is the name of a new weekly illustrated journal on the plan of the London illustrated News. It is a newspaper record of all the principal occurrences of the day, the most prominent incidents teing pictured to the eye by o. gravings. In the number before us there is, for example, an inferesting printed description of Dr. Kane's exploits in the Polar r gions, illustrated by hands one pictures of Arctic scenery. Hare's Spiritual Machinery, as shown by him at the Broadway Talernacle, during his recent lecture, is also engraved. There are a number of other very interesting engravings. The whole specimen, both in artistic, literary, and typographical appearance, is splendld. Singe copies il cents, \$4 a year. Leslie, publisher, 14 Spruce st., N. Y.

Tue Caccu Mayer's Macatum—For Benemler, by

THE COACH MAKER'S MAGAZINE—For Decemler, by C. W. Saladee, of Columbus, Ohio, contains three large obates of illustrations, besides a number of wood cuts.—With this number the first volume is concluded. We are happy to see that Mr. Saladee has be n cheered by its success, and thathe goes forward with animation in preparing for his next volume.

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**BREAST WATER WHEELS**—For sale, three Wrought iron Under-shot Water Wheels,—one 14 feet diameter and 3 feet vide, the other two about 12 feet diameter and 2 1-2 feet wide. Bither can be made into breast or over-shot wh, els at little cx\_ense. Term, moderate. Apply to E. WHITNEY, New Haven, Ct. 15 6\*

PNIIC AGENT for the sale of the English patent right of C. Cornell Brick Making Machine, the most superior machine in use, may be seen, together with the model, at Lovejoy's Hotel, N. Y. Prompt attention given to any communication addressed to the Agent, S. T. MATHE WS, Lovejoy's Hotel.

### IMPORTANT TO INVENT-ORS.

TMPORTANT TO INVENTORS.

The Understand having had ten years and foreign councies, beg to give notice that they continue to olfer their services to all who may desire to secure Patents at home or abroad.
Over three thon coul Letters, Patent have been issued, whose papers were prepared at this Other, and on an average three to one one hard of all the Patent issued each week, aron cases which are prepared at our Agency.

An able corps of fangmers, Franciners, Draughthmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others possess, we are able to give the most correct counsels to inventors in reard to the patentability of inventions placed before us for examination.

Private consultations respecting the patentability of inventions are held free of charge, with 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 these type necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country.

Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards the making an application.

In addition to the advantage, which the long experience and great success of our firm in obtaining patents present to incorr, they are informed that all inventions patented through our establishment, are noticed, at the erroper time, in the Scienci present of the patents obtained by Americans in foreign countries are secured through us which the longer in the U. S., go through our agency.

American and Foreign

A LARM ATTACHMENT LOCK—Patented May, 1855—This Lock is manufactured in Rochester, N. Y., Iy the vatentee himself, and under his own directions, a dissuitable for Trunks, Doors, Iron Safes, or any other place where a lock is needed—is made in the very best style and workmanlike manner—is perfectly safe to the owner, butrather dimerons for the thief. Responsible Agents are wanted for the sale of the same; and also the right in the United States. Anyrody wishing to invest capital in a profitable lusiness, will do well to apply, Iy mail or otherwise, to Mssrs. SCHNEIDER & SCHUBERS, Gio. e Building, Bochester, N. Y.

P. T. F. (HANICS' TOOLS—For cooperr, he and was ship carpenters, millwrights, coachmakers, blacks, smiths, and miners. Also drilling, more ining, and boring machines, turning lathes, ratchet, and hand drills, Spear & Jack orks pit, mill, cross-cut, hand, and lack saws, and afull assortment of founders and machinists' hardware. Files, screws, rivets, 1 uts, washers, &c. &c., for sale by CHAS. S. LITTLE, 33 and 34 Fullonst., N.Y.

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OTICE TO PLOW MANUFACTUREFS.—
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P. N. FITZGERALD, Counsellor at Law-fice—has removed from Washington, D. C. to the city of New York, 271 Lroadway, (corner of Chamlers St.). As heretofore, his practice is confined to Patent Cases, which he will prosecute or defend, as counsel, lefore the Supreme and Circuit Courts of the United States, also lefore the Pater to fifee, or the Judges having juri-diction of appeals therefrom.

TATER POWER FOR SALE—8 hours' ride from the city of New York, near the beautiful and thriving village of Owego, on the New York and Erie Rairroad. The wheel is 14 feet diameter, 5 foot bucket, building 75 by 25, two stories high. For particulars apply to HARVES CHURCH, Troy, N. Y., or H. H. NASH, Owego, N. Y.

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The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nichalas G. Norcross, of date Peb. 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks is not an infringement of the Woodworth Patent.

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