Scientific American.

CORRESPONDENTS

R. H. D., of N. C.-Please to send us a sketch and de scription of your machine for cutting out shoe strings from leather scraps, for examination and we will forward you specific directions in regard to an application

for a patent. Isaac Simmons, of Baltimore, Md., wishes to obtain a cheap machine for cutting ditches narrow and wide shallow and deep. He also wants a machine for bend-ing carriage felloes.

R. W. S., of Ala .- We do not know of any special work to which we can refer you as a guide in the con-struction of iron verandahs.

S.P., of California-We are much pleased to announce the issue of your Patent. and we hope you have received it before this. Ten dollars received to balance your account.

J. H. W., of Va. - The camera obscura is an instrumen employed for copying pictures, landscape scenes on figures. The instrument can be adjusted to reduce the views to any size.

P. E. of Conn .- You should not be too hasty in ex pressing your opinion of what seems to you to be a ne-glect on our part. You say "we have not dealt justly by you," when the simple facts are, that when you wrote to us you omitted to sign your name to your letter, and thus we were ignorant of your proper address. This is not an unusual oversight. Such letters often come to us. You can no more patent your proposed improve-ment than you could claim a patent for plowing by a wheelbarrow. The application is new, but the machine itself is old and very common.

C. C., of Ohio.-We shall soon announce our new pro C. C. of Onio.—we shall soon announce our new pro-spectus for Vol. 13, and we hope you will be active in getting up a club at your place. We shall offer liberal prizes, as a substitute for traveling agents upon whom the public cannot always rely. The sewing machine im-provement you propose cannot be patented It is the same in principle as one of Singer's Patents.

W. S. McKay, of Lafayette, Ind., informs us in answe to a recant correspondent that he can furnish a set of tools well adapted to Artesian well boring,

W. If B., of 111 .- We have never heard of any ma chine being employed for digging out coal in the mines It appears to us that a machine can be invented for this purpose, and produce good results.

E. S. J., of Wis.—If, as we suppose, your plows turn furrows transverse to the track of the locomotive, there is no novelty in it. On page 401, Vol. 6, of the Scientific American, you will find an engraving of substantially the same arrangement—an English invention.

J. R. G., of Wis .- Your letter, covering \$4, is at hand. We cannot inform you how the linen is prepared on which we make our drawings. It is imported from Europe in long rolls, and is the subject of an English patent

R. K V., of N. Y .- We have received a pretty large pile of articles on "the conservation offorce." all treat-ing of the nature of gravitation. Yours contains nothing new.

J. T. B., of Conn-You can obtain permanent magnet of Pike & Sons, Broadway, this city. C. M., of Mass .- You may add any coloring substance

such as logwood, to the water-proof recipe in No. 20 o this volume, without injuring its property. J. T., of Md.-The difference between exhausting the

steam of a 26 horse power engine into the atmosphere and into a tank of water, depends on the pressure of the column of water. The pressure of the atmosphere is 15 pounds to the square inch, and so is that of a column of water 30 feet high. You have not stated what the amount of pressure in your tank is, but that "it contains a large body of wood." The tank may be made shallow and the back pressure of the water reduced to a few

J. H. H., of Md.-To prepare the water-proof cemen to which you refer, dissolve the asphaltum and india rubber in turpentine, in about equal parts. Cut the india rubber into fine shreds, and reduce the asphaltum to powder, prior to dissolving them : stir them thoroughly in the turpentine, which must be kept warm, and in a vessel having a close cover.

D. B. R., of Min. Ter.-It is the caustic alkali com bined with silica, which renders the glass soluble.

E. W. D., of Mass.-Your electro-magnetic engine, composed of a series of thickly set radial armatures on a hollow shaft, to be actuated by four horse shoe electro magnets-one set at each corner of the engine frame-is not a good arrangement.

N. N. MeL., of low-. Your lightning rod insulator appears to be a new, useful and patentable improvement. H. L. of N. Y.-. It has often excited our surprise that

team has not already superseded horse power on canals. By constructing a double railroad track on the banks of the Erie Canal, and using different locomotives for different levels, we are positive that twice the amount of towage, at one-half the expense now entailed, could be performed.

T. R., of Mass .- Do not deceive yourself in making gas from water, ex, ecting to set Boston in a blaze with Cochituate. There is nothing new in producing light, and a good light too, from the gases of water, but the process is dangerous, being subject to explosions; and beides it is very expensive.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, July 3, 1857 :--

J. McC., of N. Y., \$35 : G. C. G., of —, \$20 ; C. C. S., of Vt., \$30 ; A. L , of N. Y., \$20 ; J. M., of N. Y., \$10 ; E. C., of Pa., \$100 ; S. R. H., of N. Y., \$23 ; F. & M, of Ma. 85, \$50; T J. P., of Ill., \$30; A. W., of N. H., \$30; A. F. W., of L. I., \$30; J. G., of Pa., \$35; S. C., of Va., \$10; N B. of 111., \$25; C. E. C., of O., \$22; J T., of N Y., \$25.

Specifications and drawings belonging to parties the following initials have been forwarded to the Patent Office during the week ending Saturday, July 3, 1857: M. & W., of O.; F. & M., of Mass. (2 cases); J.T., of N. Y.; S. R. H., of N. Y.: A. F. W., of Ky.; C. & S., of Ohio; C. E. C. of Ohio; N. B., of Ill.; F. N., of L. I. B. C. V., of Ohio; G. H. W. of Wis.

Literary Notices.

THE FAMILY CIRCLE GLEE BOOK.—This is a com pilation of two hundred popular songs, glees, and choruses, with accompanyments for the plano, sera-phine, and melodion, by Elias Howe. It contains some of the best songs in our language. Music in "the family circle" is one of the sweetest and most fascinating influences for rendering it an endeared and attractive spot. How soothing to the feelings, after the toils of the day are over, to listen to or join in a song which fills the heart with ennobling emotions and lifts its aspirations above things that are sordid, trivial, and vain, hence, we welcome such works as the above—their tendency is to make mankind better and happier. Published and sold by Mason & Bros., of this city. Price, \$1.25.

LLUSTRATED COMMON SCHOOL ASTRONOMY.-This is the title of a very excellent little work, by Professor Brocklesby, of Trinity College. Hartford, Ct., and pub-lished by Farmer, Brace & Co., No. 4 Courtland street, of this city. It is written in a clear and simple style, eminently, adapted for teaching the outlines of this science. Its aims are to render familiar the important truths and facts of astronomy, avoiding cumbrous details.

BLAOK WOOD'S MAGAZING.—The June number of this excellent Magazine, promptly republished by Messra Leonard Scott & Uo., contains the concluding part of "The Athelings." An article on American explora-tions in China and Japan, is a treat. It is a capital number.

..... Important Items.

COMPLETE SETS OF VOLUME XII EXHAUSTED.-We regret that we are no longer able to furnish com-plete sets of the present volume. All the back numbers previous to No. 27 are entirely exhausted.

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 postoffice is located.

Subscribers to the SCIENTIFIC AMERICAN who fail to get their papers regularly will oblige the publishers by stating their complaints in writing. Those who may have missed certain numbers can usually have them supplied by addressing a note to the office of publication.

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.

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 binding 75 cents.

PATENT LAWS AND GUIDE TO INVENTORS .- This pam 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 construction of their models with other useful informa tion to an applicant for a patent, is furnished gratis.

INVENTORS SENDING MODELS to our address should always enclose the express receipt, showing that the rule we are able, in a great majority of cases, to pre-vent the collection of double charges. Express companies, either through carelessness or design, often neglect to mark their paid packages, and thus, without the receipt to confront them, they mulct their customer at each end of the route. Look out for them

Terms of Advertising.

Twenty-five cents a line each insertion. We respect fully request that our patrons will make their adver-tisemens as short as possible. Engraving + cannot be admitted into the advertising columns. All advertisements must be paid for before inser

ting.

IMPORTANT TO INVENT-ORS.

ORS. THE UNDERSIGNED having had ELEVEN years practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they con-tinue to offertheir services to all who may desire to se-cure Patents at home or abroad. Over *itree thousacand* Letters Patent have been issued, whose papers were prepared at this Office, and on an verage *itgen*, or on-*itard* of all the Patents issued each week, are on cases which are prepared at our Agency. An able corps of Engineers, Examiners, Draughtsmen, 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 racilities which frow others posses, we are able to the patentability of inventions placed before us for ex-amination. Privale consultation areanceding the natentability of in. ami uation

the patentability of inventions placed before us for ex-amination. Private consultation-respecting the patentability of in-rentions are held free of charge, with in ventors, at our office, from 9 A. M., until 4 P. M. Parties residing at a distance are high refer of charge, with inventors, inventors, the atep necessary to secure a patent can be arranged by letter. A rough sketch and description of the improve-ment should be first forwarded, which we will examine and give an opinion as to patentbility, without charge. Models and fees can be sent with safely from any part of the ore pressible than any other city in our country. Trevalation to the sent with safely from any part of the country by express. In this respect New York is more accessible than any other city in our country. In addition to the advantages which the long experience and great success of our firm in obtaining patents present to inventors, they are informed that all inventions pat-ented through our establishment, are noticed, *at the preep-er time*, in the SockWirter of Margros, This paper is respectively wide spirad and subtantial initiaere investige than 100,000 persons every week, and en-loys a very wide spirad and subtantial initiaere oncome the patent behavior to any the patent behavior.

joys a very wide spread and substantial influence. Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S., go through our agency. MUINN & CO. American and Foreign Patent Attornies, Principal Office 128 Fulton street, New York.

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SPOKE LATHES, Blanchard's patent. Power Hub Mortising Machines, Hub Hewing Machines, Hub Boring Machines, Turning Lathes, Scroll Saws, Wagon and Coach Makers' machinery in general. We are also agents for the proprietors of the Blanchard patent. LANE & BODLEY, Cincinnati, O. 44 4*

A DOMENT, ORCHMAR, O. MARKELS... Mr. J. H. BEST-Dear Sir¹ The wheel you put in my woolen factory, of six setts, with eleven feet head, has had a severe trial-run-ning under 6 feet of water with only five joet head, while the Parker. Tripp, and other wheels (about 200 on this stream) were stopped. We can now run to speed with 300 inches of water, and before we had two wheels using 1,200 inches. You have secured a good reputation here, and can draw on me for as good a recommendation as de-sired for your wheel. Yourstruly, Awos Kirs." The above is one of Vandewater's celebrated improved Jonval Turbines, and can be hadof H. VANDEW ATEL & CO. Albany. N. Y. or of JACOB H. BEST, Spring-field, Ohio, who will furnish wheels for at y of the West-ern States. 34 2^m

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THE AMERICAN ROCK DRILL CO., invite attention to their superior machines for Artesian wells and heavy rock excuvations. Circulars and in-formation sent on application to T. H. LEAVITT, Agent, No. 1 Phœnix Building Boston. A few responsible agents wanted in the Middle and Western States 43 3* 3 agents 43 3*

DR. D. BR EED, late Assistant and acting Chief Fx. aminer in the U. S. Patent Office, has established at Washington, D. U., a chemical laboratory ier experi-ment and analysis, in order to test and improve processes of manufacture, and mechanical devices employed in the chemical arts, and to procure and defend patent rights. After many years devoted to chemistry thaving studied in the German laboratories) Dr. Breed feels confident in offering his services as a practical' chemist to inventors and others interested in the chemical arts and manufac-tures. tures. 44 4

HUGHES' ATMOSPHERIC FORGE AND Trip Hammer.—These hammers have been in suc-cessil operation for more than two years, and have ac-guired reputation of decided superiority over all others. I am now prepared to furnish them of all sizes. I will warrant them to give suisfaction to purchasers, and that they will require no repairs for one year from their de-livery. Orders addressed to me will receive prompt at-tention. B. HUGHES, Rochester, N. Y. 43 2*

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FUVE HUNDRED THOUSAND LOOMS in the United States-Wm. H. Howard's Comb Temples, patented May Z6, 18.57, are already in successful opera-tion. The principle is new, it measures every pick to an equal length, indicates the number of picks per inch, leaves a smooth and equal solvage, without displacing threads or marking cloth, simple, cheap and durable, and destined to superside all other self-acting temples. Orders for temples, or inquiries for rights to manufactures will receive immediate attention if addressed to GEO. C. HOWARD, 18th, below Market, Philadelphia. 42 4*

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