## Scientific American.

## TO CORRESPONDENTS.

R. T. V., of Pa.—You are mistaken in supposing that all Professors of Chemistry in our colleges are versed in the application of that science to the useful arts, as practiced in chemical manufactories.

E. H., of Va.-Southern flour is universally used by our pastry bakers in preference to that made from northern wheat. The dearest flour sold in New York market, this winter, came from Missouri.

R. J. C., of Conn.-Brass becomes elastic by hammer ing and rolling. Gold also becomes elastic by the same mechanical processes. If you wish to take the elasticity from gold, to enable you to bend it, heat it until it become red hot.

C. W., of Mass.-We cannot, at present. give you the desired information regarding corrugated black iron for roofing.

N.S., of Ma.s.-You can knead whiting or pipe clay with gutta percha, when heated above 212 degrees. Your bel, cannot be made of pure gutta percha. If this substance is kneaded with black lead, lamp black, and pipe clay, and then vulcanized; it will become hard and durable. G. K. & Co., of Ohio.-If you heat gutta percha it will

become soft and plastic and make cement. S. S., of Ind.—No patent could be secured for making axles and shaft; hollow; hollow shafts are well known but it is possible that you may have some new method of making them; if so you could patentit.

V. S., of S.C.—A little spermaceti and some gum arabic is mixed with the starch for the shirts, and the gloss is given to them by severe pressure and rapid rubbing with a pretty hot iron. They cannot and do not use the mangle for collars and bosoms; you can do it by hand, with con-siderable practice, but no person here wears glazed collars; they look too much like glazed calicoes. We do not know the price of the rotary smoothing iron.

S. M., of ---- Yours on the Sun has been received, but we do not know when we can find room for it. J. G., of Ill.—Your theory of anchor ice may be correct

but reliable data is wanted.

L. H., of Ohio-One ounce of the sulphate of iron re-duced to fine dust and mixed with pure lard-thoroughly incorporated with it in a mortar—makes an excellent po-matum for diseases of the skin, such as common pimples. S. of N. Y.-Submarine armor, exactly like that de-scribed by you, is quite old: we have drawings of such

an apparatus. W. S., of Mich.-We do not know the nature of West Galvanic Cement. Tydraulic cement mixed with oil and used as a paint, is about as good as any of the fire

proof cements, and is much cheaper. A. H. G., of C. W.—Some allow the shafts of their cir-cular saws to have two-eighths of an inch end play; others one eighth of an inch. You must write to the maker of your saw, stating the work it has to do-whether sawing hard or soft timber-and obtain information regarding its " rake "

T. D. B., of Tenn.-Such a portable steam saw mill as you want can be had of George Vail & Co., Morristown N. J.

Samuel J. West, of Houston, Texas, desires to correst pond with the manufacturer of Burt's Solar Compass. J. J. W., of N. J.-If you wish information about your molding machine please to send us a sketch and descrip tion of it; and don't be ashamed to sign your name to the letter.

W. W., of N. C.-Your wheel won't work ; the reason is the same as stops the perpetual motion water wheel engraved a few weeks since in our paper. What do you mean by an endless weight for a clock? See our advertisement

in the paper for terms. H. J. W., of N. Y.-Do not enlarge, rather contract your chimney towards the top, but not more than one inch per seven feet.

T. A. C., of N. C.-Slack a bushel of lime in a cask, and add two pounds of salt and one pound of the sulphate of z'nc, and mix it with water to the proper thickness for witewashing. This is the best whitewash compound

for out-houses and fences. I. R. B., of Wis.—We are out of all the particular numbers to which you refer. An upright saw does not regu-larly increase in the cut from first to last with regular feed

J.G., of Mass.-You may depend upon it that you will always be troubled with iron rust in your water while you use a wrought-irontank. We recommend you to use wooden tank.

H. W. F., of Wis.—If you have plenty of water in your creek you need not be very particular about your wheel. Get astrong one, well made in every part, and you cannot go wrong. H. H., of N. Y.-You must mix some sulphate of cop-

H. H., of N. Y. -- For must mix some suppare of copper with sulphate of iron in dyeing black with logwood. W. McB., of N. Y. -- Do not dig around your grape vines with a spade, use a fork for this purpose, or you will in jure the fine roots that spread out near the surface of the root of the spread out near the surface of the spread out of the sprea ground. In warm dry weather cover the ground around the roots with litter: this is an excellent plan to prevent

the tender roots near the surface from being scorched. R. P. T., of Pa.—When water comes in contact with wrought iron and causes rust, hydrogen is set free. Moneyreceived at the SCIENTIFIC AMERICAN Officeon

account of Patent Office business for the week ending Saturday, May 10, 1856 :--W. H., of Wis., \$25; J. C. C., Jr., N. H., \$30; S. S

Mg, Co. of Ct., \$55; J. J. U., of Pa., \$30; T. C., Jr. of L. I., \$30; N. L., of N. J., \$30; D. Z., of Ind., \$25; E. D., L. 1, 500; N. L., of N. 3, 500; D. 2, of 1nd., 520; E. D., of N. Y., 825; G. & W., of Wis, 8z, of 1nd., 520; E. D., S. & H., of N. J., 8250; C. I. L. C. P., of N. Y., 850; J. C. S., of N. Y., 8100; H. C., of Mass., 825; V. R., of N, Y., 830; J. B., of II., 825; W. H., of Pa., 825; C. R. S of Vt., 830; R. G., of N. Y., 830; W. M. B., of Ind. 810J. B. C., of Ohio, 825; J. D. P., of Mass., 830; C. Van H., of Mean 825, J. I. of C. & 805, C. H. of M. H. 800, F of Mass.' \$25; J. J., of Ct., \$25; C: H., of N. H., \$30; E. S. C., of Mcss., \$30; W. G., of Mass., \$25; J. & A. W. J.B.R., of N. Y., \$200 ; J. L. B., of N. Y., \$30.

Specifications and drawings belonging to parties with he following initials have been forwarded to the Patent Office during the week ending Saturday, May 10 :-

H. C., of Mass.; J. L. G., of Ga.; L. J., of Conn.; C. I. & L. C. P., of N. Y., (2 cases); W. H., of Wis.; E. D., of N. Y.; G. & W., of Wis.; J. N. W., of N. Y.; F. K., of N. Y.; D. Z., of Ind.; W. H., of Pa.; J. B. C. of O.; J. 4. c., of Ind.; C. Van H., of Mass.; J. S., of R. I.; J. I., of Conn.; W. G., of Mass.; S. W. R., of Mass.; A. C. R., of N. Y.; A. S. M., of Vt.; E. A. C., of N. Y.; G. A. M., of N. Y.; W. J. F. L., of Pa.

Important Items.

TO THE UNFORTUNATE-We are no longer able to sup ply the back numbers of the present volume previous to No. 27, except from 1 to 12. Such numbers as we have to furnish, are gratuitously supplied to such subscribers as failed to receive them; and we would take occasion to state, that any person failing to receive their paper regularly, will confer a favor by notifying us of the fact. Missing numbers should be ordered early, to insure their receipt, as an entire edition is often exhausted within ten days after the date of pub lication.

MODELS-We shall esteem it a great favor if inventos will always attach their names to such models as they send us. It will save us much trouble, and prevent the liability of their being mislaid.

PATENT CLAIMS—Persons desiring the claim of any in vention 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 as fees for copying.

## Literary Notices.

Eliterary pointes. BLACKWOOD'S MAGAZINE—This redoubtable champion of British Tory politics, republished by L. Scott & Co., No. 54 Gold St., this city, is always able and full of vicor. The number for this month contains articles on The Laws Concerning Women, Allison's History of Europe, Prescott's Philip II., The Scot Abroad, &c. It is one of the best numbers ever published. A high and deserved compliment is paid to our gifted historian, his works are called *charming*; and the philosopher pursuing his spec-ulations upon humanity, it is stated, "can nowhere find richer materials than in his volumes."

COURTSHIP AND MARRIAGE-By Mrs. Caroline Lee Hentz. An American tale, full of vivacity, interest, and graphic pen portraiture. The ups and downs, the joys and sorrows of daily life, are here pictured with singular fidelity. T. B. Peterson, Philadelphia, Pa., is the pub-liabor fidelity. lisher.

INDIA: OR. THE PEARL OF PEARL RIVER—Another of those charming volumes from the fairy pen of Mrs. Emma Southworth. Her works are known all over the land as well for the absorbing interest which she weaves around her subjects as for the moral lesson which she al-ways seeks to convey through them. T. B. Peterson, pub-lisher, Philadelphia.

SELECTIONS FROM SPANISH POETS—BY Professor G. F. de Vingut. This is a volume of translations into English from the most colebrated Spanish poetic writers. Those who are at all acquainted with the beauties of Spanish literature will at once conceive that this book must be, and it really is, acasket of gems. Lockwood & Sons, pub-lishers, 411 Broadway, N. Y.

MAJOR JONES' SKETCHES OF TRAVEL-We have be-fore noticed a book by that inimitable comic penman Ma-jor Jos. Jones, entitled, "Major Jones' Courtship." Hav-ing duly married and satisfactorily settled his domestic affairs, the Major starts off on a tour of observation from Georgia to Canada, and the present volume is the fruit thereof. It is brim full of the humorous, spiced with the moral, and over-running with the grotesque and amus-ing. The illustrations are by Darley. T. B. Peterson, publisher, Philadelphia.

LESLIE'S GAZETTE OF FASHION for May is an excel-lent number; full of engravings.

LESLIE'S NEW YORK JOURNAL for May is also very interesting. This is a pictorial work, large quarto size, full of good miscellaneous reading. Office No. 12 and 14 Spruce St., N. Y.

AMERICAN JOURNAL OF SCIENCE AND ART-We have received the May number of this valuable and inter-estingscientific contributions, from which we shall here-after probably make extracts. Professors Sillinan, Dana, Gray, Agassiz, and Gibbs are the editors. Putman& Co., N. Y., publishers.

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## **IMPORTANT TO INVENT-**

ALLE ORSTANT TO INVENT-ORS. THE UNDERSIGNED having had Trn years practical experience in soliciting PATEXTS in this and foreign countries, beg to give notice that they con-tinue to off ertheir services to all who may desire to se-cure Patents at home or abroad. Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average ifteen, or one-third 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 facilities which few others posses, we are able to the patentability of inventions placed before us for ex-amituation.

give the most correct counsels to inventors in regard to the patentability of inventions placed before us for ex-amituation. Private consultations respecting the patentability of in-ventions 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 the steps 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 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 making an application. 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-ertime, in the Scientriric Americans. This paper is read by not less than 100,000 persons every week, and en-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 agenty. American and Foreign Patent Attornies, Principal

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The Supreme Court of the U. S., at the Term of R83 and 1854, having decided that the patent granted to Nich olas G. Norcross, of date Feb, 12, 1850, for a Rotary Pla ning Machine for Planing Boards and Planks 1 :not an infringement of the Woodworth Patent. Rights to use the N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, 208 Broadwary, New York.

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