Scientific American.

TO CORRESPONDENTS

A. H., of Ill.—Prof. Page has long since anticipated you in the construction of a tubular carrying telegraph. His electro-magnetic engine consi ts of a tube composed of wires, through which a piston is caused to travel with lightning velocity by the application of the galvanic bat-The tube may be made of indefinite length, so that a tubular telegraph for conveying small packages with tremendous speed, might be constructed. The principal difficulty would be the enormous amount of battery power required, and the consequent expense of operating such a telegraph. The grand trouble with all electro-magnetic machines is the cost of working. What is wanted to give them success is a galvanic battery which will eat up less money than the steam engine. Whoever invents this will have made the last great discovery of the age. Your idea of causing a ball to roll on a magnetic bar, placed in side of a non-conducting tube, with a battery inside of the ball, is impracticable; at least we do not conceive of any successful method by which you could make the ball tray. el, except on Page's plan. It must have required a grea deal of courage to attack the inventor you name. You will probably be welcome to all the laurels you win.— Look out that you do not find yourself going up "Salt River" in the next boat after him. It is sad to see broth

O. S. F., of N. Y.-Wheeled chairs for invalids are quite common; there may be something patentable in your mode of attaching the small steering wheel, provided it effects a new and useful result, either inguiding the chair or cheapening the price.

S. C., of Va.—There is nothing patentable in the use of a piston valve as a safety valve, and we doubt much whether such a device would operate as well as the pup-

C. M., of Mo .- We think F. H. Smith, of Baltimore Md., can supply you with such a brick machine as you desire. We would state here for the benefit of the makers of all good brick machines, that we have frequent in-quiries for such articles, and if some of them would insert a brief advertisement in our columns, we presume it would accommodate many, as well as prove advantageous

H. B. N., of Pa.—We cannot determine as to the cla on your gate unless you send a model.

G. S., of Pa.-The use of glass as an anti-friction ma terial in journal boxes and bearings, is quite old and not patentable.

D. C. H., of O .- Patents for improvements (not additional) on machines already patented run 14 years. They are independent of the original grant, so far as duration is concerned. No patents are issued in Canada except to

J. M. C., of N. C.-The idea of operating switches by means of a cam or arm projecting from the engine and controlled by the engineer, is not new. There are many devices for the purpose, and among them the essential features of your plan. There is nothing patentable in your arrangement.

of N. Y.—There s nothing patentable in your propeller. Perhaps a patent could be had on your cot-

..-It is a very common practice to send telegraphic messages and letters in cypher. There is nothing of patentable novelty in your idea, neither would there be in the detail.

E. S. L., of Va .- Your plan of making ice by elevating tanks of water into the aerial regions of perpetual snow and ice, by means of balloons, is certainly new and patentable. We doubt its economy, however; we think it is far cheaper to cut the ice out of mill ponds Your plan of making cannons possesses no advantages, and is not patentable. \$2 received.

J. T. & Co.-Your model has arrived. Your improve ent in shingle machines strikes us as containing patentable features. It looks as if it was a valuable invention We will make your claims as broad as they will bear, and will do our best for you throughout. Send on the fee of \$30. \$1 received. You did not give your address or we should have written by mail.

G. L. W., of Md -Your letters on Spiritualism will re ceive attention beforelong.

R. M. S., of N. J.-Get a vertical evilindrical boiler for such a small engine; it requires only to evaporate half a cubic foot of water per hour and contain three cubic feet. It should be of thiniron plate.

H. A. II. -We do not know of any book devoted to Christian names. Copyright costs \$1.

E. S., of Ga.-Your device for feeding water into steam boilers was patented twenty-five years ago, and has been again invented by at least a score of men within four or five years past. We cannot tell why it has never come into general use, as several who have tried it say, as you do, that it works well.

D. A. W., of Vt.—We are not acquainted with a work

that treats extensively on flouring mills.

R. M. C., of Pa.—If A buys a patent right for a certain

county, B is liable if he uses or sells in any manner in that county, no matter where he got his machine. A is exclusive owner to the county be purchased.

W. J., of Mass.—One patent would not cover both inventions. There appears to us to be more originality in the last model than in the other. We do not see what could prevent it operating.

A. W., of N. Y.—If inventors will neglect to secure

their improvements where they have the opportunity, they must put up with the consequences. We think you are mistaken as to the horse power.

S. N. C., of Ill.-\$15 will cover the cost of illustrating

G. H. B., of Ga.-Ames' Polygraph, we believe, can be the expense. We will send your letter to the agent.

D. G. T., of Ky.—We cannot see how it is possible for your condenser to act as you think it will without an air p:ump. Admitting that when a vacuum shall have been produced water, will enter at the bottom and rise in the center tube, and discharge itself in jets into the outer tube, when steam is admitted by the opening of the eduction valve, it will drive the water rapidly down the tube, but we think will condense very little steam, as it will not re

main long enough.

R. B., of N. Y.—Your governor is not new; the same thing has been proposed many years ago. We do not know of its ever having been in use. We do not exactly understand your blower, but state for your information that there are rotary blowers in use which collect the air at the periphery and discharge at the center.

C. R. G., of Iowa-Giving a spiral or other form to bul lets, for the purpose of making them revolve as they pas through the air, is old and not patentable.

Money received at the Scientific American Office on Saturday, Aug. 11, 1855 :-

R. G. & Sons, of Mass., \$30; H. N., of Me., \$35; J. W B., of Ark., \$40; E. G., of N. J., \$30; H. R., of N. Y., \$60; I. C. C., of Mich., \$30; J. C. S., of Mass., \$10; H. H. L., of Ill., \$25; J. A. B., of Ill., \$12; J. A., of Pa., \$25; W. V. G., of Ct., \$70; H. B., & O. S. W., of Ind., \$25; J. H. J., of Iowa, \$25; H. N. S., of Ct., \$30; E. D. C., of Ct., \$10; S. & W. H. B., of O., \$30; E. V. P., of N. Y., \$225; D. N. R., of N. Y., \$277; W. P., of Miss., \$30; G. H. T., of N. Y., \$55; W. S., of N. Y., \$150; J. H., Jr., of Wis, \$155; H. M. C., of Ct., \$10; B. & C., of Mich., \$30; J. A. S., of Pa., \$30; W. M., of N. Y., \$20; B. & H., of N. Y., \$30; C. T. C., of N. Y., \$20; W. & B. D., of Ct., \$25; D. B., of Vt., \$12; S. B., of N. Y., \$35; C. W. S., of Mass., \$25; S. A. K., of Pa., \$20; C. J. C., of Pa., \$50; J. W. H., of R. 1., \$150; J. C. H., of N. J., \$30; A. K., of Ct., \$25; C. D. W., of Wis., \$40; R. D. N., of N. H., \$30; J. H., of Pa., \$30; P. H., of N. Y., \$55; S. T. P., of N. J.,

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Aug. 11:—

E. D. C., of Ct.; J. A. B., of Ill.; O. S. W., of Ind. H. H. L., of Ill.; J. A., of Pa.; E. R. B., of Ct.; W. V G., of Ct.; S. & W. H. B., of O.; F. K., of France; A. P., of France; G. H. T., of Mass; A. K., of Ct.; J. H. J. of Iowa; J. W. B., of Ark.; W. & B. D., of Ct.: S. B., of N. Y.; C. W. S., of Mass.; P. H., of N. Y.; J. L. T.,

Important Items.

BACK NUMBERS AND VOLUMES-We have the following numbers and volumes of the Scientific America: which we can supply at the annexed prices: -Of Volume 5, 40 numbers, bound, \$1,75. Of Volume 6, all,—price in sheets, \$2; bound, \$2,75. Of Volume 8, none complete, but about 30 numbers in sheets, which will be Volume 10, all except Nos. 17, 25, 25, 27, and 28, at the subscription price.

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 for fees for copying.

RECEIPTS—When money is paid at the office for subscription, a receipt for it will always be given; but when sub scribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledge ment of the receipt of their funds.

Models-We are receiving almost daily, models of in ventions which have not the names of their inventors marked upon them. This usually prevents us from taking any notice of them whatever. We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and sometimes prevent the model from being mislaid.

PATENT LAWS AND GUIDE TO INVENTORS .- Congress having adjourned without enacting any new laws per taining to applications for patents, we have issued a new edition of the old laws, which may be had at our counter or sent by mail. This pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office. Price 12 1-2 cents per copy.

Terms of Advertising. 4 lines, for each insertion, 12 "

Advertisements exceeding 16 lines cannot be admitted, neither can engravings be inserted in the advertising columns at any price,

All advertisements must be paid for before insert

IMPORTANT TO INVENT-ORS.

**ORS.*

IMIC UNDERSIGNED having had TEN years** and foreign experience in soliciting PATENTS in this and foreign countries, beg to give notice that they continue to offer their services to all who may desire to secure Patents at home or abroad.

Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average lifteen, 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 or a long practice, and facilities which few others possess, we are able to give the most correct coursels to inventors in regard 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 unnece-vary 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 sknoth and descript in 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 thanany other cityin 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 patent, precent to inventors, they activities of the countries pat-

In addition to the advantages which the long experience and great success of our firm in obtaining patent, pre-ent to inventors, they are infurined that all inventions patented through our establishment, are noticed, at the propertient, in the Schenric American. This paper is read by not less than 100,000 persons every week, and enjoys a very wide spread and subsanital influence.

Most of the patents obtained by Americans inforeign 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.

American and Foreign Patent Attornies, 123 Fulton street, New York; 32 Essex Strand, London; 29 Boulevard St. Martin, Paris, 6 Rue D'Or, Brussels.

A GOOD DRAUGHT-SMEN WANTED, who is handy in the use of tools, and can take efficient charge of a few workmen. 18 Platt st, 19tf

BULKLEY'S PATENT BRY KILNS, by Superheated Steam, will dry grain, flour, and meal withoutscorching, at a cost of 2 cents per bbl. Also green inch lumber in 12 to 20 hours. Circulars sentfree on appication.

H. G. BULKLEY.

Kalamazoo, Mich.

TWENTY-SEVENTH ANNUAL FAIR OF THE AMERICAN INSTITUTE of the City of New York. The Managers announce that they have made arrangements to hold this exhibition in the Crystal Palace, commencing on Wednesday, the 3d of October next. This magnificent and spacious building will be opened for the reception of articles, from Thursday, the 2fth of September, until Tuesday, the 2fth of September, until Tuesday, the 2fth of September of Articles from the 1sth of September of Chices will be opened on Fortich street for the entry and reception of articles. Premiums consisting of Gold and Silver Medals, Cups and Diplomas, will be awarded on the recommendation of competent judges. The Managers would impress upon Exhibitors the necessity of giving immediate notice of the space required for the proper display of the articles they intend to exhibit. Circulars, containing full particulars, can be had on application at the Office of the Institute, No.351 Broadw 1y. Communications addressed Win. B. Leonard, Corresponding Secretary, will meet with immediate attention. By order of the Managers.

John W. Chambers, Secretary.

RAHIBITION OF THE MARYLAND INSTITUTE,
Baltimore.—The Eight Annual Exhibition by the
"Maryland Institute, for the promotion of the Mechanic
Arts," will be opened on Tuesday, 2d of October next.
Goods will be received for exhibition and competition at
any time prior to September 2th. and for exhibition
merely, as late as 1st of October. The co-operation of the
manufacturers, mechanics, artists, and the community
generally is respectfully invoked in the immediate preparation of articles for display. All articles deposited must
be of American manufacture, the only exception to this
rule being in favor of rare specimens in the department
of the Fine Arts, owned by parties not holding them as
merchandise on sale. Circulars, embodying the regulations and arrangements, and blank applications for space,
with all other information may be had at any time of the
Actuary of the Institute, at the Hall.

JOSHUA VANSANT,

Chairman of Exhibition Committee.

PREMIUM SELF-ACTING Drilling Machine—the most perfect yet produced. The American Institute of New York, and the Massachusetts Charitable Mechanics' Association, each awarded to it a silver medal and diploma. For sale at the Atlas Foundry, corner of Greene and Wayne streets, Jersey City. Price, \$250.

1. J. F. WARD & CO. PREMIUM SELF-ACTING Drilling Machine most perfect yet produced. The American Inc.

IMPORTANT TO QUARRYMEN, Stone Cutters, Contractors, and Builder,s—Porter's Patent Spring Hammer Stone Dressing Machine. The Porter Stone Dressing Machine Co., having purchased the patent for the above invention, are now prepared to sell rights to use the same, and to furnish Machines, and erect them at any place within the United States. This machine may be seen inpractical operation at the works of the Company, in the city of New York, on lith street, between 9th and 10th avenues, where parties interested in the business of working stone, and the public generally, are invited to call and satisfy the mselves as to its utility. The Machine is very simple in its construction, and not lable to getout of order. It works with about equal advantage on every kind of stone, and will perform the labor of from twenty, five or fifty men at a total expense of from \$8 to \$12 per day. It produces a finely finished surface, leaves a perfect arris, and cuts moldings with rapidity and beauty. Its operation is precisely that of the mallet and chisel in the hands of the workman. It combines great power with the nicest delicacy, and has received the unitorm and decided approval of practica men. In addition to its regular work, it will be tried on any stone, and subjected to any test, that parties examining it may desire. To those who are una ble to visit the Machine personally, a circular with engravings and a full description will be sent on application. Office of the Porter Stone Dressing Machine Co., 37 Wallst., New York.

A. B. CAPWELL, Prest. 47 Sec.

TO FAILMERS AND ALL OTHERS INTER18-53. "The Year Book of Agriculture, will be published in October,
18-53." The Year Book of Agriculture, or the Annual of
Agricultural Progress and Discovery for 18-53. "e-shibliing the most important discoveries and improvements in
Agricultural Mechanics, Agricultural and Hortucultural
Botany, Agricultural and Economic Geology, Agricultural
Zoology, Meteorology, Acc.: together with substitute of
American growth and productions; a list of recent Agricultural Publications, Agricultural Patents—with notes
by the Editor on the Progress of American and Foreign
Agriculture for the year 18-55. By David A. Wells, A.

The Year Book of Agriculture will be published in
1 Vol. 12mo., of 400 pages, and will contain an elegant
steel portrait of a distinguished agriculturis, together with
illustrations of mechanical improvements, stock, fruits,
&c. Although the publication of this work will be attended with very heavy expenses, it will be published at
the low price of \$1.25, thereby enabling every farmer to
posses a copy. On receipt of the published price it will
be sent free per mail to any part of the Unitus States. As
the sale will be very large, all orders should be sent in
immediately. A liberal deduction to Clubs. Address
CHILDS & PETERSON, Publishers,

1 21 Arch street, Philadelphia.

SAWS-PATENT TEMPERED AND Machine-Ground Saws. Circular Saws manufactured on these improved principles can be used thinner and with less set, and can be run faster than any hitherto made. All sizes warranted perfectly even in thickness and temperarid made of the very best naterial. HENSIAW & CLEMSOM, 21 Exchange st., Boston.

APETY RAILROAD DRAWBRINGES AND Self-Locking Switches, (Patented.)—This invention will secure to the traveling community perfect safety while journeying on railroads. The apparatus is so arranged that simultaneously with the opening of a draw, awitches (on each side of the river) are unlocked and moved to connect with inclined sidelings; and at the same time signals, attached to the switch bars are made to indicate that the draw is open. The self-locking switches can be used separately at any of the turn-outs of a railroad, and thereby prevent the constantly recurring accidents occasioned by neglect of bolting switch levers, as these witches bolt and unbolt themselves when moved by the draw of a bridge or the lever at a turn-out. For the purchase of rights under the patent or in-section of a model, apply to J. K. (±3MMIRLE & BROTHER, No. 5 Margaretta st., near Front, Philadelphia.

ATHEM VPICAL INSTRUMENTS—The undersigned furnishes, free of charge on application, to all part of the 1 inted States, his new Illustrated Catalogue of Mathematical, Optical, and Philosophical Instruments.

C. T. AMSIAER,

Zll Chestnut st., Philadelphia, Pa.

VENTILATION—The under sixned has devised and patented the only system by which a spontaneous rentilation can be effectually carried out in buildings, vessels, railroad cars, &c., and will sell to parties desirous of purchasing of the same at a reasonable price. Address H. RUTTAN, Coburg Canada.

THOUGHT IRON PIPE—Boiler Flues, Globe Cups, and every variety or fittings and fixt ires for steam, water, and gas, manufactured and sold by JAMES O.
MURSE & CO., No. 79 Johnst., N. Y.

49 12*

MACHINETS AND ENGINEERS—METAL.

LIC OIL, patented by Cumberland Brothers April, 1349. This Oil is manufactured and sold by the undersigned, the genuine article, \$1.80 per gallon. Also Yock, ney's improved Lubricating Oil, postessing all essential properties for oiling, both light and heavy machinery, to the same degree as perm oil, in packages containing from 5 to 300 gallons, to be had only of the manufacturer. This oil is unform in quality, is free from unpleasant odor, is not inflammable, although excellent for burning in lamps, and it will not, under any circumstances, corrode or gum on machinery.

ACG, STUS VOCKNEY, 49.28

Other 37 Exchange Place, New York.

A handy in the use of tools, and the use of a few workmen. 18 Platt st,

BAG LOOMS—Any person withing to purchase paterninute. The paterninute of wishing for looms for weaving seamles bars (out of the State of Maine), will please apply to BEO. COPELAND, North Gray, Me.

BULKLEY'S PATENT DRY KILNS, by Superbeated the paterning out secreting, at a cost of 2 cents per bbl. Also green inch lumber in 12 to 29 hours. Circulars sentfree on application.

H. G. BULKLEY'S PATENT DRY KILNS, by Superbeated the paterning of the paterning and a cost of 2 cents per bbl. Also green inch lumber in 12 to 29 hours. Circulars sentfree on application.

H. G. BULKLEY'S PATENT DRY KILNS by Superbeated the paterning of the paterning and solvery description of look libs, price \$2.90; the resize in proportion. 29 e3w Superbeated the paterning of the paterning of the paterning and composition Casting, Lathes. Shading, Model Makers, No. 352 West 27th street, mean 1th Avenue, New York. Models of every description made to order with dispatch 155 books.

NORCROSS ROTARY PLANING in The Supreme Court of the U. S., at the Term of Nos and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb, 12, 1859, for a Rotary Planing Boards and Planks is 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 Broadway, New York.

THE EUROPEAN MINING JOURNAL, RAILway and Commercial Gazette. A weekly newspaper, forming a complete history of the Commercial and Scientific Progress of Mines and Railways, and a carefully collated Synopsis, with numerous Illustrations, of all New Inventions and Improvements in Mechanics and Civil Engineering. Office 26 Fleet street, London. Price \$6,50 per annum.

POWER PLANERS—Persons wanting Iron Planers of superior wormanship, and that always give satisfaction, are recommended to the New Haven Manufacturing Company, New Haven, Conn.

ATHES, PLANERS, and all kinds of Machinista' Tools of the best description on hand and made to order by SHRIVER & HROS., Cumberland, Md., (on Baltimore and Ohio R. R., midway between Baltimore and the Ohio River.)

A NDREWS & JPSUP—Commission Merchants, Cotton and Woolen Machinery, Steam Engines, Machinists' Tools, Belting, &c., Importers and Dealers in Manufacturers' Articles; No 67 Pine street, N. Y. 22 IV

ACHINISTS, TOOLS—Manufacturers, Mechanics and Railroad Supplies, Locomotive and Stationary Engines, Steam Boilers, Belting, Cotton and Woolen Machinery, Water Wheels, Pumps, Blowers, &c.
FOSTER & LEACH,
25 Broadway, N. Y., Selling Agents of the Lawrence Machine Shop.
36 13*

Planers, Engine and Hand Lathes, Drills, Holt Cutters, Gear Cutters, Chucks, &c., on hand and finishing, These Tools are of superior quality, and are for sale low for cash or approved paper. For cuts giving full description and prices, address, "New Haven Manufacturing Co." New Haven, Conn.

HARRISON'S GRAIN MILLS—Latest Patent.—\$1000 reward offered by the patenties for their equal. A supply constantly on hand. Liberal Commissions paid to agents. For further information address New England Manufacturing Co., New Haven, Com., to S. C. HILLS, our agent, B Platt street, New York 13:f

B.ELY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs. Munn & Co., Scientific Ameri-la ly*

VAIL'S CELEBRATCD PORTABLE STEAM Engines and Saw Mills, Bogardus' Horsepowers, Smut Machines, Saw and Grist Mill irons and Gearing, Saw Gummers, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch.

8 ly* LOGAN VAIL & CO., 9 Gold st., N. Y.

ONE THOUSAND YOUNG MEN of small means can make over 100 per cent.. in a new respectable and Cran make over 100 per cent., in a new, respectable and easy business in universal demand. Apply (enclosing tamps) to COOK & CO., Detroit, Michigan. 48 2*

1855 —WOODWORTH'S PATENT Planting, The subscriber is constantly manufacturing, and has now for sale the largest and best assortment of these unrivalled machines to be found in the United States. Prices from \$15 to \$1450. Rights for sale in all the unoccupied Towns in New York and Northern Pennsylvants, JOHN GHE SON, Planing Mills, Albany, N. Y. 43 10*

For sale at manufacturers prices, by FOSTER & LEACH, 20 Broadway, N. Y. 37 13*

A MERICAN PLATE GLASS COMPANY—(Factory Williamsburgh L. I.) are now prepared to execute orders for rough Plate Glass suitable for floors, subjects, vault, and deck lights. Prompt attention will be given to orders left at their office, 442 Broadway, or their agent, J. R. PLATT, 79 Murray st. 42 8*

CAPITALISTS WANTED TO TAKE PATents Abroad—Mr. L. G. Evans of Spring Hill, Ala.,
has just taken a valuable patent in this country for an improvement in plows, and desires to find some person who will, for an equal share of the invention in England or any other foreign country, pay the fees necessary to take the Patent. The cost would be about \$330 for England, \$150 for France, etc. For particulars address L. G. EVANS, Spring Hill Post Office, Ala.

Water Wheel Co., Wareham, Mass., are now manufacturing to order, Warren's Turbine Water Wheels, from new and improved patterns, got up expressly for manufacturers. These turbines are made inthe mest perfect manner, and on the most scientific principles. Cotten and weolem manufacturers will do well to examine them before purchasing elsewhere. We also manufacture a cheap turbine on nearly the same plans, but with less finish and less cost. They are well adapted to grist mills and small manufacturing establishments.

J. WARREN. Agent.

GRAIN MILLS—EDWARD HARRISON, of New Haven, Conn., has on hand for sale, and is constantly manufacturing to order, a great variety of his approved Flour and Grain Mills, including Bolting Machinery, Elevators, complete with Mills ready for use. Orders adressed as above to the patentee, who is the exclusive manufacturer, will be supplied with the latest improvements. Cut sent to applications, and all mills warranted to give satisfaction.

TER % PLASS, foot of 30th st, East river, N. York, are now building, and have constantly on hand, Lathes, Drillers, Planing Machines, Soltting Machines, Bolt Gutters, Gurfacing Machines, or will make to order any other tools of any capacity required. The above Tools combine all the latest improvements, and the let workmanship.

FRGNES' ELECTRO-CHEMICAL BATHS,—
three years aco, a method for extracting metallic substances from the human system, such as mercury, lead,
sliver, arsenic, etc., by means of electro-chemical baths;
and also to cure all dise ases generated by them, viz.—
Dyspepsia, Rheumatism, inflammatory or chronic; Paralysis, Painter's Colic, etc. This theory has created
much sen-auton both in this country and Europe, and has,
in all cases accomplished what it claims. Not being able
to attend to the numerous calls he had daily from the afflicted. Prof. Vergnes has made an arrangement with Dr.
tinikiuson, who will hereafter be in attendance, for the
purpose of assisting in giving the baths, and also forgiving
medical advice. N. B. The theory will be fully explained
and certificates given to all competent persons who desire
to establish similar baths. VERGNES' ELECTRO-CHEMICAL BATHS,—
200 6th Avenue. Professor Vergnes discovered, some

Scientific American.

Science and Art.

The Art of Dyeing.-No. 34.

DYEING FEATHERS-In our last article the method of dyeing feathers black was described, and although it was not intended originally to say any more respecting them, another article on the subject will be found useful to many as such information is difficult to obtain.

The feathers of birds colored with the richest hues, are one of the most beautiful ornaments in animated nature. Some savage nations have exhibited great skill in blending the beautiful feathers of birds into various articles of dress, but the ancient Mexicans carried the arranging of colored feathers to such a degree of perfection as to use them the same as we do Tetters. Feathers are used in dress in all countries, and it will have been observed that they become fashionable ornaments about every ten

All feathers in their natural state are somewhat greasy, and resist efforts to color them in that condition. This grease must first be removed by steeping them for about fifteen minutes in very strong warm soap suds, after which they are washed, and are fit to be dyed. Being of an animal substance, their nature is akin to that of wool and silk. The same coloring matters and processes are therefore employed to dye them as for silk dyeing, only they require a little higher temperature of liquor, and more time in it. They are colored by themselves in small neat copper kettles, and carefully handled. By using the same substances, therefore, and pursuing the same methods as those described in the foregoing articles for dyeing silk, the same kinds of colors will be produced on feathers. The strength of the mordants and the dye stuffs must be proprotioned to the weight of feathers. Blue is colored with the sulphate of indigo; yellow with turmeric made slightly sour with vitriol, and red with cochineal. Logwood, muriate of tin, and a little tartar will color them purple, and a mixture of the sulphate of indigo and turmeric will dye them green. Feathers for ladies' hats, however, should never be colored with turmeric, because sunlight soon dissipates it; fustic therefore should be used in place of the turmeric. Orange can be dyed with annato. They can be dyed a most beautiful gold color by giving them a light dip in annato, then dyeing them a full yellow on the top with a liquor of quercitron bark and the muriate of tin at a scalding heat. A rich maroon can be dyed by steeping the feathers for an hour in a strong hot liquor of peachwood, and a very little alum and logwood.

If feathers are carefully handled they can be dyed more easily than silk. Our farmer's daughters, by following the above directions, and using the receipts presented in preceding articles, may dye white feathers any color they choose.

It will have been noticed that some artificial ostrich plumes have exceedingly long and delicate fibers. These are not natural, but made by tying a number of fibers together. This work must be done with great care, so as to have the knots very small. These fibers are gracefully curled and very showy; the curling is also done by art, and in a most simple manner.

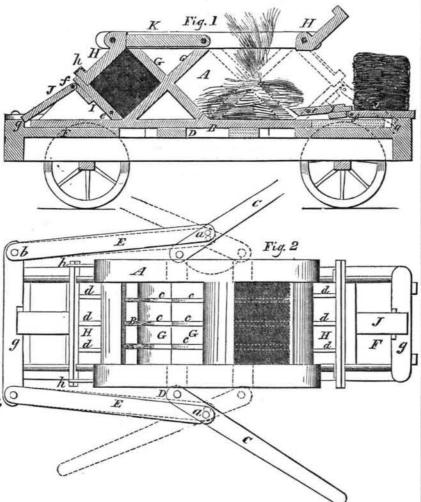
Before the feathers are quite dry (after being dyed.) these fibers are drawn a number of times between the thumb and the edge of an ivory knife, like that used by book folders, and from this action become beautifully curled. This operation must be performed delicately, and come out again until the feather becomes wet. A feather may be dyed in varigated colors by suspending it by a cord and immersing one end in the dye liquor, then the other in a different liquor. Thus, to color one part of a feather yellow and the other green, suspend or hold the feather in a turmeric or fustic liquor. then take it out and wash it, and add a little sulphate of indigo to the same liquor, and hold that part of it to be dyed green (excluding the part to be kept vellow) in it for ten minutes. when it will be colored green. In this way, by carefully handling in different dye liquors, one feather may be dyed so as to have part a raised or closed are also inclined but in a re-

purple, another part yellow, another part blue, another green, and another red. This art is a introduce some new and beautiful articles of named the Katy-did. The Widgeon, a new domestic manufacture composed in part of col- yacht by George Steers, though not the winored feathers.

Regatta.

The Regatta of the New York Yacht Club very interesting one to practice. By a little took place at Glen Cove on the 3rd inst. The ingenuity and taste, many young ladies might winner was a small sloop, 16 tuns burden, ner, was esteemed the best sailer.

MANNY'S IMPROVED HAY PRESS.



The annexed figures represent an improved | verse position to the doors, H H. The upper Hay Press, for which a patent was granted to ends of the doors, I, rest or bear against the Pells Manny, of Waddam's Grove, Ill., on the lower ends of the doors, H, and the doors, I, 17th of April last.

the press, the plane of section being through the center, and figure 2 is a top view of the press. Similar letters indicate like parts.

A represents a rectangular box or case having a sliding bottom, B, to each side of which at about its center, there is attached by a pivot a lever, C. The levers are attached to the ends of a cross piece, D, which is secured to the under side of the bottom, B. The fulcra of the levers, C, are at the ends of levers or arms, E E, shown at a, fig, 2, and the levers or arms, E E, are secured by pivots, b, at one end of the base or platform, F, on which the box or case, A, is secured. To the upper surface of the center of the sliding bottom, B, there are secured two followers, G G, which are so inclined as to cross or intersect each other at right angles, fig. 1. These followers correspond in width to the interior of the box or case, A, as shown in fig. 2. The upper parts of the followers above the point of intersection have longitudinal slots or recesses, c, cut in them, as shown

To each end of the box or case, A, and at its upper part there is attached a door, H, which is so arranged as to be allowed to swing up and down, the upper cross pieces of the continued until the feather is dry. To facil- doors having their ends fitted in the top side and the bale withdrawn. The slots, c and d, itate the operation, it is generally carried on pieces of the box or case, so as to turn therein. afford facilities for hooping the bale. While before a fire. The curls thus produced will not The doors, H, have slots or recesses, d, cut the hay at one end of the box or case is being through them.

The ends of the sides of the box or case, A, are not vertical but inclined, so that when the doors, H H, are down or closed, they also will be inclined at angle of 45 deg., and corresponding with the inclination of the followers, G G. The doors, HH, when closed cover only about one half the ends of the box or case, A, (the upper parts,) and there are consequently other doors, I I, one at each end of the box or case, which are secured to it by pivots, e, which pass through the sides of the box or case and into the sides of the doors. The doors, I I, when

are secured in a closed state by bars, J. one Fig. 1 is a vertical longitudinal section of end of which is secured by pivots, f, to the upper ends of the doors, I, and the opposite ends fit in notches or recesses, g, in the ends of the base or platform, F. The upper doors, H H, are secured in a closed state by hooks, h, which catch over the lower cross-piece of the doors. To the upper part of the box or case, A, and at about its center there is attached a lid. K.

Suppose the operation of pressing to be now first commenced. The doors, H I, at each end of the box or case, A, are closed and the hay to be pressed is placed in the box or case, A, at one side of the lid, K, and the lid is then closed over the hay. Power is then applied in any proper manner to the levers' CC, and the sliding bottom, B, is moved, and with it the followers, G G, and the hay is compressed in the form of a square bale between the doors, H I, at one end of the box or case, and the followers, G G, it being understood that the upper part of one follower, and the lower part of the other, form the face or pressing surface at each side of the two followers, and as the doors, H I, are inclined to correspond inversely with the followers, it follows that the hay will be compressed in the form of a square bale. When the hay is compressed the doors, HI, are opened compressed, or while the bale is being hooped or removed, hay is placed in at the opposite end to be compressed at the return movement of the followers.

By this press, a bundle of hay is pressed at each movement of the followers, and consequently no time is lost in running back the followers and hooping the bale, as this is done while the box or chest is being filled for the succeeding bale. By having the followers and box or chest so arranged as to press at each movement of the followers, the levers, C, are allowed to have a short purchase, as the followers are not required to be moved so far to

receive the same amount of hay, consequently a proportionate amount of power is gained by having the followers and doors in inclined positions, as shown, the hay is compressed towards the center of the bale, and the pressure which in the mass of presses is exerted against the sides of the box or case, is in a greatmeasure avoided.

More information respecting this convenient press for hay, cotton, &c., may be obtained by letter addressed to the patentee at Waddam's

Death of an American Engineer in Europe.

Major T. S. Brown died at Naples on the 30th of June last. He was at one time chief engineer of the New York and Erie Railroad. He was selected by the Emperor Nicholas to fill the place made vacant by the death of Col. Whistler. He lost his health in Russia, and while seeking relief in a more genial clime, he departed this life.

Literary Notices.

THE NATIONAL MAGAZINE.—This high-t-oned moral magazine for Augus, contains a wood cut and sketch of the lamented Rev. G. G. Cookman, who was lost on board the steamship President. It also contains the "Acadia" of Longfellow, illustrated with many beautiful engraving. It also contains a very good short sketch of James Watt, but the wood-cut of his statue accompanying it, is a very indifferent one in deed.

THE WESTMINSTER REVIEW—This able foreign Quarterly, for July, has been promptly issued by Messrs. Leon-ard Scott & Co., 54 Gold street. It contains articles on Spinoza. International Immorality, Self-Education. Physical Errors of Teetotalism, The Earth and Man, the Foreign Policy of the United States, and Cotemporary Literature. It is a splendid number. The Reviews, published by L. Scott & Co., are the best in the English language.

COACHMAKER'S MAGAZINE—This excellent Magazine for August, contains an engraving of the neatest Phæton, named 'Saladee's Extension Phæton.' we ever saw; besides this, there are engravings of a new Sulky, a light Rockaway, and a Box Buggy. It is an excellent number.

THE MINING MAGAZINE.—This most useful Magazine has not been published lately so regularly as heretofore; we regret this, because it is so ably conducted, and contains so much thoroughly scientific information relating to Mining and Geology. Edited by Wm. J. Tenney, 96 Broadway.

NAUTICAL MAGAZINE—This Magazine for the present nonth contains some capital articles. It asserts that ship building is but in its infancy, and has the "go-a-head" spirit in it. It is edited and published by Griffiths & Bates, 115 Nassaust.

Music—Oliver Ditson. Boston, has just published two new and beautiful pieces, viz., "Meet by the Running Brook," a duet; and "Moonlight Hours," a quartette, the poetry and music by J. ts. Ulark, a young poet and com-poser of music, and the author of quite a number of ex-ceedingly sweet and popular pieces.



Inventors, and Manufacturers THE SCIENTIFIC AMERICAN.

ELEVENTH YEAR!

The ELEVENTH VOLUME of the SCIENTIFIC AMERICAN commences September 16th next. It is an ILLUSTRATED PERIODICAL,-devoted chiefly to the promulgation of information relating to the various Mechanic and Chemic Art.s, Industrial Manufactures, Agriculture, Patents, Inventions, Engineering, Millwork, and all interests which the light of PRACTICAL SCIENCE

Its general contents embrace notices of the LATEST and BEST Scientific, Mechanical, Chemical, and AGRICULTURAL DISCOVERIES-with Editorial comments explaining their application; notices of NEW PRO-CESSES in all branches of Manufactures; PRACTICAL HINTS on Machinery: information as to STEAM, and all processes to which it is applicable; also Mining, Mill-writing, Dueing, and all arts involving CHEMICAL SCI-ENCE; Engineering, Architecture. Comprehensive Scientific Momoranda, Proceedings of Scientific Bodies, Ac counts of Erhibitions.-together with news and informa tion upon THOUSANDS OF OTHER SUBJECTS.

REPORTS OF U. S. PATENTS granted are also published every week, including Official Copies of all the PATENT CLAIMS. These Claims are published in the Scientific American in advance of all other pa-

Mechanics, Inventors, Engineers, Chemists, Manufacturers, Agriculturists, and People in ever hfe, will find the Scientific American to be of great value in their respective callings

week; every number contains Eight Large Quarto Pages, forming annually a complete and splendid volume illustrated with SEVERAL HUNDRED ORIGINAL ENGRAVINGS.

TERMS! TERMS!!! TERMS!!!

One Copy for One Year, One Copy for Six Months, Five Copies for Six Months, Ten Copies for Six Months. -Ten Copies for Twelve Months, Fifteen Copies for Twelve Months, -822 Twenty Copies for Twelve Months,

Southern, Western, and Canada Money taken par for subscriptions, or Post Office Stamps taken at their par value. Letters should be directed (invariably post

128 Fult on street, New York.