FOR SALE.—A STATE RIGHT IN McDONOUGH'S CALORIC ENGINE, for pumping, driving machinery, &c.. L CALORIC ENGINE, for pumping, driving machinery, &c. covered by two patents, and now in general use; pay a profit of 100 per cent; cost nothing for repairs. Apply to SNYDER & WALTER, 223 Broadway, New York.

WANTED.—THE ADDRESS OF ROBERT A. BETTS, of New York, Patentee of Boxes. Send address to H. EVERETT, Philadelphia. 25 2*

ORDNANCE OFFICE,

RDNANCE OFFICE,

WASHINGTON, D. C., May 25, 1864.

Sealed Proposals will be received at this office until Tuesday, the 14th day of June, 1864, for Sinch Columbiad Shot and Scinch Mortar Shell, to be delivered in the following quantities, at the undernamed arsenals, viz:—

S-NGH COLUMBIAD SHOT.

At the Watertown Arsenal, Massachusetts, 4,000.

At the Watervilet Arsenal, Pittsburgh, 4,000.

At the New York Arsenal, Pittsburgh, 4,000.

At the St. Louis Arsenal, Pittsburgh, 4,000.

At the New York Arsenal, Moscort, 2,000.

ATHE STELL.

At the New York Arsenal, Mow York, 5,000.

These projectiles are to be made of the kind of metal, and inspected after the rules laid down in the Ordinance Manual; the tensile strength of the iron for columbad shot to be not less than 25,000 lbs. per square inch. Drawings can be seen at any of the United States Arsenals. The projectiles are to be inspected at the foundry when cast, and are to be delivered at the Arsenals free of charge for transportation or handling.

Deliveries must be made at the rate of not less than one-tenth

on or handling.

Deliveries must be made at the rate of not less than one-tenth peliveries must be made at the rate of not less than one-tenth peliveries must be made at the rate of not less than one-tenth very to be made on the 29th day of June, 1804.

Failure to make deliveries at a specified time will subject the conractor to a forfeiture of the number he may fail to deliver at that

time.

Separate proposals must be made for the shot and shell.

Bidders will state explicitly the Arsenal, or Arsenals, where they
propose to deliver, and the number of projectiles they propose to de
liver at each place, if for more than one.

No bids will be considered from parties other than regular founders, or proprieturs of works who are known by this Department to
be capable of executing the work proposed for. Should any party
obtaining a contract offer shot or shell other than those cast in his
own foundry, they will be rejected, and the contract rendered null
and yold.

own foundry, they will be rejected, and the contract rendered numand void.

Bidders will enclose with their bids the written acknowledgments of their sureties over their own signatures.

Each party obtaining a contract will be obliged to enter into bond with approved streeties for its faithful execution.

Upon the award being made, successful bidders will benotified, and furnished with forms of contract and bonds.

The Department reserves the right to relect any or all bids if not deemed sa isfactory.

Proposals will be addressed to "Brigadier-General George D. Ramsay, Chief of Ordnance, Washington, D. C.," and endorsed "Proposals for Sainch Mortar Shell."

GEORGE D. RAMSAY,

Brigadier-General, Chief of Ordnance.

ARMY CLOTHING AND EQUIPAGE OFFICE, Cincinnati, Ohio, May 26, 1864. }

PROPOSALS ARE INVITED BY THE UNDERSIGNED until Monday, June 18th, 1864, at 2 o'clock P. M., for furnishing this Department (by contract) with—
Army Blankets, wool, gray (with the letters U. S. in black, 4 inches long, in the center), to be 7 feet long and 5 feet 6 inches wide, to weigh 5 pounds each, of domestic manufacture.
To be delivered free of charge, at the U. S. Inspection Warehouse, in this city, in good new packages, with the name of the party furnishing, the kind and quantity of goods distinctly marked on each article and package.
Parties offering goods, must distinctly state in their bids the quantity they propose to furnish, the price, and time of delivery. Sample swhen su bmitted, must be marked and numbered to correspond with the proposal, and the parties thereto must guarantee that the goods shall be, in every respect, equal to Army Standard, otherwise the proposal will not be considered.

therwise the proposal will not be considered.

A guaranty signed by two responsible persons, must accompany ach bid guaranteeing that the bidder will supply the articles awarded o him under his proposal.

Bids will be opened on Monday, June 13th, 1864, at 2 o'clock P. M., this office, and bidders are requested to be present.

Awards will be made on Tuesday, June 14th, 1864.

Bonds will be required that the contract will be faithfully fulfilled. Telegrams relating to proposals will not be noticed.

Blank forms of proposals, contracts, and bonds may be obtained this office.

office. ight to reject any bid deemed unreasonable is reserved. rder of Col. Thos. Swords, A. Q. M. G. C. W. MOULTON, Captain and A. Q. M.

PATENTS! !-VALUABLE ENGLISH AND AMERICAN Patents introduced, manufactured, or sold on commission. Conignments respectfully solicited. Address SNYDER & WALTER. 229 Broadway, New York.
REFERENCES.-'We authorize Snyder & Walter to refer to us." Sheppard, Seward & Co., 214 Pearlstreet; C. H. Voorhees, Banker, Sheine street; John McKowan, Importer, 55 Maiden Lane; J. Wilmot, 2 Bowling Green; H. D. Smith, Chemical Bank; J. W. Kirby, Metropolitan Bank; H. S. Arthur, Eag., British and American Exchange Brothar's Company, 63 Wall street. Refer also, by permission, to B. H. Taylor, 8 Pine street; D. W. Brown, Esq., 117 Maiden Lane; and Wm. Elting, 67 Liberty street, New York.

M ECHANICAL AND OUT-DOOR PHOTOGRAPHY.—
GEO. G. ROCKWOOD. Photographer, 839 Broadway, New
York, will, during the Summer months, give his personal attention
to Photographing Locomotives, Machinery of all kinds, in shops if
necessary, and to taking all kinds of out and In-door views, in any
part of the country. Refers to W. G. Hamilton, Jersey City Locomotive Works; B. J. Burnett and C. Holmes, of the Novelty Works;
J. M. Toucey, Hudson River Railroad; and others.

Plans copied to a scale.

24 4*

DERSONAL IDENTITIES.—IS IT "I?" OR WHO possesses me?—Two lives in one—Revisiting old Scenes—Physiological Changes—On Aliases—Changelings—Somebody Else—Don't be too supe—The Three Johns—
THE SCIENCE OF FORCES—Ori in of Vegetation—A Plant Without Seed—How Animals are Made—Terrestrial Phenomena—Combustion—Atoms, Water, Iron—Magnetism—What Mind is made 1—THE BREATH OF LIFE.

HEADS OF MEN AND WOMAN, Wherein They Differ—Non-Resistance—In Answers to Correspondents—We have the Law of Proportion—Right Age to Marry—Physical Changes—Noses, Hair and Eyes—Stammering—Chess, Checkers—Language—Tobacco—Lady Physicians—Bar-room Phrenologists—Modern Miracles—Hazel Eyes—What shall Fug Noses do? etc. In JUNE NO. FRIENDLOGICAL JOURNAL. Only 15 cents. Address FOWLER & WEILES, 339 Broadway, N. Y.

A LCOTT'S CONCENTRIC LATHES—FOR BROOM,
Boe, and Rake Handles, Chair Rounds, &c.—Price \$25; and all
other kinds of Wood-working Machinery, for sale by S. C. HILLS, No.
12 Plattstreet, New York.

GALVANIZED IRON.—GALVANIZING DONE WITH despatch, and castings furnished if desired, either Mellowle or Gray iron. Address, WILCOX & HALL, Middletown, Conn. 18 12eow*

TOR SALE.—TWO SECOND-HAND STEAM ENdines, mearly as good as new. Balance wheels, shafts, pump,
ac., all complete. One of 25 horse-power, and one of 12 horse-power.
One new, highly finished, 2½ horse-pnine, has never been user.
One pair of hydraulic piess, pumps as good as new. Will be sold very low. Address J. W. MOUNI, Medina, Orleans county, N. Y.
23 4*cow.

CROLL CHUCKS MANUFACTURED BY A. F. CUSHMAN, Hartford, Conn., and for sale by all Machinery Dealers. List Prices, 12 inches diameter, \$25; 9 inches, \$20; 6 inches, \$16; 4 inches, \$10; 3 inches, \$10; 2 inches, \$20; 6 ear.

THE CHEAPEST MODE OF INTRODUCING INVENTIONS.

INVENTORS AND CONSTRUCTORS OF NEW AND useful Contrivances or Machines, of whatever kind, can have their inventions illustrated and described in the columns of the SCIEN-TIFIC AMERICAN on payment of a reasonable charge for the en-

No charge is made for the publication, and the cuts are furnished the party for whom they are executed as soon as they have en used. We wish it understood, however, that no second-hand or poor engravings, such as patentees often get executed by inexperienced artists for printing circulars and handbills from, can be admitted into these pages. We also reserve the right to accept or such subjects as are presented for publication. And it is not essive to receive orders for engraving and publishing any but good Inventions or Machines, and such as do not meet our approba tion in this respect, we shall decline to publish.

For further particulars address—

MUNN & CO.

Publish (150f the SCIENTIFIC AMERICAN,
No. 37 Park Row, New York City.

A GENTS WANTED.—TO SELL SEWING MACHINES and other useful articles. Machine has an established reputa-tion, and is the cheapest and most practical one in the market. For, full particulars address Franklin Sewing Machine Co., Boston, Mass 20 10*

THE COLD-IRON BAR CUTTERS ARE INVALU ABLE in Machine Shops. They will cut off four inch, round o square bars. For circular or machines address CRESSON & HUB BARD, 1,509 Fennsylvan ias avenue, Philadelphia.

PORTABLE STEAM ENGINES—COMBINING THE maximum of efficiency, durability and economy with the minimum of weight and price.

They are widely and favorably known, more than 300 being in use. All warrance satisfactory or no sale. Descriptive circulars sent on application. Address J.C. HOADLEY & CO. Lawrence, Mass.

HAMMERED AND ROLLED CAST STEEL

POR TOOLS, DRILLS, DIES, SPRINGS, CARBINES. L' also steel forged to any required shape, by the MONTAUK IRON AND STEEL CO. Office, 16 Beekman Street, New York.

CIVIL AND MECHA ICAL ENGINEERING.—F. W. EVANS, Ancien Eleve de PEcole Imperial Centrale des Arts et Manufactures, de Paris, gives particular attention to the construction of Iron Roofs, and Stone, Iron and Wooden Bridges. 103 State street, Boston, Mass.

NITROUS OXIDE, OXYGEN, &c., MADE PURE BY our improved apparatus. Pure Nitrate Ammonia and Chemicals. Chemical Apparatus. A. W. SPRAGUE, 89 Washington street, Boston.

THE "KING MICROSCOPE."—DOUBLE LENS.—
Prof. Horsford, of Harvard University, says:—"It works very
well, and is got up very neatly." It magnifies 25 diameters. Price 75
cents. Also, "THE BOWEN MICROSCOPE" for 35 cents, or four for;\$1.
One "Kin" and one "Bowen" Microscope for \$1. All mailed free
of postage. Address F. D. BOWEN, Box 220, Boston, Mass. 25 4*

MERICAN MANUFACTURES.

A BLENOAR MARNOTAGE AND AND AMERICAN MERICAN MARNOTAGE AND AMERICAN MARNOTAGE AND AMERICAN AM

MECHANICAL DRAWINGS NEATLY EXECUTED at 406 Walnut street, Philadelphia. 228*

NGINEERING, CIVIL AND MILITARY; CHEMIS-1 TRY, Metallurgy, Assaying, &c., at Union College, Schenectady, Y. For Circular address Registrar.

NVENTORS' NAME-PLATES.—NEW STYLES.— Bronze, Copper, and Silvered Name-plates, made to order be SMITH & BUTLER, Ornamental Electrotypers, No. 449 Broom street, New York.

50 ENGINEERS AND MACHINISTS WITH A LIT-TLE preparation are guaranteed positions for Engineers in North 10th street, Philadelphia, Pa. with a stamp, J. HARRIS, 355 North 10th street, Philadelphia, Pa. 2438

FOR SALE.—ONE HUGHES' PATENT ATMOSPHER-IC Trip Hammer. New, in good order, and very cheap. It is run by an 8-inch belt, and can be made to strike any weight of blow between 5 lbs. and 30,000 lbs. Enquire of D. A. MORRIS, Rockaway, N. I.

RARE CHANCE FOR PROFIT.—THE SUBSCRIBER offers for sale an article just patented, of great util can be readily made in immense quantities, without exmachinery, and which will command an almost unlimited large margin of profit. For further particulars address, wences, WM. FREEMAN, New Haven, Conn.

OIL PRESSES FOR SALE.—FOUR SETS OF HORIzontal Oil Presses, cylinders copper ined, of 8 bags each, complete with pumps, driving pullers, nonater-shafts and connecting rods; also the hair squeezers; all in good order, having been only one year in use; also four sets of heating tables for above. Two sets of edge runners, stones of granite 5 feet diameter and 12-inch face, with bed-stone, and curbs, upright shafts, driving wheels, scrapers, and counter-shafts; also two sets of seed rolls of 4 rolls each. This machinery is all in good order and offers an opportunity of immediately fitting up an Oil Milm with all its connections seldom to be met with. The machinery will be offered a bargain to any one desirous of purchasing. Apply to the Atlantic Steam Engine Works, corner of Water and Adams street, Brooklyn, N. Y. 23 4*

RAFTING INSTRUMENTS FOR ENGINEERS, SURveyors, Architects, Machinists, and Schools, Engineers' and Surveyors' transits, levels, compasses, and chains, Chesterman's Metallic and Steel Tape-measures, for sale, wholesale and retail, by JAMES W. QUEEN & CO., 924 Chestnut street, Philadelphia. Priced and illustrated catalogues gratis

A MESSIEURS LES INVENTEURS.—AVIS IMPORT ANT Les inventeurs non familiers avec la langue Anglaise, e qui, référeraient nous communiquer leurs inventions en Français peuvent nous addresser dans leur langue natale. Envoyez nous un lessin et une description concise pour notre examen. Toutes com-nunications seront reques en confidence.

MUNN & CO.,

Scieutific American office, No. 37 Park I. w New York

VALUABLE WORK FOR INVENTORS PATENTEES AND MANUFACTURERS.

The publishers of the Scientific American have just prepared with much care, a pamphlet of information about Patents and the Patent Laws, which ought to be in the hands of every inventor and patentee, and also of institutional mentions. The character of this useful work will be better tudents boud after reading the following synopsis of its contents:—

The complete Patent Law Amendment Act of 1861—Practical Instructions to Inventors, how to obtain Letters Patent, also about Models—Designs—Cavetas—Trade-marks—Assignments—Revenue Tax—Extensions—Interferences—Infringements—Appeals—Re-issues of Defective Patents—Validity of Patents—Abandomment of Inventions—Best Mode of Introducing them—Importance of the Specification—Who are entitled to Patents—What will prevent the granting of a Patent Fees; also a variety of miscellaneous items on patent law questions.

tions.

It has been the design of the publishers to not only furnish, in convenient form for preservation, a synopsis of he PATENT LAW and PRACTICE, but to answer a great variety of questions which have been put to them from time to time during their practice of upwards of secenteen years, which replies are not access le in any other form. The publishers will promptly forward the pamphlet by mail, on receipt of six cents in postage stamps.

Address MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, NO 37 Park Row New York.

RON PLANERS, ENGINE LATHES, DRILLS AND L other machinists' tools, of superior quality, on hand and finish-ing, for sale low. For description and price address NEW BAVEN MANUFACTURING COMPARY, New Haven, Conn.

OIL! OIL! OIL

For Railroads, Steamers, and for machinery and Burning
PEASE'S Improved Engine and Signal Oil, Indorsed and recom
mended by the his est authority in the United States. This Oil
possesses qualities wally essential for lubricating and burning, and
found in no other oil. It is offered to the public upon the most reliable thorough and practical test. Our most skillful engineers and
machinists pronounce it superior to and chaper than any other, and
the only oil that is in all cases reliable and will not gum. The
"selectific American," after several tests, pronounces it "superior
to any other they have ever used for machinics." For sale only by
the Inventor and Manufacturer, F. S. PEASE, No. 61 Main street,
Buffalo, N. P.—Reliable orders filled for any part of the Univentor.

Y. liable orders filled for any part of the United States and 14 12*

NERVOUS DISEASES AND PHYSICAL DEBILITY, arising from Specific causes in both sexes—new and reliable treatment, in Reports of the Howard Association—sent in sealed letter envelopes, free of charge. Address Dr. J. SKILLIN HOUGHTON Howard Association, No. 2 South Ninth street, Philadelphia, Pa. 14 12³

HOLSKE & KNEELAND, MODEL MAKERS. PAT-ENT Office Models, Working Models, and Experimental Ma chinery, made to order at 100 Walker street, between Center and Elm New York. Refer to Munn & Co., Scientific American Office.

CUILD & GARRISON'S CELEBRATED STEAM
Pumps—Adapted to every variety of pumping. The principal styles are the Direct Action Excelsior Steam Fump, the improved Balance Wheel Pump, Duplex Vacuum and Steam Fumps, and the Water Proposed an entirely new invention for pumping large quantities at a light lift. For sale at Nos. 55 and 57 First street, Williams-birgh, and No. 74 Beekman street, New York.

151

GROVER & BAKER'S HIGHEST PREMIUM ELAS-TIC Stitch Sewing Machines, 495 Broadway, New York.

MANUFACTURERS OF STEAM ENGINES, WITH the link motion, variable cut off of the most approved con struction; also Lathes, Mill-gearing, Shafting, Hangers and Machine ry in general. Address M. & T. SA'LLT, New Haven, Conn. 19 20*

UN AND PISTOL SCREWS.—COMSTOCK, LYON & CO., Manufacturers (Office, 74 Beekman street, New York), are always prepared to furnish Gun and Pistol Screws to sample Screws to the Let U. S. Musket, Sewing Machine Screws, and Michal Screws generally, of the best quality, at short notice.

REYNOLDS' TURBINE WATER WHEELS.—COM-PETENT men are employed to measure streams, make plans, and put in flumes, wheels, and gearing. TALLOOT & UNDERHILL, No. 178 Broadway, New York.

HIMER & MILLER, AGRICULTURAL AND COM-MISSION Dealers, Hillsboro, Ill., give personal attention to the introduction and sale of all kinds of Machinery. Business solicited and references given.

W. CLEVELAND HICKS, CIVIL AND MECHANI CAL Engineer, 480 Broadway, New York.

JAMES HORNER & CO., MANUFACTURERS OF CAST
Steel and Files. Orders solicited for all kinds, shapes and sizes,
Office and Warehouse, 28 Chif street, New York.
7 5m.

THEYSON & OGG. 39 GREENE STREET, NEAR Grand street, Machinists, Brass Finishers, and Model Makers Experimental Machinery, Indicators, Registers, and Steam ogges of any kind accurately and promptly made.

PAGE'S PATENTED LIME KILN WILL BURN 300 bushels lime per day, with three cords wood or 1½ tun coal, hard or soft. Address C. D. PAGE, Cleveland, Ohio.

 $E_{\bullet}^{\rm H.~BELLOWS,~MANUFACTURER~OF~PORTABLE}_{\rm 17~10^{\circ}}$ and Stationary Steam Engines, Worcester, Mass. $^{\rm 17~10^{\circ}}$

TEAM ENGINES AND BOILERS OF EVERY DESCRIPTION; Shafting; Pulleys and Machinists' Tools, for Sale by C. GAY, 29 Doane street, Boston, Mass.

WATER WHEELS.—OVER 900 OF WARREN'S
Woolen, Grist, and Saw Mills, &c. For circular, address A. WARREN'S
Agent, American Water Wheel Company, 31 Exchange street, Boston
Mass.

Bir Beachtung für beitifche Erfinder.
Die Unterzeichnten baben eine Anleitung, die Erfindern tas Berhalen anzibe, um fich ihre Datent zu fichen, herausgegeben, um verabfolsen seits an trefelben.
Erfütter, welche nicht mit ber englischen Sprache betannt find, tannen ihre Mitcheliungen in ber beutchen Sprache moden. Stigen von Erfätungen mit furzen, beurlich geschriebenen Beihreibungen beliebe man zu aberessten an

Defeibit ift ex haben :

Die Patent-Dejete ber Bereinigien Staaten.

uedel den fleggein und der Gelchäftere den geren von flese und Anleitungen für den Gefähder, um ihr Valente au fichere, in den Ber. Se. fervonl als in Europes. derner Ausgrage aus den Patent-Gefehen fremder Seinder und derenficht Vandfischlage; etenfalls nuslie Misse fie Argung auf der Seinder von der Seinder und der Seinder von der Verlage von der