the bottom of the cartridge answers the very | them. the experiment.

"J. A. R., of Pa."—Do not know of a reliable work upon the subject referred to in your communication of the 5th inst.

"N. F. E., of Vt."—We have not been able well or not. We think Mr. J. Robinson of sheets. \$3 received and credited. Lawrence, Mass., has a patent for one.

Upon due consideration we are of the opinion | ing the full particulars. that you cannot obtain a patent for the grate and inclined board, as it appears to be the substitution of one common device for another. It we misunderstand your views you had bettor forward a drawing described by letters of reference. We do not countenance any attempts to infringe a patentee's just rights.

have been overlooked. If you have any information to ask, you are at liberty to do so. No. 2 sent; \$1 received and credited.

"J. F. B., of Louisville."-We are informed by the publisher of "Chapman's Drawing with No. 26 Vol. 6 or March 11 1851. Book," that Part 4 will not be issued untillate in the Spring. We have given you credit for \$1, and will send it as soon as issued. The Camera was shipped on the 11th inst., by Express,—and your name entered for one year's subscription.

"C. S. H., of Pa."-We shall retain your bridle bits until your order—do not know any thing against the A. U., at present, but you may rest assured that if we discover foul play they will hear from us. No. 48 sent.

"J. B. W., of N. C."-We do not think your plan for preventing boiler explosions to be new. By reference to Lyman's Safety Guage you will find that he employs glass tubes in which the mercury rises. It would make no difference whether the tubes were made to convey water or mercury. In this case they are employed for the same purpose.

"E. M., of Ind."-You can obtain a patent just as soon by staying at home, and it would save you much expense. By sending a drawing and full description, we can advise you in regard to its novelty \$2 received.

"A. P. K., of R. I."-Neither the top nor botton can be said to move one point faster than the other, the whole circumferance moves in unison.

"E. V., of Geo."-Minifies Drawing Book was forwarded on the 12th inst. The sliding scale is worth \$2.

"F. S. T., of N. H."-All that you need do nowin order to make a fortune out of your invention, is to get the machine before the public. An engraving in the Sci. Am., would reach 25,000 at least, half of whom the invention would particularly interest. An engraving in one paper, to throw suspicions on the acwe will prepare and publish for the paltry sum | cused and then on the next day, there is sure of \$8, and we will warrant it to bring you 50 to be a paragraph of the opposite tendency, in persons at least, who will willingly pay you a another paper. reasonable sum for all the the teritory you have to dispose of.

"G. Vt., of N. Y."-It would be a long job to give you a full description of the various wind mills in use. Should be glad to do so but cannot spare the time.

"H. M., of N. Y."-By reference to the "M. R., of Maine."-Wait till our history last number of the Sci. Am., you will perceive of propellers is published, and you will see that that Mr. Jones was answered, in regard to his your plan is not entirely new. \$2 received. churn. You ask information and charge us New York City,

"W. F. of Boston."—The air chamber of for the trouble of giving it—this is not fair by Boston. "W. F., of Boston."—The air chamber of for the trouble of giving it—this is not fair by Boston. Humanophila. the Rifle, as you remark, allowed more time; any means. Our correspondents are requested; for the complete ignition of the powder, but to pay postage on all communications addressalso for the purpose stated, as the priming in ed to this office, or no attention can be paid to

purpose of the globe you speak of, it being "Curiosity."—According to Dr. Dick, the converted in to a gas, very expansive, and the ancient Greeks and Romans were ignorant of great heat of it rarifies the air in the chamber | many articles in diet which we now hold in to perform the office stated. The reason of the much esteem. They used no alcoholic liquor, cannon ball rising after leaving the gun, is not nor coffee, tea, chocolate, sugar, or even butowing to the cause you state. The reason is, | ter, many of the tropical spices were also unthat the range of vision must be elevated ac- known to them. They were fond of the flesh cording to the distance from the mark, al- of wild asses, puppies, mice, foxes, bears, and though the cannon and mark, may be on the lizards, using asafætida and rue, for seasoning. same level; stand by thesea shore and try | It is not fashionable to chew, but to eschew such articles at the present day.

"W. H. L., of Miss."—Such a fair as you refer to is to be held in London next year—but the minutia of arrangements have not yet been concluded. We shall notice it in due time. You cannot obtain the last half of vol. 4, in sheets. \$3 received and credited.

'J. E. B., of N. C.''—We have handed your letter to several saw makers, and they seem not to comprehend its meaning. Youhad Salem Mass. to learnwhether the "Pegging Machines" work You cannot obtain the last half of vol. 4, in

"A. G., of Ind."-We do not see how such your letter to several saw makers, and they a claim could have been granted, as the prin- seem not to comprehend its meaning. Youhad ciple appears common, and in extensive use. better address, R. Hoe & Co., of this city, giv-

> "A. J., of N. Y."-A machine has been in. vented in England, to register the speed of railway trains. It operates by means of an eccentric, geared to the axis of the cars. Your plan may be very different from this.

"W. C. S., of N. Y."-To render your paper hangings washable, give the paper two or "J. S. P., of Geo."-Your request must three coats of size, and then, varnish it over with good spirit varnish, and you can wash it with soap suds without injuring the colors in the least.

"J. D., of Vt."-Your subscription expires

O. W. S., of Conn., A. L., of Me., T. J. of Mass., and H. S. T., of Mass.-

The specifications and drawings of your several inventions have been forwarded to the Patent Office since our last issue.

much trouble, and we think it sufficiently A. O., of N. Y., \$30; C. N. S., of Va., \$47; safest means for securing their rights. MUNN & CO. and W. F. P., of Mass., \$30.

> Cultivation of the Castor Bean in Ohio. A company of manufactures have recently put up a castor oil mill in Cincinnati, Ohio, and in order to encourage the growth of the castor bean in that State, propose to furnish all farmers wishing to cultivate them with seed, and contract with them for all they raise, at the market price. The present price is \$2 a bushel. The bean is planted and cultivated the same as Indian corn, and will produce from 30 to 50 bushels an acre. The market is now supplied to a considerable extent from Illinois.

## Arctic Bears.

Sir James Ross narrates seme remarkable incidents connected with his recent voyage to the Arctic regions. A bear walked into Captain Ross's party, and surveyed them with cool inquisitiveness; guns were levelled, and the bear was wounded in the head; he scratched his ear, and walked off with an air of superior contempt. Another bear was seen to slide on his haunches down a cliff of seven hundred feet high, steadying himself with his fore paws most "judgmatically," as the sailors

The Parkman murder in Boston is a singular affair, and bears about it some mysterious connection, for one day a paragraph appears

Notice.
Whenever any of our friends order numbers they have missed-we shall always send them, if we have them on hand. We make this statement to save much time and trouble, to which we are subjec-PATENTEES.

red in replying, when the numbers called for cannot office on F street, opposite Patent Office, Washington D. C. 120 tf be supplied.

# ADVERTISEMENTS.

GENERAL AGENTS GENERAL AGENTS,
1 - GEO, DEXTER & BRO.
2 - MESSIS. HOTCHKISS & CO.
3 - STOKES & BROTHER.
4., - ROWE & CO.
5 - R. MORRIS & CO.
6 - W. H. WELD & CO.
6 - LOCAL AGENTS.
6 - COOK.
6 Providence, R. Jackson, Miss. Southern, Albany,
Andover, Mass.
Baltimore Md.
Bridgeport, Ct.
Cabotville, Mass.
Cincilinati Ohio,
Concord, N. H. PETER COOK PETER COOR.

E. A. RUSSELL.
S. SANDS.
SANDFORD & CORNWALL
E. F. BROWN. POST & CO.
RUFUS MERRELL.
J. R. TRIMBLY.
D. L. NORRIS. Dansville, N. Dover, N. H. Fall River, Ma Geneva, N. Y. Greene, N. Y. Pope & Chace. J. Gillespie. J. W. Orton. J. W. ORTON.
E. H. BOWERS.
J. W. COPES & CO.
E. G. FULLER.
E. BISHOP.
J. F. REIGART.
J. E. F. MARSH.
WM. WOODWARD.
S. R. TUETS.
N. P. GREENE.
PERCE & PARSONS.
A MCKENZIE Hartford, Ct. Hartford, Ct.
Houston, "Twaas,
Halifax, Nova Scot
Jamestown, N.Y.
Lancaster, Pa.
Lynn, Mass.
Widdletown, Ct.
Milwaukie, Wis.
Nashua, N. H.
New Bedford, Mass.
Nashville, Tenn.
Norwich, Ct. A. McKenzie.
Safford & Parks.
E. Downes. A. WHITE.
L. AGENS.
I. BOULLEMET.
H. DOUGLASS RCE & RACKLYFT. D. M. DEWEY.
W. WHITE, JUN.
M. RESSEY.
A. HAWLEY. Salem, Mass. -Savannah Geo. Syracuse, N. Y. Taunton, Mass. Troy, N. Y. Utica, N. Y. Vickspurg, Miss. Warren, Ohio, L CHANDLER L. CHANDLER.
JOHN CARRUTHERS.
W. L. PALMER.
W. P. SEAVER.
A. SMITH.
G. H. BEEELLY.

#### A LIST OF VALUABLE SCIENTIFIC AND MECHANICAL BOOKS,

J. B. HAYES.
C. J. VAN GORDER.
J. M. SHUMWAY.

	,
	FOR SALE AT THE SCIENTIFIC AMERICAN OFFICE,
	Ranlett's Architecture, 2 Vols., bound, - \$12,00
	Ewbank's Hydraulies and Mechanics, - 2,50
	Gilroy's Art of Weaving, - 5,00
	Gilroy's Art of Calico Printing 5,00
	"Scientific American," Voi 4, bound, 2,75
	Minifie's Drawing Book, 3.00
	American Steam Engine, Plate and Book of De-
	scription 3,00
	Scribner's Mechanics, Tuck, Gilt, - 1,50
į	Treatise on Marine and Naval Architecture,—
	published monthly, each No., ,75
	Leonard's Mechanical Principia 1.50
	Mahan's Civil Engineering, 3,00
	Morfitt's Chemical Manipulations, - 2,50
	l

### Patent Office.

128 FULTON ST.

OTICE TO INVENTORS.—Inventors and others requiring protection. others requiring protection by United States Letters Patent, are informed that all business rela "A. S., of N. Y."—We are so much huried with business that we cannot undertake your case. You had better accept of the claim suggested by the Patent Office, it will save you T. & Co., of N. Y., \$40; S. H. S., of O., \$30; much trouble, and we think it sufficiently? A. O., of N. Y. \$30; C. N. S., of Va., \$47; safest means for securing that all business relating to the procuration of letters Patent, are informed that all business relating to the procuration of light cases. When the procuration of light cases, is transacted at the Scientific American Office, with the utmost economy and desputch. Drawings of all kinds executed on the most reasonable terms are informed that all business relating to the procuration of letters patent, or fling control of the procuration of letters patent, or fling control of the procuration of litters patent, or fling to the procuration of letters patent, or fling control of light cont

128 Fulton street, New York

TO RAILROAD COMPANIES, ETC. --The undersigned has at last succeeded in constructing and securing by letters patent, a Spring Pad-lock which is secure, and cannot be knocked open with a stick, like other Spring locks, and therefore particularly usefulfor locking Cars, and Switches, etc. Made of different sizes to suit the purchaser.

Companies that are in want of a good Pad-lock, can have open samples sent them that they may examine and judge forthemselves, by sending their address to C. LIEBRICH, 18 10\*

46 South 5th St., Philadelphia.

PUMPS, FIRE ENGINES, FOUNTAINS, C. Double Acting lift and force pumps, cistern and well pumps, ship and fire engines, (stationary or moveable) cast iron fountains, copper rivetted hose, garden engines, etc. The force pumps, from their simple construction, are well calcalated for factories, mines, railroad water stations, tan works, breweries, family purposes, steamboats, ships, sugar plantations, etc. I also manufacture to order, village and factory fire engines, with a double acting lift and worked by a few men. Prices from \$100 to \$350.

Cistern and well pumps are such as will not freeze if out doors. They can be put into wells from 30 to 40 feet deep. Purchasers are respectfully invited to call or any communication by mail will receive immediate attention.

31 Fulton st., N.Y.

CCENTRIC & CONCENTRIC LATHE.

We have on hand a few of Alcott's celebrates
Eccentric and Concentric Lathes, which the inventor
informs us will execute superior work at the follow-

informs us will execute superior work at the following rates:

Windsor Chairs, Legs and Pillars, 1000 per 11 hours. Rods and Rounds - 2000 " "
Hoe Handles, - 300 " "
Fork Handles, - 500 " "
Also various other work in the same ratio. It will turn smooth over swells or depressions of three-quarters to the inch. The Eccentric Lathe will do work as fast and better than any other machine, and are sold without frames for the low price of \$25-boxed and shipped. Address, (post pa.d) MUNN & CO. At this office,

AP WELDED WROUGHT IRON Tubes, for Tubular Boilers, from 1 1-4 to 7 inches in diameter.—The only Tubes of the same quality and manufacture as those so extensively used in Eugland, Scotland, France, and Germany, for Locomotive, Marine art. other Steam Engine Boilers.

THOMAS PROSSER & SON, Patentees, m1

28 Platt street, New York. AP WELDED WROUGHT IRON Tubes,

Z. C. ROBBINS,

CONSULTING ENGINEER AND COUNSELLOR FOR PATENTEES.

# THE WATER CURE JOURNAL FOR

THE WATER CURE JOURNAL FOR 1850.—The Water-Cure Journal is published monthly, at One Dollar a year, in advance, containing thirty-two large octavo pages, illustrated with engravings exhibiting the Structure and Anatomy of the entire Human Body; with familiar explanations, easily to be understood by all classes.

The Water-Cure Journal, emphatically a Journal of Health, embracing the true principles of Life and Longevity, has now been before the public several years. And they have expressed their approval of it by giving it a monthly circulation of upwards of Fitteen Thousand Copies. This Journal is edited by the leading Hydropathic practicioners aided by numerous able contributors in various parts of our own and other countries. FOWLER & WELLS, publishers,—Clinton Hall, 129 and 131 Nassau-st., New York.

Sample numbers Sent Gratis.

Sample numbers Sent Gratis. The PHRENOLOGICAL JOURNAL.--

This Journal is a monthly publication, containing thirty-six octavo pages, at One Dollar a year, in advance. To reform and perfect ourselves and our race is the most exalted of all works. To do this we must understand the human constitution. This, Phrenology, Physiology, and Vital Magnetism embrace, and hence fully expound all the laws of our being, conditions of happiness, and causes of missery. Phrenology-Each number will contain either the analysis and location of some phrenological faculty, illustrated by an engraving, or an article on their combinations; also the organization and character of some distinguished personage, accompaised by a likeness, together with frequent articles on Physiognomy. Published by FOWLERS & WELLS.

Clinton Hall, 129 and 131 Nassau-st., N. Y. 11 2m

AW'S NEW PLANING MACHINE—

For boards and plank, is now in operation in this city—planing, tonguing and grooving at the same time, with rapidity and beauty. It is believed to be superior to any other machine, as it will do the work of two or three rotary machines, and for all Southern, and the majority of Northern lumber, the execution is much better.

Machines, with rights for States, or Conceins, can be had by applying to the subscriber, at 216 Pearlstreet, or at Collyer & Dugane's mill, foot of West Fourteenth street, where the machine is at work.

2 tf H. LAW.

BRITISH PATENTS.—Messrs. Robertson & Co., Patent Solicitors, (of which firm Mr. J. C. Robertson, the Editor of the Me hanics Magazine from its commencement in 1833, is principal partner,) undertake THE PROCURATION OF PATENTS, for England, Scotland, Ireland, and all other European Countries, and the transaction, generally, of all business relating to patents.

Countries, and the transaction, seem relating to patents.
Instructions to inventors can be had gratis, on application to Mr. THOMAS PROSSER, 28 Platt street,
New York; as also the necessary forms of Petition and Declaration for British Patents.

PATENT OFFICE,
m1 tf 166 Fleet street, London.

RUSH'S IMPROVED DOUBLE ACTber is now manufacturing and has constantly on hand, an extensive assortment of Lift and Porce hand, an extensive and the mould call the attention of ownprays of factories, breweries, ships, steamships, or for
railroad stations and farmers, as one of the most powerful pumps ever yet invented. Persons in want of a
good article (the price is within the reach of all) are
invited to call on the subscriber at his manufactory.

10 10\*

J. A. BRUSH, 83 Pike Slip, N. Y.

FOREIGN PATENTS.—PATENTS procured in Great Britain and her colonies, also France in Great Britan and her colonies, also Franced
Belgium, Holland, &c., &c., with certainty and dispatch through special and responsible agents appointed, by, and connected only with this establishment—
Pamphlets containing a synopsis of Foreign Patent laws, and information can be had gratis on application
JOSEPH P. PIRSSON, Civil Engineer,
3 tf. Office 5 Wall street, New York.

TO IRON FOUNDERS.—Fine Ground Sea Coal, an approved article to make the sand come off the Castings easily; fine bolted Charcoal Blacking; Lehigh fine Dust, and Soapstone Dust forfacing stove Plates, &c. &c.; also, Black Lead Dust and Fire Clay, for sale in Barrels, by GEORGE O. ROBERT 1 SON, 303 West 17th street, or 4 Liberty Place, between Liberty st. and Maiden Lane, N.Y. 914\*

DEE'S AMERICAN CAST STEEL

A. Works, (at the foot of 24th st., E. River, N. Y.)
The above works are nowin successful operation, and
the proprietor would respectfully call the attention of
machinists and all consumers of the atteicle to an examination of his Steel, which he is warranted by the
testimony of the principal machinists and edge tool
makers of this city, in recommending as fully equalin
overy respect to any ever used in this country.
A til assortment of the different sizes constantly
on hand, which the public are respectfully invited to
call and examine at the office of DANIEL ADEE,
51 6ms

107 Fulton street, New York.

TEAM ENGINES, second hand, one each 11-2
and 5 horse, on hand, and orders taken for any size.
Lathes new 5, 7, 8, 10, and 12 feet, the 8 feet lathe is a beautiful article, has back and screw gear, drill chuck, centre and followrest, overhead revering pullies, swings 19 inches and price only \$200.
Shingle Machines, Johnson's superior will saw 6 to \$600 per day. For the above or any other kind of machinery. Application must be post paid, to
SAMUEL C. HILLS,
Machinery Agrent, 43 Fulton street,

Machinery Agent, 43 Fulton street,

CAMERA LUCIDA. -- Notwithstandingthe de-TARBERA LUCIDA.—Notwithstanding the demand for these useful instruments has been so great, we are yet able to supply orders for them.

Every draughtsman and every person that desires to foster a taste for the beautiful art of sketching should surely have one.

Just received, a new and more beautiful article than has before been offered for sale in this country.

Address MUNN & CO., at this office. Price \$6, boxed and shipped where directed.

PREMIUM STOVE POLISH, &c.-Quar-

terman's Chemical Oil Stove Polish, American Atomic Drier, Electro Chemical graining colors, and gold size. The stove polish is put up in tin boxes of 121-2 to 31 1-4 cts. Sold wholesale and retail at 114 Johnst., New York, by

QUARTERMAN & SON,

Painters and Chemiste.

THOMAS E. DANIELS' PLANING MA. CHINES—Manufactured by HOWE, CHENEY & CO., Worcester, Mass. All orders for the above machines executed at short notice and satisfactory

BARLOW & PAYNE, Patent Agents and Consulting Engineers, 39 Chancery Lane London m12 tf Patent Journal Office.