

TO CORRESPONDENTS.

"S. D. B. of N. Y."—Your letter came too late to be answered last week. You cannot obtain a patent for a new application of an old principle. You could for a new combination of machinery by which you used the old principle. \$1, O. K.

"W. T. M. of Chesterfield."—You will receive an answer by mail soon.

"H. L. of Md."—We can't find out. You can learn who holds the rights by dropping a line to Rochester.

"O. L. R. of N. H."—We do not know of any machine such as you describe. We think no notice of such a machine has appeared in our columns.

"N. G. Jr."—Your combination is a little different but of no practical benefit. We do not think it worth patenting.

"J. F. M. of Pa."—Polish your glass with Tripoli. It will take a long rubbing, as the scratches have literally to be ground out.

"T. A. D. of Ind."—There is no doubt but your plan would operate, though the power produced from the wheel would probably be so small as to be of no service. No practical benefit can result from it.

"A. M. W. of Mass."—You are welcome to the papers, which is herewith sent. Hope you will induce some of your friends to subscribe. We should be glad to receive your plan of a rotary engine.

"B. B. of Me."—We are very much obliged for the list of subscribers you have sent. You have our sincere thanks for your exertions. We are glad to know that the engraving pleased you. Mr. A. will see an engraving of a planing machine and description in this paper soon. If he or any one in your part of the country wants one please send them to us. Please say to Mr. S. that the best work on Naval Architecture costs \$35. There is also a good work costing \$4. We can send either of the above if he will enclose the amount to us.

"W. P. E. of Ct."—We do not understand your plan.

"E. M. of Mass."—No one but the original inventor, can obtain a patent for an invention, whether foreign or American. If you make an improvement on a foreign invention, you can obtain a patent for the improvement only. In England any one can obtain a patent for an invention. But in this country the inventor only, receives a patent.

Patent Office Business.

Some of our friends who were promised that their specifications and drawings should be finished and forwarded this week will have to excuse us till the next. We are very sorry that we are not able to fulfil every promise made to them but the illness of our principal Draftsman and a multiplicity of business connected with the "Great Fair" has prevented our usual promptness. They shall receive proper attention next week, however, and we hope never to be obliged to disappoint again or to ask forbearance for not fulfilling our promises.

Reply to J. K. Eldridge.

Mr. A. R. Carter, agent for Blanchard's machine for turning irregular shapes, requests us to say that he shall furnish an article in reply to the one over the signature of J. B. Eldridge as soon as his infringement cases are decided upon, at Philadelphia, and that he will also give many statistics relative to the validity of their claim and the important decisions made in their favor.

Lead Pipes and Water.

Dr. James R. Chilton of this city, says that he tried experiments with Croton water on lead pipes, composition pipes, and lead pipes coated with pure tin after the plan of Mr. Ewbank. The pipes were forty feet in length and were filled with water brought in a cask from the Croton River. The water was displaced from the pipes by admitting fresh supply at intervals of a day or two, for three weeks; and that which escaped was tested each time. The result proved that the water which passed through the lead pipe always contained lead, while that from the pipe made of the alloy of tin and lead, as also that from the pipe coated with tin, both upon the inside and outside, did not contain a particle of

lead, but for the first few days yielded a trace of tin.

It is possible that the water, in passing rapidly through a lead pipe of moderate length, in constant use, may not become so impregnated with lead as to be injurious to health. But there are hundreds of instances where the pipes are conveyed to the second and third stories of houses, where the water is seldom used, but from which the servant may find it convenient to fill a pitcher. The internal use of the water from such situations, is highly injurious, and manifests itself by tremulousness and generally debility of the nervous system.

Increase of American Exports.

A Parliamentary report of exports from the United States to Great Britain for five years, from 1843 to 1847, shows an aggregate increase since 1843, of more than one hundred and fifty per cent. Among the articles enumerated are oil, staves, naval stores, beef, tallow, hides, pork, bacon, lard, cheese, wheat, corn, flour, corn meal, rice, wool and hops. The increase of bacon, lard and cheese is equal to one hundred per cent., of corn more than fifteen million per cent, there having been none exported in 1843, and 15,526,525 bushels in 1847. Thus is the United States pouring her rich harvests into the old world.

Advertisements.

This paper circulates in every State in the Union, and is seen principally by mechanics and manufacturers. Hence it may be considered the best medium of advertising, for those who import or manufacture machinery, mechanics tools, or such wares and materials as are generally used by those classes. The few advertisements in this paper are regarded with much more attention than those in closely printed dailies.

Advertisements are inserted in this paper at the following rates:

One square, of eight lines one insertion,	\$ 50
" " " " two do.,	75
" " " " three do.,	1 00
" " " " one month,	1 25
" " " " three do.,	3 75
" " " " six do.,	7 50
" " " " twelve do.,	16 00

TERMS:—CASH IN ADVANCE.

GENERAL AGENTS

FOR THE SCIENTIFIC AMERICAN.

New York City, - - - GEO. DEXTER.
Boston, - - - MESSRS. HOTCHKISS & Co.
Philadelphia, - - - STOKES & BROTHER.

LOCAL AGENTS.

Albany, - - - PETER COOK.
Andover, Mass., - - - E. A. RUSSELL.
Baltimore, Md., - - - S. SANDS.
Bermuda Islands - - - WASHINGTON & Co.
Bridgeport, Ct., - - - SANFORD & CORNWALL
Cabotville, Mass., - - - E. F. BROWN.
Concord, N. H., - - - RUFUS MERRILL.
Cincinnati, O., - - - STRATTON & BARNARD.
Dover, N. H., - - - D. L. NORRIS.
Fall River, Mass., - - - POPE & CHACE.
Hartford, Ct., - - - E. H. BOWERS.
Houston, Texas, - - - J. W. COFFEY & Co.
Halifax, Nova Scotia, - - - E. G. FULLER.
Jamestown, N. Y., - - - E. BISHOP.
Lynn, Mass., - - - J. E. F. MARSH.
Middletown, Ct., - - - WM. WOODWARD.
Norwich, Ct., - - - SAFFORD & PARKS.
New Haven, Ct., - - - E. DOWNES.
Newburg, N. Y., - - - S. A. WHITE.
Newark, N. J., - - - J. L. AGENS.
Newark, N. J., - - - Robert KASHAW.
New Orleans, La., - - - J. C. MORGAN.
Paterson, N. J., - - - A. H. DOUGLASS.
Providence, R. I., - - - H. & J. S. ROWE.
Rochester, N. Y., - - - D. M. DEWEY.
Springfield, Mass., - - - WM. B. BROCKETT.
Salem, Mass., - - - M. BESSEY.
Saco, Me., - - - L. CHANDLER.
Savannah, Geo., - - - ISAAC CROOKER.
Syracuse, N. Y., - - - JOHN CARUTHERS.
Taunton, Mass., - - - W. L. PALMER.
Vicksburg, Miss., - - - W. P. SEEVER.
Williamsburgh, - - - J. B. MATEY.
Webster, Mass., - - - J. C. GANDER.
Webster, Mass., - - - J. M. SHUMWAY.

CITY CARRIERS.

CLARK SELLECK, SQUIRE SELLECK.

Persons residing in the city or Brooklyn, can have the paper left at their residences regularly, by sending their address to the office, 129 Fulton st., 2d floor

United States Patent Agency.

112 Broadway, N. Y.

MESSRS. LEROW & CO. would inform those interested in Inventions and Patent Rights, that they have opened an Office at 112 Broadway, for the exclusive sale of Patent Rights and Machines, and they would respectfully solicit the Agency of any new Inventions or Machines. As we shall advertise extensively all machines that are consigned to us, this will be a most favorable opportunity for all wishing to bring their invention before the public. Persons at a distance wishing any kind of Machinery, by addressing us by letter, can obtain any information they desire.

LEROW & CO.

JOHN A. LEROW,
CHARLES E. HUTCHINSON
Refer to: John Lorimer Graham, N. Y.; Walworth & Nason, Boston; Lewis Lerow, Boston; Rev. R. W. Cushman, Washington

The Best Patent Agency in the United States.

THE subscribers would respectfully give notice that they still continue to attend to Patent Office business as usual. The long experience they have had in securing patents, together with their unrivalled facilities, enables them to say that THE BEST PATENT AGENCY, in the United States, IS AT THE OFFICE OF THE SCIENTIFIC AMERICAN, New York. It is not necessary, as commonly supposed, for an inventor to make a journey to Washington in person, in order to secure a Patent, as he cannot in any manner hasten the Patent or make his invention more secure. Any business connected with the Patent Office may be done by letter, through the SCIENTIFIC AMERICAN OFFICE, with the same facility and certainty as though the inventor came in person. From a want of knowledge on this point, applicants for patents are often obliged to submit to great vexation, with loss of much money and time. They also frequently fall into the hands of designing persons, and lose their inventions as well as money. Those who wish to take out Patents or enter Caveats, should by all means have the business transacted through the SCIENTIFIC AMERICAN OFFICE, as they may then rely upon its being done in a straight forward and prompt manner, on the very lowest terms. All letters must be Post Paid and directed to MUNN & CO., Publishers of the Scientific American, 129 Fulton street, New York.

The largest, best and cheapest Dictionary in the English language, is confessedly WEBSTER'S,

the entire work, unabridged, in 1 vol. Crown Quarto, 1452 pp. with portrait of the author, revised by Professor Goodrich, of Yale College. Price, \$6.

"The most COMPLETE, ACCURATE, and RELIABLE Dictionary of the Language," is the recent testimony given to this work by many Presidents of Colleges, and other distinguished literary men throughout the country.

Containing three times the amount of matter of any other English Dictionary compiled in this country, or any Abridgment of this work, yet

"Its definitions are models of condensation and purity. The most complete work of the kind that any nation can boast of."—HON. WM. B. CALHOUN.

"We rejoice that it bids fair to become the standard Dictionary to be used by the numerous millions of people who are to inhabit the United States."—Signed by 104 members of Congress.

Published by G. & C. MERRIAM, Springfield, Mass., and for sale by all booksellers. \$23 2m*

To Mill Owners.

HAVILAND & TUTTLE'S Patent Centre Vent Pressure Water Wheel.—These wheels are now in successful operation in many towns in Maine, Massachusetts, and Rhode Island, and are found to surpass in power and facility of adaptation any water wheel now in use. This wheel was awarded the silver medal at the Fair of the American Institute recently held in New York and a diploma at the Mechanics' Fair in Boston.

The wheels are manufactured and for sale by the FULTON IRON FOUNDRY CO., South Boston, Mass.,—where the wheels can be seen and any information concerning them had. Patent Rights for different States, Counties, &c. for sale, as above. \$14 3m*

Those Hats

KNOX of 128 Fulton street, is on hand with his Autumn style of Hats, and as usual furnishes a little prettier shape, made of a little better material and for a much less price than many of his Broadway friends who boast of the superiority of their productions.

The public won't swallow that gammon, gentlemen, and you had better put your prices down to Knox's standard price, before he detracts ALL those regular customers from Broadway into Fulton st. 07

THE WEST STREET FOUNDRY, corner of Beach and West streets, will furnish at the shortest notice, Steam Engines and Boilers in all their varieties, and on the most reasonable terms, together with castings of brass or iron, and machinery in general. Orders attended to with dispatch, and particular attention given to repairing.

JOSEPH E. COFFEE, AGENT.
Steam Boats, Engines, Machinery, &c. bought and sold on commission—apply as above. \$23 3mo

TALBOT'S PATENT BLIND HINGE.

THE undersigned having become interested in the manufacture and sale of the above article, would state that their facilities are such, that they can supply any demand at short notice. This hinge, having stood the test of two years trial, has fully established itself as a useful and important invention, being all that can be desired for blind trimmings, as the blind is managed entirely from the inside of the house without raising the sash,—COMPLETELY locks it, and prevents all unpleasant noise of the blind by wind.

American Window Trimming Company, Taunton, Mass.
Address GEO. GODFREY, Agent A. W. T. Co. \$23 3m

POWER TO LET—RARE CHANCE.

THREE rooms, 40 feet square, one room 60 by 40 feet, 2d floor, power from engine, 25 in. cylinder, 4 1-2 feet stroke. Let together or in parts. Apply at West street Foundry, corner of Beach and West streets, \$23 3m

PECK'S PATENT VISE WITH FOOT LEVER.

THIS Vise is worked entirely by the foot and is admitted by all who have used them to be the best and, strength, saving of time and convenience considered, the cheapest Vise in use. For sale by QUINCY & DELAFIERE, 71 John st. New York; Geo. H. Gray & Co. Boston. Curtis & Hand, Philadelphia; Way & Brothers, Hartford; and by the proprietor, J. S. GRIFFING, 07 2m*, New Haven, Ct.

HOW TO OBTAIN THE PREMIUM.

THE Subscriber would respectfully inform all persons having articles exhibiting at the FAIR, that he is prepared to execute engravings on wood for circulars, &c. at the shortest notice, and on the most reasonable terms.

Particular attention given to engravings of Machinery, Stoves, Buildings, &c.
WARREN C. BUTLER,
58 Fulton street, cor. Cliff. 07

Judson's Stave Dressing Machine.

THIS Machine, on which Letters Patent were granted May 1st, 1847, has been in successful operation for the past year, and hundreds of thousands of staves have been dressed by it. It is warranted to dress the same quantity of staves with as little power as any that can be started; also leave the full thickness on thin edges and thin ends, and conform as near to the crooks and twists of the timber as can be desired. The jointing of the machine which accompanies it, has been subjected to the severest test, and pronounced superior to that performed by hand. Application for a patent on the Jointer has been made.

Large quantities of Hogheads and Shooks made with staves dressed and jointed with their machines have been sold and used to the entire satisfaction of the purchasers.

For rights and machines address the proprietors at their Manufactory, Artizan street, New Haven, Connecticut, where machines in full operation may be seen. JUDSON & PARDEE.
New Haven, July 17, 1848. jy29 3m*

GENERAL PATENT AGENCY.

REMOVED.

THE SUBSCRIBER has removed his Patent Agency from 189 Water to 43 Fulton street.

The object of this Agency is to enable inventors to realize something for their inventions, either by the sale of Patent Goods or Patent Rights.

Charges moderate, and no charge will be made until the inventor realizes something from his invention. Letters Patent will be secured upon moderate terms. Applications can be made to the undersigned, personally or by letter post paid.
SAMUEL C. HILLS, Patent Agent.

Johnson & Robbins,

Consulting Engineers and Counsellors for Patentees.

Office or F street, opposite Patent Office, Washington, D. C. j17 11

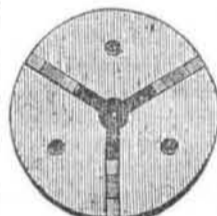
Saws.

LEAVITT & M'DANIEL, Concord, N. H., make of the best cast steel the following Saws:—Circular, Mill, Tennon, Cross-cut, Felloe and Veneering Saws. Also, Turning and Billet Webs, and Butcher's Bow Saws. No saws ever made equal to their cast steel Mill Saws. The trade supplied on liberal terms. \$23 2m*

UNIVERSAL CHUCKS

FOR TURNING LATHES

For sale by the Manufacturer's Agents,
QUINCY & DEALA PIERRE, 81 John street New York. \$2 3m*



Coal.

THE Subscriber has constantly for sale by the cargo or ton all sizes of Coal for MANUFACTURERS and FAMILIES, from the best Schuylkill and Lehigh mines. Hazleton and Spring Mountain, lump and steamboat Coal. Tamaqua Chestnut for engines.—Peach Orchard and other red ash Coal. Midlothian, Virginia, a superior article for smith's use. Cumberland, Sidney and Liverpool Coal. For sale at the lowest market prices. J. P. OSTROM,
corner 10th Avenue and 26th st. au5 3m*

PREMIUM SLIDE LATHE.

THE subscriber is constantly building his improved Lathes of all sizes, from 7 to 30 feet long, and can execute orders at short notice.

JAMES T. PERKINS,
Hudson Machine Shop and Iron Works,
Hudson, N. Y. m11

Agricultural Implements.

Inventors and Manufacturers of superior Agricultural Implements may find customers for their goods by applying at the Agricultural Warehouse of S. C. HILLS & CO. 43 Fulton st. au8

Machinery.

PERSONS residing in any part of the United States who are in want of Machines, Engines, Lathes, or ANY DESCRIPTION OF MACHINERY, can have their orders promptly executed by addressing the Publishers of this paper. From an extensive acquaintance among the principal machinists and a long experience in mechanical matters they have uncommon facilities for the selection of the best machinery and will faithfully attend to any business entrusted to their care. MUNN & CO. a15



The above is prepared to execute all orders at the shortest notice and on the most reasonable terms:

Lap welded Wrought Iron Tubes FOR TUBULAR BOILERS,

From 1 1-4 to 6 inches diameter, and any length, not exceeding 17 feet.

THESE Tubes are of the same quality and manufacture as those extensively used in England, Scotland, France and Germany, for Locomotive, Marine and other Steam Engine Boilers. THOMAS PROSSER, Patentee,
28 Platt street, New York d26

TO IRON FOUNDERS.

Pulverized bituminous, or sea-coal Facing, an approved article for mixing with moulding sand to make the sand leave the castings easily. Also fine bolted charcoal and anthracite coal dust, soapstone, and black lead on hand in barrels, and for sale by G. O. ROBERTSON,
\$23 4t* Importer, 283 West 17th street, N. Y.

STEAM BOILER.

BENTLEY'S Patent Tubular and other Boilers of any size, shape or power, made to order, by SAMUEL C. HILLS & CO. 43 Fulton st. au8