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LIST OF PATENT CLAIMS  
Issued from United States Patent  
FOR THE WEEK ENDING JULY 18, 1854.

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for the purpose of supplying ships with f ked  
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all ships fur ished with suitable light-  
conductors, they show a regard for the  
of humanity and for their own interests  
by making this return; and it is to be hoped  
that all underwriters will follow this good ex-  
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**The Great Republic.**  
The mammoth clipper "Great Republic,"  
hull of which was lately purchased by N.  
number, of this city, is to be rebuilt. She  
will have three decks and three masts, in-  
stead of four as first built, and will be capable  
of carrying from 3,000 to 3,500 tons. The  
cost of rebuilding her will be somewhere  
between \$100,000 and \$125,000. She will be  
employed in the China trade, under her origi-  
nal name. The length and model will remain  
unchanged. In sixty or seventy days, it is sta-  
she will be ready for sea.

**Manufacture of Caviare.**  
The sturgeon fishery is very extensive in  
the rivers in New England. A part of the fish  
is valuable for the manufacture of isinglass.  
The spawn is largely bought up by a German,  
who, for several years, has manufactured there-  
from a condiment called "caviare," clear and  
beautiful as jelly, and which he sends to Eu-  
rope, where it is esteemed a great luxury.  
The sturgeon is not, as many suppose, a fresh  
water fish; they go up the rivers to spawn.

**Routes to California.**  
The following are the distances of four routes  
from this city to California, furnished by Lieut.  
Maury to the Honduras Inter-oceanic Railway  
Company:  
From New York to San Francisco, Via  
Panama, . . . . . 5,200  
Ditto . . . . . via Nicaragua, 4,700  
Ditto . . . . . Honduras, 4,200  
Ditto . . . . . Verl Cruz and Tehuantepec, 4,200  
No allowance is made in the above for the  
distance across the continent.

**Silver Pointed Rods.**  
The Livingston County "Republican" of  
the 29th ult., states that the house of Mr. Cush-  
ing, about a mile north of the village of Gen-  
eseo, in that county, was struck by lightning  
during a storm on Thursday the 22d. What  
is singular in the case, the house was protected  
by three silver pointed lightning rods of most  
approved construction, which rods it seems,  
afforded no protection.

**The Ches.**  
R. Chisholm, in a letter to the Charleston  
"Mercury" (S. C.) asserts that good water was  
found for him by a "divining rod," by a person  
who came to his place for that purpose, in nine  
spots, where no water fit for any good purpose  
ever could be found previously. He states  
that he once had no faith in "Bletonism," but  
it would be folly for him to disbelieve any  
longer.

**Flying.**  
We have received a communication from S.  
W., of Pa., who asserts that he has watched  
vultures in their flights, with great attention,  
with the naked eye and with a telescope, and  
he never saw one, according to SDB. C., "sail  
slowly through the air for many minutes with-  
out flapping its wings."

**Peat for Fuel.**  
The Waterbury "American" says that two  
beds of peat have recently been discovered  
about two miles from that city, and that two  
joint stock companies have been formed, with  
abundant capital, for the purpose of supplying  
it as a fuel for market.

TO CORRESPONDENTS.

E. E., of Ohio.—You call our attention to an error published some time since in this column, in regard to the movement of a carriage wheel. We stated that the top and bottom moved with the same velocity, which is incorrect. The error in question resulted from the omission of the word "not" in the paragraph, and it escaped our attention until some correspondent wrote us in regard to it.

E. W., of Ind.—What do you mean by "a double box lay?" Is it one with two shuttle boxes. Looms with three shuttle boxes are very common, and we have seen one with four.

I. C., of Ill.—To strain an upright saw by means of a spiral spring, is an old invention.

J. P. N., of N. Y.—An experiment would determine your enquiry much more satisfactorily than we can answer it.

I. E. W., of Iowa.—Your alleged improvement in eccentric lathes contains no new motions, neither can we discover in it any particular combination which is patentable. Your contrivance for a hand car to run on common roads and across streams, we consider impracticable.

J. W., of C. W.—A Parker wheel, we believe, as you suggest, is about the best you could employ.

J. McK., of Troy, N. Y.—We are doubtful of the obtaining a patent. If he wishes to apply, he must first make a model—the smaller and neater the better, and send it with the Patent Office fee to us.

B. C. Jr., of N. Y.—We do not know how much journeymen millwrights are paid per day, in the South, and therefore, we cannot advise you in regard to the propriety of your going there.

O. C., of Pa.—Several inventions have been made in machines for paperfolding. If you wish our opinion as to the novelty of a contrivance of your own, for the purpose, send a sketch and description of it.

W. L. S., of S. C.—The mere idea of forcing water through pipes into a tank or reservoir by a screw, is not a novel idea. An apparatus like this is illustrated in Ewbank's Hydraulics, and is an old invention.

L. P. S., of Ct.—Your apparatus for cutting Osage Orange hedges appears to contain some novelty. It is impossible to say whether it would answer the purpose or not.

M. C., of N. Y.—It is perfectly nonsensical to undertake to bolster up Ericsson's scheme by such flimsy statements as you have advanced. A man can make thousands of assertions and not be able to prove one. Our course in relation to the matter has been plain and straightforward, and we have nothing to take back. It is now asserted that he has abandoned hot air altogether, and if this is true, certainly our arguments against its use have not caused it—it is the defect of the system itself. Ericsson is an ingenious man and we are sorry that he has not had a more plausible field for his exercise.

A. J. G., of St. Louis.—Neither you nor any other person ever saw an article recommended by us, in the Sci. Am., embracing any feature of your machines as a perpetual motion. As the power which produces your vacuum is applied, let us call it A, and as the vacuum obtained, which is an exponent of the pressure of the atmosphere is equal to it, let us call it B, therefore A is equal to B. As water is a motive agent, every fire engine, on the principle set forth by you, should be a perpetual motion. All your calculations are made on wrong premises.

J. F., of Pa.—There is no match machine described on page 140, Vol. 8. For information about such machinery apply to William Gates, Jr., Frankfort, N. Y.

W. C. C., of Mo.—You cannot use without his permission anything which Mr. Allen claims in his patent. First study well his claim until you understand it, and then you will be able to apply your improvement with a full knowledge of the extent of his patent. Don't undertake to see how near you can approach his patent without infringing it, but keep as far from it as you can.

G. M., Jr., of Ill.—Your method of ventilation, so far as we can judge, is new and patentable. It is more simple than the original plan.

G. S. H., of N. B.—We suppose the Scientific American would reach more of the class of manufacturers alluded to in your letter than any other journal.

T. H. B., of Me.—Your improvement in brushes for scouring, etc., appears to be an entirely new plan. You had better send us a model of it. It must be a decided luxury to have a hydraulic tooth brush operating so efficaciously as you describe.

J. S. S., of Md.—You cannot claim damages for the use of an invention by other parties previous to the granting of the patent. All use subsequent to its issue, would be an infringement, and damages could be sustained.

J. S. O., of Texas.—You cannot so well dispose of your invention until it is secured by patent. There are very few who will purchase under such circumstances. Cannot you procure the aid of some one to advance the patent fee—some one who is acquainted with you? This is often done, and is in reality your only hope.

E. F. F., of Vt.—Do not be afraid of making experiments. Your letter is so worded that we do not understand your question "as to printers ink resisting coloring matters." Printers ink is made with lampblack and oil boiled for a long time and partly burned.

J. R. L., of Tenn.—Prof. Page's engine is composed of a number of hollow electro-magnets, not a continuous one. Daniel Davis, No. 423 Washington street, Boston, is the manufacturer, to whom you refer. You may depend upon it, that such an engine cannot compete, in the present state of electro-chemistry, with a steam engine.

E. C., of Vt.—Several machines for pegging boots and shoes have been patented. See last week's Scientific American.

Money received on account of Patent Office business for the week ending Saturday, July 22:—

B. H. W., of Mo., \$60; F. B. H., of Ind., \$25; E. C. F., of Ct., \$35; W. T., of Ct., \$35; N. C. S., of Ct., \$5; J. G. C., of Mass., \$20; E. M., of Va., \$25; B. & W., of Mass., \$25; J. T. B., of Pa., \$30; W. H. E., of N. Y., \$140; B. D., of N. Y., \$30; J. A. G., of Mich., \$10; F. B., of Vt., \$30; H. F. B., of Ind., \$30; R. H. T., of N. Y., \$50.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 22:—

W. T., of Ct.; S. H. S., of Texas; E. M., of Va.; E. O. F., of Ct.; W. H. W., of Pa.; J. T. B., of Pa.; E. & R., of N. Y.; R. C., of S. C.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 4 lines, for each insertion, 75 cts; 8 lines, 1 50; 12 lines, 2 25; 16 lines, 3 00.

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 inserting.

UNITED STATES PATENT OFFICE.

Washington, July 19, 1854. ON THE PETITION of Ross Winans, of Baltimore, Md., praying for the extension of a patent granted to him on the 26th day of November, 1840, for an improvement in the mode of regulating the waste steam in locomotive steam engines...

It is ordered that the said petition be heard at the Patent Office on Monday, the 13th of Nov. next, at 10 o'clock, A. M., and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing. All testimony filed by either party, to be used at the said hearing, must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

The testimony in the case will be closed on the 3rd of Nov.; depositions and other papers relied upon as testimony, must be filed in the office on or before the morning of that day; the argument, if any, within ten days thereafter.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Pa.; Scientific American, New York; Post, Boston, Massachusetts; and Inquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 13th day of Nov. next, the day of hearing.

CHARLES MASON, Commissioner of Patents.

P. S.—Editors of the above papers will please copy, and send their bills to the Patent Office, with a paper containing this notice.

TO MANUFACTURERS AND MECHANICS.

The Kentucky Mechanic's Institute will open its annual exhibition in Louisville, on Tuesday, Sept. 26, 1854.

The Committee on Exhibitions respectfully extend an invitation to the Manufacturers and Mechanics of the Union to exhibit articles of their manufacture, and would call the attention of the many facilities afforded for the advantageous display of all articles sent for exhibition. A steam engine, with shafting, has been provided, to exhibit working models of machinery in motion. Previous satisfactory results have proved exhibitions of this kind to be of the utmost utility, and to bring present advances, there is every reason to believe that the coming exhibition will be no inferior to any held in the West, and will be calculated to promote, in an eminent degree, the advancement and best interests of the arts and manufactures throughout the country. For further particulars address F. W. Vogdes, Secretary, at Louisville, Ky. C. L. STANCLIFF, President.

HARTSON & CO'S CELEBRATED TURNING LATHES, PLANING AND DRILLING MACHINES.

Having added extensively to our facilities, we are now prepared to execute orders for the above at short notice; also manufacture to order all kinds of machinery and engine builders. We now have on hand, ready for delivery, the following: Planing Machines, one to plane 25 feet long by 5 feet square; one 20 ft. by 3 ft.; one 18 ft. by 3 ft.; one 16 ft. by 3 ft.; two 8 ft. by 30 in.; two 6 ft. by 25 in.; two 4 ft. by 22 in. Turning Lathes with screw gearing complete: one 22 ft. shears 42 in. swing; one 16 ft. 42 inch swing; two 20 ft. 26 inch swing; one 18 ft. 25 inch swing; one 18 ft. 22 inch swing; also three vertical suspension drilling machines. The above are all made in the best possible workman-like manner and of the best material. G. B. HARTSON & CO., Globe Works, foot of 3rd street, North River, N. Y. 45 4\*

HENCK'S FIELD BOOK FOR ENGINEERS.

Second Edition, D. APPLETON & CO., 345 and 348 Broadway. Just Published. Field Book for Railroad Engineers.—Containing Formulae for laying out Curves, Defining Frog Angles, Levelling, Calculating Earth Work, &c., &c., together with tables of Radii, Ordinates, Deflections, Long Chords, Magnetic Variation, Logarithms, Logarithm and Natural Sines, Tangents, &c., &c. By John B. Henck, A. M., Civil Engineer, one vol., pocket book form. Price \$1.75. The first edition of 1,000 copies of this Work was sold on four successive days at most unprecedented rates in works of this class. The Publishers have received letters from the following eminent Professors and practical Engineers, who commend it as the best practical elementary work on the subject of American Railroad Engineering.—Prof. D. H. Mahan, West Point; Prof. M. M. Gillespie, Union College; Prof. H. E. Eustis, Lawrence Scientific School; Prof. B. F. Greene, Rensselaer Polytechnic School; Prof. J. T. Benedict, New York Free Academy; W. J. McAlpine, State Engineer; E. S. Chesbrough, City Engineer, Boston; S. M. Felton, Philadelphia; G. W. Whistler, New Haven Railroad; Wm. E. Worthen, New Haven Railroad. 46 3

WARNER'S TURBINE WATER WHEEL.

These wheels are now made at the Wareham Manufacturing Co's Works, Wareham, Mass. They are too well known in New England to require any description; they are made of cast iron, with steel buckets firmly cast into the rim—a great improvement over cast-iron buckets in point of strength and economy of water; are not affected by back-water or ice. They are equally adapted to all manufacturing purposes. Parties wishing further information will be furnished with certificates, &c., by addressing J. WARREN, Wareham, Mass. 46 2\*

PEASE'S IMPROVED MACHINERY and Burning Oil.

Will save fifty per cent, and will not gum. This oil possesses qualities vitally essential for lubricating and burning found in no other oil. It is offered to the public upon the most reliable, thorough, and practical terms on every class of machinery, by our most skillful engineers and machinists, who pronounce it not only superior and cheaper than any other, but the only oil that in all cases reliable, and will not gum. It has been practically tested in the office of the Scientific American, and pronounced superior to any other which they have ever used. Manufactured and for sale in quantities to suit, only by the inventor, H. L. PEASE, Oil Manufacturer, 61 Main st., Buffalo, N. Y. N. B.—Reliable orders for any part of the United States or Europe filled immediately. 47

WOOLEN FACTORY AT AUCTION.—A Woolen Factory on a good water power, situated in Burlington, Racine Co., Wis., with two sets of machinery of a superior quality, will be sold to the highest bidder at Milwaukee, at the office of Crampton & Dove, on the 8th day of Aug. 1854, at 10 1/2 o'clock, A. M. Said factory is made of brick and stone, three and half stories high, and 70x35 feet. One set of said machinery will be sold separately. Said property will be sold without reserve. Terms at the sale.

V. CHARLES, Assignee. M. FRINCK, 1\*

FOR SALE, LOW.—The Patent of a Self-Unlocking and Adjusting Hay Elevator.

Patented May 30th 1854. Address, Horsham, Pa. T. T. JARRETT, Patentee. 48 7\*

IRVING'S PATENT SAFETY CIRCULATING STEAM BOILER.—For Stationary, Locomotive, and Marine Engines. These Boilers having been thoroughly tested by scientific experiment and practical use, are being rapidly introduced into every part of the United States. Their claims to superiority are fully supported by the united testimony of highly respectable parties, who have given them the most successful trials. The following are among the chief advantages of this Boiler: 1st. Great increase of heating surface, with diminution of bulk. 2nd. Economy of fuel—a saving of more than 50 per cent, being effected over other boilers. 3rd. Economy of space, compactness, and strength of form. 4th. Increased safety from explosion. 5th. Freedom from incrustation. Circulars obtained on application at the Company's Office. Boilers of any required power furnished on short notice. Rights negotiated for all parts of the United States, England, France, and Belgium. All communications promptly attended to. W. F. PHELPS, Sec'y Irving S. Boiler Co., 347 Broadway, N. Y. 45 3

HARRISON'S SUPERIOR GRAIN MILLS.—Latest Patent of June 6, 1854.—The New Haven Mill Co. having the right for said Mills, will keep a supply constantly on hand. A liberal commission paid to agents for sale of the same. For further information address New Haven Manufg. Co., New Haven Ct. 45 1\*

MARYLAND INSTITUTE.—Baltimore Seventh Annual Exhibition will be opened on the 18th September next, and close on the 16th of October. Circulars with rules and regulations, and any information required, will be promptly furnished by application to John S. Selby, Actuary of the Institute. 456\*

MACHINISTS TOOLS.—Shriver & Brothers, manufacturers, Cumberland, Md., have for sale various sizes of Planing Machines, Engine Lathes, Drills, and Hand Lathes. These tools are built in the best manner and have received the highest testimonials at the Ohio Mechanics Institute, and from railroad and other shops where they are in use. Full description and price list furnished upon application to SHRIVER & BROS., Cumberland, Md. 45 3\*

OIL FOR MACHINERY.—Cumberland Brothers' Patent Metallic Oil and Grease may be obtained from the undersigned, who are the manufacturers. An experience of five years, and increased facilities, will hereafter ensure the prompt filling of all orders. YOCKNEY & CO., Elizabethport, N. J., office 67 Exchange Place, N. Y. N. B.—We have no agent in New York, nor any other place of business than the above. 45 12\*

REYNOLD'S DIRECT ACTION and Re-Action Water Wheel.—This is one of the most simple, cheap, and efficient Iron Water Wheels now in use.—For description, cuts, &c., apply to SAML. B. LEACH, Agent, 60 Beaver st. N. Y. 45 13\*

SUBMARINE ARMOR.—For sale.—A complete suit, with the Pump and rescuing apparatus, in excellent order and ready for immediate use. Address GEO. C. HOWARD, Tool Builder and General Machinist, 18th street, below Market, Philadelphia. 44 4\*

PARTNER WANTED.—In the foundry business, an old establishment, and in successful operation. Situated on a line of railroad, about 40 miles from Buffalo, N. Y. This is a desirable offer. Address, if by letter, P. P., Box 27, Dunnville, O. W. 44 3\*

BUFFALO MACHINERY DEPOT. JAMES W. HOOKER, 36 Lloyd St., Buffalo, offers for sale all kinds of machinery, as follows: Engine Lathes, Planing Machines, Universal Chucks, Cast-steel Bore, Drills, Leather and Rubber Belting, Packing and Hose Oils, Millstones, Portable and Stationary Engines, Boilers, and Machinery generally. 43 1\*

PATENT ROCK DRILL.—The simplest, cheapest and best ever offered to the public. For information apply to A. B. ELY, Esq., Boston, Mass., agent of North American Rock Drilling Company. 43 3\*

READING'S PATENT CORN SHELLER and Cleaner.—Capacity 200 bushels per hour. 9 first premiums awarded in the Fall of 1853. Patent Rights and Machines now for sale at the corner of 2nd Street and Pennsylvania Avenue, Washington, D. C. I challenge the world to produce its equal. Address personally or by mail. WILLIAM READING. 43 13\*

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 9s 1/2 per annum. 43

T. M. CHAPMAN'S PATENT SAW FILING Machine. The best known and without a rival. The subscriber offers for sale Territorial Rights, and also builds and sends machines wherever they may be wanted. T. M. CHAPMAN, Patentee, Old Town, Me. 40 10\*

LEONARD & WILSON.—No. 60 Beaver st. and 109 Pearl st. have constantly on hand and for sale a full assortment of Machinery and Carpenters' Tools, embracing every variety of Engine and Hand Lathes, Iron Planing Machines, Mortising and Tenoning Machines, Wood Planers, &c. Also, leather Belting of all sizes made of the best oak tanned butts, stretched on powerful machines, riveted and cemented. 42 13\*

PORTABLE STEAM ENGINES.—The subscriber is now prepared to supply excellent Portable Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact, say 2, 1 1/2, 2, 4, 6, 8, and 10 horse power, suitable for printers, carpenters, farmers, planters, etc. Also, a 2 1/2 horse engine can be seen in store, it occupies a space 5 feet by 3 feet, weighs 1500 lbs., price \$240; other sizes in proportion. S. C. HILLS, 260 1/2 Machinery Agent, 12 Platt st., N. Y. 42 11\*

FAIRMAN & WILLARD'S BORING MACHINE, for boring car wheels. This is the best machine in use, and warranted to bore thirty wheels in ten hours, and bore them perfectly true. It is equally well fitted for boring Pulleys, Gearing, &c. Price \$600, cash. JAMES W. HOOKER, 43 4eow Buffalo Machinery Depot, 36 Lloyd St., Buffalo. 43 11\*

FOR RAILROADS AND MACHINE SHOPS. I am prepared to furnish at the lowest rates, the following Oils: Pure Refined Sperm, Solar, Sperm, and Engine Oil, for locomotives, &c. Refined Elephant Oil, for burning, Lard oil, No. 1, 2, and extra. Lubricating, Whale, and Resin Oil, for heavy machinery. JAMES W. HOOKER, 43 4eow Buffalo Machinery Depot, 36 Lloyd St., Buffalo. 43 11\*

MACHINERY.—S. C. HILLS, No. 12 Platt-st., N. Y. dealer in Steam Engines, Boilers, Iron Planers Lathes, Universal Chucks, Drills, Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniel's, and Law's Planing Machines; Dick's Presses, Punches, and Shears; Mortising and Tenoning Machines; Belting; Machinery Oil, Beal's Patent Cob and Corn Mills; Burr Mill and Grindstones; Lead and Iron Pipe, &c. Letters, to be noticed, must be post-paid. 27feow

EUROPEAN PATENTS.—MESSRS. MUNN & CO. pay especial attention to the procuring of Patents in foreign countries, and are prepared to secure Patents in all nations where Patent Laws exist. We have our own special agents in the chief European cities; this enables us to communicate directly with Patent Departments, and to save much time and expense to applicants.

STAVE AND BARREL MACHINERY—HUTCHINSON'S PATENT.—This machinery, which received the highest award at the Crystal Palace, may be seen there in operation during the ensuing season. Outting, Jointing and Croing Staves and Turning Heads. Staves prepared by this process are worth to the cooper from 20 to 40 per cent more than when finished in another way. Applicable alike to thick and thin staves. Apply to C. B. HUTCHINSON & CO., Auburn, N. Y., or at the Crystal Palace. 34 1\*

KENTUCKY LOCOMOTIVE WORKS.—Corner of Kentucky and Tenth streets, Louisville, Ky.—The proprietors of the Kentucky Locomotive Works would respectfully inform Railroad Companies and the public generally, that, having completed their establishment, they are now prepared to receive and execute orders with fidelity and dispatch. They will contract for Locomotives, Passenger, Baggage, Freight, Gravel, and Hand Cars, of every style and pattern, as well as all kinds of Stock and Machinery required for railroads. Particular attention will be paid to Repairing, for which they have every facility. They are also prepared to contract on favorable terms for building all kinds of Machine Tools, such as Turning Engines, Lathes, Planers, Drills, Blotting, Spining, and Shaping Machines of every variety of pattern. Having also a large Foundry connected with the establishment, orders for castings are solicited, and will be filled with promptness. Car Wheels of any pattern can be furnished on short notice. Double and single plate and Spoke Wheels of all sizes constantly on hand. Communications or orders must be addressed to OLMSTED, TENNEY, & PECO, Louisville, Ky. 40 6m.\*

PIG IRON.—Scotch and American; also English Boiler Plate and Sheet Iron, sale at the lowest market prices, by G. O. ROBERTSON, 185 Water street, New York. 40 1\*

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of "Machinists' Tools, and Steam Engines, has now finished of 35 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lathes have back and screw gear, jib rest, with screw feed, and the rest is so arranged that the tool can be adjusted to any point the work may require, without unfastening the tool, hence they possess all the good qualities of the jib and the weight lathe; they are of the best workmanship. Price of Lathe with count shaft and pulleys, \$155 cash. Cuts, with full description of the lathe, can be had by addressing as above, post-paid. Also four 30 horse power vertical Steam Engines with two cylinders. Price of engine with pump and heater, \$300 cash. For particulars address as above. 35 1\*

PATENT RIGHT FOR SALE.—We are ready to dispose of the Patent Right, (or any part of it) of the best Stone Drilling Machine now in use, or we are prepared to furnish working machines at very reasonable prices, these machines will drill from 1 to 7 inches in diameter, and 100 feet deep, and can be worked by Hand, Horse, or Steam Power, one machine performing the work of twenty-five men. For further particulars and circulars with cuts address JAS. T. WHITTEMORE, Agent American Manufacturing Co., 39 State street, Boston. 40 1\*

FULTON FOUNDRY AND MACHINE WORKS. S. W. corner of Green and Morgan streets, Jersey City, N. J. The subscribers are prepared to contract for High Mills and Mining Machinery of every description. Horsepower Steam Engines of various sizes constantly on hand. All orders executed with promptness. 84 13\*

PALMER'S PATENT LEG.—The best appliance ever invented. Pamphlets containing the testimonials of the first American and European surgeons, and other information concerning this invention sent gratis to all who apply to PALMER & CO., Springfield, Mass.; or 376 Chestnut st., Philadelphia. 42 13\*

NORCROSS' ROTARY PLANING MACHINE. The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb. 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks, is not an infringement of the Woodworth Patent. Rights to use N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, 208 Broadway, New York. The printed Report of the case with the opinion of the Court can be had of Mr. Norcross. 38 6m\*

MACHINERY FOR SALE.—The following machines are for sale at the "Scientific American" Office:—Alcott's Concentric Lathe, price \$35. Portable Mortising Machine, \$25. Businell's Iron Mill, \$30. All orders should be addressed (accompanied with the cash) to MUNN & CO., 128 Fulton st., N. Y. 42 13\*

MACHINISTS TOOLS.—Power Planers 4 to 16 feet long, weight 1,000 to 10,000 lbs. Engine Lathes, 6 to 12 feet long, weight 1,200 to 3,400 lbs. swing 24 to 36 inches. Hand Lathes, Gear Cutters, Drills, Bolt Cutters, Slide Rests, Chucks, &c., of best materials and workmanship constantly on hand, and being built, also the best Grain Mills in the country. "Harrison's Patent." For cuts giving full description and prices address NEW HAVEN MANUFACTURING CO., New Haven, Conn. 38 1\*

WOODWORTH'S PATENT Planing, Tonguing, Grooving Machines.—Double machines plane both sides, tongue, and groove at one and the same time, saving one half of the time when lumber is required to be planed on both sides. Large assortment constantly on hand. Warranted to give entire satisfaction to purchasers. JOHN H. LESTER, 67 Pearl st., Brooklyn, L. I. 37 13\*

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic, Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salmometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, etc., etc. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 35 1\*

PLANING, TONGUING, AND GROOVING.—BEARDSLEE'S PATENT.—Practical operation of these Machines throughout every portion of the United States, in working all kinds of wood, has proved them to be superior to any and all others. The work they produce cannot be equalled by the hand plane. They work from 100 to 200 feet, lineal measure, per minute. One machine has planed over twenty millions of feet during the last two years, another more than twelve millions of feet Spruce flooring in ten months. Working models can be seen at the Crystal Palace, where further information can be obtained, or of the patentee at Albany, N. Y. GEO. W. BEARDSLEE, 37 3m

STATIONARY STEAM ENGINES.—The subscriber is now prepared to furnish, with or without pumps, boilers, &c. Horizontal Engines or in vertical frames, good strong, substantial, plain finished engines that will do good service, say from 4 horse, \$215, to 30 horse, \$1,037; they have Judson's patent valves, and will be warranted to work well. S. C. HILLS, 12 Plattst., New York. 31 1\*

A. B. ELY, Co. unseller at Law, 53 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs Munn & Co., Scientific American. 16 1\*

NOVELTY IRON WORKS.—Manufacturing of Machinists' Tools; also Engine Lathes, with an improved Foot Rest, &c. Planers, and Planes kept on hand; for sale by W. W. NICHOLS & CO., cor. B and Turnpike street, Boston, Mass. 41 1\*

## Scientific Museum.

### Kerosene.

This is the name applied to a new liquid hydro-carbon recently obtained from bitumen. The discoverer, Dr. Gesner, of Williamsburgh, N. Y., has received letters patent for his new combination of matter, and operations are now in progress by a company in this city for the extensive manufacture of the valuable products of his invention.

Kerosene is readily separable during its distillation into three distinct varieties, distinguished by the patentee, as A, B, and C Kerosene. Each of these varieties possess different numbers of the equivalents of carbon and hydrogen and different and somewhat peculiar characters, and each has been the subject of a patent. Their densities and boiling points are as follows, viz.:

	Spec. gravity.	Boiling point.
A Kerosene	0.750	150° Fah.
B "	0.775	250° "
C "	0.800	350° "

The A Kerosene has one of the properties of benzole, namely, that of rendering common air, when passed through it or its vapor, a gas suitable for illuminating purposes. It was therefore at first taken for benzole, but recent investigations made by American and European chemists have proved that its specific gravity, boiling, and congealing points, chemical composition, &c., differ widely from those of benzole, or naphtha. Its lower density and boiling point, and greater volatility, give the Kerosene a great advantage over benzole, which, in cold weather is certain to condense in the pipes conveying the air vaporized by it. On the other hand a gas light of great brilliancy is produced from the A Kerosene, and steadily maintained during the coldest periods of winter, and even when the gas pipes pass through ice.

Like the foregoing, the B Kerosene is a spirituous hydro-carbon; but it has a greater specific gravity and a higher boiling point. It is incapable of vaporizing atmospheric air passed through it in a sufficient degree to afford light. It however gives a beautiful white light when consumed in a proper lamp.

The C Kerosene is an essential oil, which is also admirably adapted for lamps of proper construction. The three liquids are separated the one from the other, at one and the same distillation, and the yield even from bituminous rocks or shales is equal to forty gallons per tun, exclusive of a quantity of mineral tar, which is applied to the manufacture of a superior hydraulic cement and other useful purposes. The A and B Kerosene exercise but a feeble action on gutta percha and india rubber, while the C Kerosene is a perfect solvent for those substances.

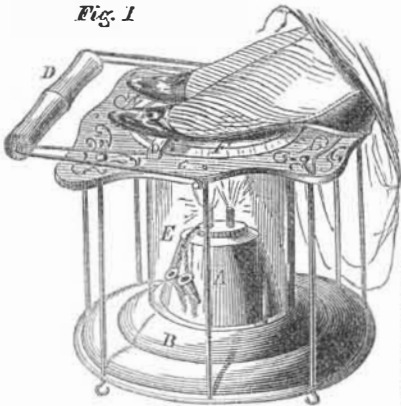
The peculiarities of these liquids are no doubt derived from the nature of the material subjected to manufacture and which is acted upon by cheap and powerful re-agents, and a peculiar mode of conducting the distillatory and decoloring processes, all of which are set forth in the specifications of each patent. Bituminous rocks of any kind, and such as have not heretofore been applied to any useful purpose, yield these liquids abundantly, producing cheap agents for illuminating purposes. They may be made and sold at much lower rates than any of the oils or burning fluids hitherto offered in the market. It is not yet known what further uses may be found for these new products. Dr. Gesner is still engaged in prosecuting the inquiry, and his own labors, or those of other chemists may discover still further applications for the liquid hydro-carbons he has produced.

Several machines have been invented or proposed for passing the air through the Kerosene to produce the Kerosene light. To light a room, a building, or a town, it is only necessary to wind up the machine in the manner of winding up a clock. The machine collects and distributes the air which is rendered a splendid illuminating gas by passing it through or over the surface of the Kerosene.

### Combination Portable Stove and Lantern.

On the 11th of last April a patent was granted to Francis Arnold, of Middle Haddam, Conn., for the invention represented by the annexed figures, of which figure 1 shows its application as a foot stove, and figure 2 as a portable stove for boiling a kettle, &c.

Fig. 1



A is a lamp; B is the bottom plate of cast-iron, with a recess for the seat of the lamp; C is the top plate of cast-metal, and D D' is a double handle which answers for a foot fender, as shown in figure 1, with the projecting heel support, G; E is a transparent mica case surrounding the lamp, B, and the underside of the top plate, C. It is therefore a portable stove and lantern. The various purposes for which this neat apparatus can be used, may be readily conjectured by every person. No further description of the parts is required. No one can misunderstand them. In cases of sickness it is a very useful apparatus to keep any needful drink warm, it can also be used for heating flat irons, and for this purpose can be kept in any chamber. To say anything more respecting



Fig. 2

its general adaptability to a hundred purposes, would just be telling what our readers can see at once for themselves.

More information may be obtained by letter addressed to the patentee at his place of residence named above.

### To Extinguish Fires on Steamboats.

A. Walker, Supervising Inspector for the 9th District, under the new Steamboat Law, has directed the attention of the owners and agents of steamboats navigating the lakes, to the importance of extinguishing fires by steam, he says, "I most earnestly recommend that all steam vessels should be provided with a blow-off cock or valve, permanently attached to the boilers, with a rod or handle connected, and leading from the same, above the main deck, where it would be accessible at all times to the engineers and officers of the boat, so that in case fire communicates in the hold, as it generally does, this cock or valve may be opened in an instant, and allow steam to escape into the hold of the vessel, which is one of the most effectual means of extinguishing fire that has yet been discovered; and in nine cases out of ten would be the means of saving the boat, though badly on fire at the time it was discovered. The cost of pipe and attachment to boilers is but a small expense—not exceeding \$30. It is one of the great safe-guards, and should be placed on all steam vessels, as their safety so much depends on some ready and certain means to check the flames in the outset, which steam will do most effectually, if allowed to find its way into any room, recess, or ap-

erture where there is any fire. Many boats and propellers on the lakes have already adopted the same, or a similar plan, and some can bear testimony to the utility of such an auxiliary in the extinguishment of fire.

I would also respectfully invite the especial attention of engineers to this particular subject, believing all can appreciate the importance of having some ready and sure means to prevent further disasters by fire, thereby avoiding such scenes as have been enacted in past years, the contemplation of which is by no means pleasant to dwell upon."

### Lime Water a Remedy for Diarrhea.

In a letter to the Charleston (S. C.) "Mercury," J. Lartigue asserts that lime water is an excellent remedy for the above disease. He does not claim it as something new, it being first suggested to his mind by reading Youatt, a writer on the "Horse." Mr. L. believes it is also good for cholera, for which he has tried it personally, with the following experience:

"The first case in which I tried it," he says, "was very interesting. The patient, a man about forty years of age, was taken with the most copious evacuations. He said that another would be his end. I thought so too, as the last, and several of the preceding were very violent. I gave him a half pint of the solution of quicklime, as strong as the unslaked lime would make it, but perfectly clear of the sediment. He had scarcely swallowed it before he began to sneeze violently, and said that he was frying in his stomach. He never had another operation—no fever, and was well in half an hour, except as to debility. I have had occasion to try it this summer with similar success. In one case it was checked too soon, and produced fever, but the patient soon recovered of that.

I am no advocate for quack medicines, nor am I a believer in panaceas; but I believe this remedy can be accounted for on chemical principles."

### Cure for Cholera.

The "Boston Medical and Surgical Journal" recommends for cholera attacks, a prescription as follows:—Laudanum, two drachms; spirits of camphor, one drachm; sweet tincture of rhubarb, four drachms; aqua ammonia, (hartshorn,) half a drachm; oil of peppermint, 15 drops. Take a teaspoonful in hot sweetened water every fifteen minutes, to allay the vomiting and pains.

### Cure for the Venom of Snakes and Insects.

A correspondent of the N. Y. "Tribune," signing himself "Old Physician," asserts that the virus of snakes, &c., is "Prussic Acid," and states that the antidote for it is spirits of hartshorn (ammonia). After a person is bitten he recommends a few drops applied to the wound, and 20 drops drank mixed with a little water and whiskey. This dose is to be taken every ten or twenty minutes, until profuse perspiration is produced, when all the symptoms of the poison, he asserts, will disappear. This antidote, he says, is perfect and unailing, and every person is advised to carry it with him, whenever he goes among venomous reptiles, &c.

This remedy is not new, but is old and well known, and perhaps is very good, but we are not acquainted with a single case of its successful use, although we have often heard its efficacy spoken of.

### Vandalism.

The English Consul at Jerusalem publishes a letter denouncing a Yankee named Jones, who lately sojourned in the Holy City, and turned a penny by chipping off with a hammer pieces of the "Holy Sepulchre," the "Tombs of the Kings," and other famous monuments, and selling them to travelers at pretty high prices, to be carried home. The Consul adds that "it is notorious throughout the East that a similar propensity is chargeable peculiarly to travelers from the United States." This is particularly just, considering that the British Museum has been enriched by such robberies.

It is also believed that the said Consul, through spite, has made an overt charge. Mr.

McGreggor, the Secretary for the Association for Converting the Jews, in this city, denies the whole allegation, against Mr. Jones.

### Seasonable Advice.

Use chloride of lime freely if the premises or vicinity of your house is impure. If bed-bugs annoy you destroy them with corrosive sublimate, beaten up in the white of an egg, and paste it on the wood-work infested. If roaches abound, moisten and sweeten bread crumbs or boiled potatoes, mix red lead with them, spread on sheets of paper, and scatter them about in the evening to be gathered up in the morning. If rats or mice be the pests, use good traps. In poisoning them you may poison greater folks, and if you do destroy them in this way, you create bad odors in the house.

### Pearl Fishing.

A party of gentlemen, from Wilmington, Del., visited Havre de Grace, a few days since, to witness the operations of the diving bell, preparatory to the formation of a company to engage in the pearl fishery. Thirty-five thousand dollars were subscribed, which is to be increased to fifty thousand. When organized, an expedition is to be sent to the coast of Mexico, to commence operations.

### LITERARY NOTICES.

**BIBLIOTHECA SACRA.**—The July number of this expiator and repository of New England theology, published at Andover, Mass., by G. W. F. Draper & Bro., contains seven original articles on different subjects, and a considerable amount of miscellaneous matter. The first article in it, is the account of an excursion from Damascus to Yabrudd, by the Rev. J. L. Porter, Missionary at Damascus, which is very interesting, but the one that has attracted our attention most, is the second, on "Druidism," by Rev. E. D. Morris, of Auburn, N. Y. This review is second to none other in the world.

**OLD EBONY.**—The last number of Blackwood's Magazine, republished by Leonard Scott & Co., No. 79 Fulton st., this city, is as usual rich, varied, and pungent. It contains nine original articles, one of which, "The recent growth of the United States," should be read by every American; it is worth the whole price of the magazine.

**PUDLEFORD AND ITS PEOPLE.**—By H. H. Riley. With illustrations. 12 mo. pp. 289. Samuel Hueston, 248 Broadway.—This is one of the best written amusing books we have read for some time. Puddleford was a new village, located in the far West, and its inhabitants composed every variety of character necessary to form a western village. The houses were built of logs, they had a tavern and a Justice of the Peace—the Squire did all the law business of the town. He lived in a frame house, the only one in Puddleford, and that was never finished. For a book of fun and truthfulness in portraying western life, we have read nothing which has pleased us more for some time.

**CHAMBERS' JOURNAL.**—For August, has been sent us by P. D. Orvis, No. 130 Fulton St. It contains several interesting chapters, the more entertaining being the remarks of Wm. Chambers concerning New York.

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