



A. P. W., of Ill.—There are a number of plans for cutting down standing corn; some of them have been patented. Yours is not new or patentable; you will have to try again.

A. L. B., of Vt.—We do not see that your electric engine has any advantages over others that are well known. Unless you could show some peculiar superiority, we think a patent could not be had.

E. V., of Ind.—We do not remember to have seen or heard of any furnace feeder arranged like yours. The idea of moving the sawdust to the proper points by elevators, is not patentable.

J. J., of Mass.—Safety floats in boilers for operating the valve when the water falls below a certain line, are old. Your plan is not patentable.

E. O. A., of Ga.—We find nothing new in your breech-loading cannon and projectiles. Making the cannon smaller at the muzzle is old; making it in two parts, secured together, is also old.

R. W., of Iowa.—Your paddle-wheel device is good in theory, but of no value practically; neither is it substantially new. You will find diagrams of paddle wheels whose buckets are held perpendicularly for the same purposes as yours, in Vol. 5, Sci. Am.

E. H., of Cal.—It would require considerable power to move such a lengthy column of water, no matter how small the bore of the pipe. How do you propose to fill the pipe? We regard your scheme for a Transatlantic Telegraph as impracticable.

T. D. J., of Mich.—Consult a doctor upon the medical properties of hemp, in diseases of the ear. Placed under the ear, it is an absolute specific for ear-aches and other pests of society. Cane heads are much in vogue in this city, to deprive people of hearing and other senses, so that they can be conveniently robbed; but we never heard of cane heads that were good ear-trumpets.

G. L. W., of Vt.—The Office do not regard drawings or models which are sent to file as evidence, unless the whole conditions of the Office are complied with, i. e. specifications and drawings complete are filed, and the Government fee paid.

E. B., of Wis.—Soapstone is often used for stove pipes to pass through, and the substitution of a hollow brick for that purpose, would not be patentable.

N. S. P., of Ill.—We have not the engraving to which you refer, in our possession, and if we had, we could not get up the circulars for you; we have no facilities for doing job work.

W. D., of N. Y.—Your plan for preventing gutters and leaders from freezing, is good and practicable; but it is not patentable. Discharging the exhaust of engines into leaders for the same purpose has long been practiced.

E. W. J., of Cal.—There is no treatise on the Steam Engine, issued very recently.

D. N. P., of Vt.—We perceive no special novelty in your carriage seat; it would not be of sufficient interest to our readers to compensate for the room it would occupy in our columns.

J. G. White, Perry, Ga., wishes to correspond with a manufacturer of thimble skeins for wood axes.

G. D. B., of N. Y.—It will be much easier for you to send us a description of your invention for examination, than for us to send you a description of all the hose couplings with which we are conversant. We wish our correspondents would always remember that it is easier for us to determine the novelty of their invention, whatever it may be, than for us to send them descriptions of all the machines in existence of a like nature.

W. H., of Mass.—There is nothing new or patentable in your heater. Heating the air by passing it through chambers, surrounded by the products of combustion, is quite old.

C. J., of N. Y.—Cooling liquids by forcing them through pipes that are submerged in cold water, is very old. Your device is not patentable.

N. R., of Pa.—Your plan of keeping rivers clear by warming the bottom of the steamboat, and thus imparting heat to the stream, is certainly novel, and doubtless patentable. Had Dr. Kane and other Arctic navigators been provided with your arrangement, it is probable they never would have been stuck in the ice. Why did you not bring out your improvement earlier? On a small body of stationary water it might operate; but in large rivers the warm water would be carried off as fast as heated.

P. P. J., of Pa.—Your plan for supplying children's rriages with fresh air, by means of a revolving fan, operated by the wheel of the vehicle, is a benevolent one for the rising generation, but it is not patentable.

H. P. J., of Mass.—Your compound bombshell, or big shell, containing a lot of little shells, is a very old device. It was invented several dozen times during the late siege of Sebastopol.

J. M. C., of N. C.—If your plan for preventing backlash, in gearing is new, it could be patented. Yes, it would be better to joint two ends of a rail on the same sill. A cannon ball, placed in water, would sink to the bottom. It is a popular error that bodies heavier than water will sink until they reach a point where the liquid is sufficiently dense, and there remain.

F. G. A., of Ga.—We do not think of any particular number of our paper in which engines and mills, similar to those you speak of, are described. But we presume we have many times published accounts of machinery that would suit you. Read the Sci. Am. carefully, and no doubt you will soon find what you desire. \$2 received.

J. D., of Pa.—The great amount of space required for your method of propelling vessels would certainly be an objection to its employment.

E. C., of Iowa.—The water in a tube will expand just in proportion to the heat which it is submitted; the same in low pressure steam as in boiling water.

M., of Me.—An arrangement somewhat similar to yours for straining saws, was illustrated in the last volume of the Scientific American, page 57. It is the invention of Brown & Coffin. They use air instead of steam. We do not think your device is patentable. \$1 received.

J. L., of Va.—Your water wheel is not new in principle. It is more expensive, and not so good for practical purposes as others which exhibit the same general plan, viz., buckets that alternately slide through a cylinder. You will find a number of such devices in the fifth volume of the Scientific American. Your invention would serve for a pump or rotary steam engine just as well as it would for a water wheel. But it is better in theory than in practice. It is not patentable, nor usefully practicable.

S. D., of O.—Cast-iron mantle pieces are enamelled with a frit of ground glass and borax, put on wet, in the form of a paste, allowed to partially dry in the air, and then fired in an oven. Don't know the temperature of the oven, nor any enamel that will stand an extremely high temperature.

G. W. F., of N. Y.—Artificial lights have been made of sufficient strength and purity to produce ambrotypes and daguerreotypes, but merely as abstract experiments, and not with a hope of improving upon daylight for such purposes.

F. W. E., of N. Y.—We could give you opinions about building a barn, according to our notions how a good and convenient one should be built, but not from practical experience. Probably you would find it profitable to steam your hay for feeding milch cows, at least for one meal per day.

Mr. H. G. Seiber will oblige us by sending his post office address without delay, as we wish to communicate with him.

D. E. W., of Conn.—You can make and sell an article two years before applying for a patent; but you run the risk of some other person taking out a patent on it during that period.

B. & B., of N. C.—Mr. F. S. Pease, of Buffalo, N. Y., manufactures and sells a good lubricating oil. The price of a suitable machine for mortising plow beams we do not know. Address some of the manufacturers.

N. W. C., of N. Y.—Christopher Hollingsworth, the inventor of the knuckle joint washing machine was a resident of Liberty, Ind., at the time his patent was granted—1852. A letter to that address might reach him.

S. & B., of Conn.—Your device for twisting twine is old.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, Feb. 7, 1857.—

J. F. R., of Iowa, \$25; D. R. A., of O., \$30; J. M., of Miss., \$60; A. E. W., of Iowa, \$25; I. H. C., of Ill., \$110; O. D. W., of Pa., \$100; H. W., of N. Y., \$30; B. S., of N. Y., \$30; S. G. L., of Mass., \$30; W. B., of N. J., \$10; B. T. B., of N. Y., \$35; I. P. S., of N. Y., \$17; H. R., of N. J., \$30; G. A. M., of N. Y., \$30; A. R. H., of Pa., \$25; T. P. S. D., of Me., \$5; G. & F., of N. Y., \$30; E. F., of Iowa, \$30; J. B., of R. I., \$30; N. B., of Ill., \$30; L. W., of L. I., \$35; N. N., of Pa., \$30; F. W. W., of Texas, \$25; E. B., of N. Y., \$30; B. A. H., of N. Y., \$10; R. W., of Mass., \$30; G. W. F., of Pa., \$50; J. P. R., of Pa., \$130; E. F. F., of Vt., \$25; J. M., of Ind., \$50; R. S. J., of Conn., \$25; W. D. D., of N. Y., \$27; J. H., of N. Y., \$5; L. W., of N. Y., \$15; J. H. S., of N. Y., \$27; J. C., of L. I., \$60.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Feb. 7, 1857:—

T. P. S. D., of Me.; A. R. H., of Pa.; W. L., of N. Y.; J. F. R., of Iowa; C. B. G., of Iowa; W. W. D., of N. Y.; E. F. F., of Vt.; J. H., of N. Y.; L. W., of N. Y.; T. H. S., of N. Y.; G. W. F., of Pa. (2 cases); F. W. W., of Texas; J. C. of L. I.

Important Items.

COMPLETE SETS OF VOLUME XII EXHAUSTED.—We regret that we are no longer able to furnish complete sets of the present volume. All the back numbers previous to January 1st (No. 17) are entirely exhausted.

INVENTORS SENDING MODELS to our address should always enclose the express receipt, showing that the transit expenses have been prepaid. By observing this rule we are able, in a great majority of cases, to prevent the collection of double charges. Express companies, either through carelessness or design, often neglect to mark their paid packages, and thus, without the receipt to confront them, they mulct their customers at each end of the route. Look out for them.

Terms of Advertising.

Twenty-five cents a line each insertion. We respectfully request that our patrons will make their advertisements as short as possible. Engravings cannot be admitted into the advertising columns.

All advertisements must be paid for before inserting.

SUPERIOR MACHINISTS TOOLS by CARPENTER & PLASS, of every size and description, and considered by all who have used them the best in market, at No. 479 First Avenue, New York. 23 1/2

J. HERVA JONES' Double or Single Hand Planting Machines.—Farmers and Dealers please send for a circular containing a full description of these valuable implements. Over 200,000 acres of corn have been planted with them since their introduction. J. H. & O. N. B. & CO., Rockton, Winnebago co., Ill. 23 1/2

FIRST PREMIUM AT THE FAIRS OF 1855 and 1856.—Clocks for Churches, Court Houses, &c. (with illuminated dial similar to those on the City Hall New York, and State House, Philadelphia, if desired); also Regulators for Jewellers, and other kinds, reliable for time and durability. Address JOHN SHERRY, Oakland Works, Sag Harbor, N. Y. 23 10

NOTICE.—To Inventors, Patentees, and Scientific Gentlemen.—H. BOEHEMER would respectfully notify the above that he is prepared to manufacture and execute all orders for models or scientific instruments at the shortest notice and on most reasonable terms. H. BOEHEMER, 69 Fulton street, New York. 1*

SECOND-HAND MACHINERY FOR SALE.—One Plane will plane 10 ft. long, 3 ft. wide, 3 ft. high, cost \$850, price \$550, cash. One Planer, will plane 5 ft. long, 2 1/2 inches wide, 16 inches high, cost \$350, price, \$250, cash. One Engine Lathe, will turn 15 feet long swing 2 1/2 inches, weight rest, and chain feed, cost \$350, price \$225, cash. One Engine Lathe, will turn 8 feet long, swing 2 1/2 inches, weight rest, and chain feed, cost \$200, price \$150, cash. All of the above are in perfect order. GEO. S. LINCOLN & CO., Hartford, Ct. 23 1/2

NEW MACHINERY FOR SALE.—On hand, No. 0 Lathes, 8 ft. bed, swing 16 inches, weight rest, price \$250; No. 1, 10 ft. bed, swing 20 inches, gib'd rest, price \$315; No. 2, 14 ft. bed, swing 30 inches, gib'd rest, price \$425. All of the above are Screw Cutting Engines with rack and screw feed combined. Milling Machines for grinding all sizes, for \$32, and \$42. All of the above are warranted first-class work. GEO. S. LINCOLN & CO., Hartford, Ct. 23 1/2

MECHANICS' FAIR at Washington City.—The third exhibition of the Metropolitan Mechanics' Institute will open on Monday, 2d March. Contributions for exhibition are solicited from all parts of the Union. Circulars may be had at the office of the American Institute, and of the Superintendent, Chas. F. Stansbury, Esq. H. JANNEY, Financial Secretary. 21 2

J. R. STAFFORD'S FAMILY RECIPT BOOK, contains 150 Family Receipts, many of which are new, and all of which are practical, besides much valuable information for mechanics and others. The above book will be sent free of postage on receipt of Ten cents or stamps, by J. R. STAFFORD, Practical Chemist, No. 16 State st., New York. 18*

24 HIGHLY FINISHED ANATOMICAL ENGRAVINGS of the Human Body, illustrating the Brain, Throat, Bronchial Tubes, Lungs, Heart and Great Arteries.—Veins.—All of the Muscles and Joints, &c., &c. These engravings are upon a chart, 22 by 30 inches, which is attached to and makes a part of J. R. Stafford's Family Receipt Book. The book and chart will be sent free of postage on receipt of Ten cents or stamps, by J. R. STAFFORD, Practical Chemist, No. 16 State st., New York. 21 8*

INVENTIONS, DISCOVERIES AND INFORMATION which, in the opinion of the London Society of Arts are now required by the public. This list which contains 7 subjects, embraces wants in many of the mechanical arts. The list and explanation occupies a portion of three pages of J. R. Stafford's Family Receipt Book, which book will be sent free of postage on receipt of Ten cents or stamps, by J. R. STAFFORD, Practical Chemist, 16 State st., New York. 21 8*

INDELIBLE INK WANTED.—JOHN EWEN, of Cincinnati, Ohio, wishes to obtain a recipe for making Indelible Printing Ink to be used with type for marking clothing, and would pay liberally for it. 21 3*

SOUTHERN MACHINERY DEPOT.—Number 63 Masazno st., New Orleans. Agencies and consignments of machines adapted to the southern wants respectfully solicited. D. C. LOWER. 20 7*

CRIDGE & WADSWORTH'S IMPROVED Oscillating Steam Engine. Patented December 12th, 1854. After a thorough practical test for about two years of the above improvement, our success warrants us in inviting the close examination into its reputation in our own locality, and the great popularity of our engines in the most advanced and intelligent competition. To engine builders and capitalists we present the following considerations. An engine unsurpassed for durability, compactness, and simplicity, cutting off the steam close to each end of the cylinder, by means of a slide pipe, adjustable by set screws, securing a perfectly steam-tight valve with little or no friction or pressure, combining all the advantages of a double slide valve engine, and at the same time dispensing with all cams, cam-rods, cross-heads, rock-shafts, slide-valves, etc., saving their cost of construction and necessary waste of power in running. And finally, we present an improvement (applicable to all cylinder engines) which enables the manufacturer to construct them at one half the cost of any other engine of the same value. This last consideration commends it to the immediate and earnest attention of all persons interested or engaged in manufacturing engines. Believing that the improvement is destined to revolutionize this branch of manufacture, we have decided upon selling such a number of shop rights as will introduce it into general use, and at the same time secure the persons purchasing again a free and open competition with each other, and on such terms as will bring it within the reach of all in moderate circumstances. Letters of inquiry in regard to terms, addressed to the undersigned, will meet with prompt attention. For explanations see No. 11, Vol. 12, Sci. Am. CRIDGE, WADSWORTH & CO., Pittsburg, Pa. 16 6

ENGRAVING ON WOOD AND MECHANICAL DRAWING, by RICHARD TEN EYCK, Jr., 123 Fulton street, N. Y., Engraver to the Scientific American. 16 1/2

COMMERCIAL AGENTS, able and honest Men from N. England or N. York. A. W. Harrison, Phila. 16 13*

MACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufactured of vulcanized rubber is established. Every belt will be warranted superior to leather, at one-third less price. The steam packing is made in every variety, and warranted to stand 3000 degrees of heat. The hose never needs oiling, and is warranted to stand any required pressure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be obtained by mail or otherwise, at our warehouse, New York Belting and Packing Co., JOHN H. CHEEVER, Treasurer, No. 6 Bay street, N. Y. 22 1/2

A. & J. T. PEERS' Central Depot for the sale of patent rights, patented articles, &c., No. 12 Broadway, New York. 22 2*

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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 vessel 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 Sainometer, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, Machinery Oil of the most approved kind, &c. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 1eowtf

THE BEST PLANING, TONGUEING, AND GROOVING MACHINE IN THE WORLD.—Patented November 21st, 1851, and November 13th, 1855. These patents were obtained for improvements upon the celebrated Woodworth Planing Machine, the patent for which expired Dec. 16, 1853. By the combination of these several inventions a machine is produced of unrivaled excellence. A Gold Medal for this invention was awarded by the Mass. Char. Mech. Ass., at their Exhibition of 1856. All machines warranted to give entire satisfaction, and to be superior to any other machines now in use. For further information address the patentees. JAMES A. WOODBURY, 29 7* No. Scollay's Building, Court st., Boston, Mass.

PATENT RIGHTS sold on commission by S. C. HILLS, 12 Platt st., New York, who has for sale the following: Clark's Water Feed and Indicator; Croley's Slitting Mill; Devlan, Wood & Hancock's Oil Saver; Creamer's Air Brake; Burnham's Suction and Force Pump; Van De Water's Water Wheel, &c. 20 1/2

NOTICE.—The subscriber is ready to contract for building steam saw mills, and warrant them to cut 1,000,000 feet of lumber in one year, with one up-and-down saw, and to make the dust and chips made by the saw make the steam to do it. Address, S. E. PATTERSON, Wilkesbarre, Pa. 20 4*

WOODWORTH'S PATENT PLANING MACHINES of every kind and all prices. A large assortment on hand; and I am prepared to construct any machine to order from ten days to two weeks, and guarantee each machine to be perfect in its construction, and give purchasers entire satisfaction. The patent has expired, and will not be renewed. I make this business exclusive, and manufacturing nothing but the Woodworth Machines, and for that reason can make a better article for less money; and with my fifteen years' experience I fully guarantee each machine to come up to what I am willing to recommend, that is, that each machine shall be more than equal to any other manufactured for the same price. JOHN H. LESTER, 5 Pearl st., Brooklyn, N. Y., three blocks above Fulton Ferry. 19 1/2

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BARREL MACHINERY, CROZIER'S PATENT.—This machinery was awarded a gold medal at the late Fair of the American Institute. One of these machines, driven by 1-horse power, and with the assistance of 20 men make an average of 600 barrels per day of 10 hours, as our factory in Oswego, N. Y. A portion of the machinery may be seen at Messrs. Leonard & Wilson's, 90 Beaver st., New York, to whom reference may be made. For machines and rights address, WELCH & CROZIER, Oswego, N. Y. 15 10*

JAMES O. MORSE & CO., 79 John street, N. Y. (between William and Gold streets.) Manufacturers and Dealers in all descriptions of Pipes for Steam, Gas, and Water, together with every variety of fittings for the same, Steam Boilers and Boilers, Stop Valves and Cocks, Steam Whistles, Oil Caps, Gate Cocks, Governor Valves, Steam and Water Gauges, Steam, Power, and Lift Pumps, Steam Apparatus for warming buildings, Gas Apparatus for towns and factories. 17 13

BUNYAN & HOSTETTER, of Seneca Falls, Seneca County, N. Y., are now prepared to fill orders for any or all sizes of Lewis' Improved Direct Acting Force Pump, the best pump in use. A full description of it may be found in the Scientific American of March 22d, 1856. Agents are also offered for sale by States or otherwise, R. & H. refer to J. T. Miller, Esq., P. M., Seneca Falls, N. Y. 13 12*

STOVE POLISH.—The best article of the kind yet invented for family use. Sold wholesale and retail at 1 John st., New York, by QUAKERMAN & SON. 12 1/2

30 HORSE STEAM ENGINE.—At the Crystal Palace, called the "Endeavor," the best engine ever exhibited by the American Institute; will be sold low if applied for immediately. S. C. HILLS, 12 Platt street, N. Y. 10 1/2

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LAP-WELDED IRON BOILER TUBES.—Prosser's Patent.—Every article necessary to drill the tube-plates, and set the tubes in the best manner. 18 1/2 TIOS. PROSSER & SON, 28 Platt st., N. Y.

50 STEAM ENGINE.—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash. WM BURDON, 102 Front st., Brooklyn. 14 1/2

GOLD QUARTZ MILLS of the most improved construction; will crush more quartz and do it finer than any machine now in use, and costs much less. WM BURDON, 102 Front st., Brooklyn. 14 1/2

OIL! OIL! OIL!—For railroad, steamers, and for machinery and burning.—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, 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 and cheaper than any other, and the only oil that is in all cases reliable and will not gum. The Scientific American, after several tests, pronounced it "superior to any other they have ever used for machinery." For sale only by the inventor and manufacturer. F. S. PEASE, 61 Main st., Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe. 11 1/2

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 the N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, Office for sale of rights at 27 State street, Boston, and Lowell, Mass. 45 6m*

NEW HAVEN MFG. CO.—Machinists' Tools, Iron Lathes, Gear Cutters &c., on hand and finishing. These Tools are of superior quality, and are sold low for cash or approved paper. For giving full description and prices, address, "New Haven Manufacturing Co., New Haven, Conn. 14 1/2

HARRISON'S 30 INCH GRAIN MILLS.—Latest Patent.—A supply constantly on hand. Price \$200. Address New Haven Manufacturing Co., New Haven, Conn. 14 1/2

BOILER INCrustATIONS PREVENTED.—A simple and cheap condenser manufactured by Wm. Burdon, 102 Front st., Brooklyn, will take every particle of lime or salt out of the water, rendering it as pure as Croton, before entering the boiler. Persons in want of such machines will please state what the bore and stroke of the engines are, and what kind of water is to be used. 14 1/2