

TO CORRESPONDENTS.

"W. W. E., of N. Y."—Charles Hutchinson, of Waterloo, N. Y., has a patent for a machine to split and dress staves from the block; his machine is good. There is machinery in operation at Syracuse, N. Y., for splitting hoops and dressing them, also for barrel staves. If you write to Mr. Hutchinson, in Waterloo, he will give you the information. The sawed staves, we believe, are made at Lockport by a Mr. Smith, but we are not positive about this.

"J. J. H., of S. C."—We do not see any patentable point in your wheel. Its construction is the same as many others. The mode of making the shute is not patentable.

"D. V., of Ohio."—Yes, it appears that you have hit upon the very principle of Dimpfel, although your arrangement is a little different. It is not possible to tell but your feeder may be a very superior one, but you know that quite a number have been invented.

"R. M. A., of Conn."—It is not possible to know when or who makes applications for a patent—this is done secretly,—the Patent office alone knows. The cost for you we could not tell, till we saw the model—a loom is difficult to draw and describe in all its arrangements.

"H. G. P., of N. Y."—There has always been objections to rack and cog gearing, as crank substitutes. There is the same plan nearly as yours in "Stewart's Anecdotes of the Steam Engine."

"J. W. A., of L."—The use of Stirratt or Whitelaw's wheel, for a rotary engine, has been tried, but it is not so good as a cylinder engine. You can use the wheel freely.

"D. A. L., of Ohio."—We do not know whether stone ware is employed for pump pipes or not, but it is extensively used for water pipes in some places.

"H. H. E., of Pa."—We have been told that 1 part of litharge, 1 of black lead, 1/4 of ground alum, some whitening or chalk, mixed with oil till all are in a proper consistency, makes a good cement for your purpose; we would add a little salomonic along with the ingredients stated, say the same quantity as the alum.

"A. C., of Conn."—It is not possible for us to say whether your invention would be profitable or not; it appears to be new and good, therefore patentable. The article contains some new ideas, and will soon appear.

"A. W., of Ohio."—Do not try the circular bellows for an air pump; it will not answer; it cannot be made tight enough in the packing.

"B. M., of Ill."—We know of no grass cutting machine in use, but there is McCormick's and other Illinois reapers. The cheapest hay press is Brown's, which has been illustrated in our columns.

"H. S., of Ill."—There is Stiven's eccentric pump, which is a good one; we know nothing of the Chinese one. See advertisement in our last volume.

"L. S. H., of Me."—Your engine is a dead waste: the power is not in the size of the boiler, but the quantity of steam generated in a given time. The pressure of the steam on the square inch, and the velocity, multiplied, then divided by 33,000, will give the power. Get a good small engine—Wylie's for instance.

"E. C. A. C., of Ill."—Your subscription is now paid to No. 26 Vol. 7. We will try to furnish you with the numbers you lack to complete your volumes if you will inform us what numbers they are. We have changed the direction of Mr. R.'s paper as you directed.

"J. F. G., of Mass."—The best work on draughting for a new beginner is Minifie's, price three dollars—may be had at this office. The cost for binding your volumes will be 75 cts. each.

"J. C. B., of N. H."—A steamer leaves this port for Charleston every Saturday afternoon at 4 o'clock; Cabin fare \$25, steerage \$8.

"J. H. G., of N. C."—Our fees for making the necessary drawings of your invention preparing specification and superintending your application would be \$20. The patent fee is \$30 in all cases.

"G. W. L., of Pa."—We should charge nothing for the missing numbers. We cannot supply any in Vols. 1, 2 and 3, and have but about 40 numbers in volume 4. We thank you for your interest in extending the circulation of the Sci. Am.

"B. F. C., of Miss."—If your type setting machine will accomplish as much work as you represent it will and can be made so simple as not to cost over 10 or 20 dollars, it is certainly worth securing by patent. Please forward a drawing of your machine and if possible send us a model of it, for if it will accomplish half the work you say, you will have no trouble in introducing your invention at once.

"Engineer."—Yours has been received.

"L. P. S. of Conn."—Your plan for varying the blow is new and patentable, we believe, but you know there are other plans for varying the blow, likewise. We don't advise you to apply for a patent. Nasmyth's steam-hammer would answer you exactly, for the blow by it is vertical and can be regulated at will. Lewis Kiek's steam-hammer could also be regulated in its blows at will.

Money received on account of Patent Office business, since Oct. 1, 1850:—

J. L. P., of Mass., \$25; C. B. De La V., of N. J., \$11; E. G., of Mass., \$20; J. G., of R. I., \$30; J. B. McC., of N. J., \$20; W. S. K., of Conn., \$20; H. F., of Ind., \$5.

Bound Vol. 5, Now Ready.

Those desiring Volume 5 of the Scientific American are informed that we are able to furnish a few complete volumes, bound, at \$2.75 each. Also, we can send by mail sets complete, minus No. 1 for \$2. Volume 4, incomplete sets, comprising about 35 Nos., will be forwarded by mail on receipt of \$1.

Patent Claims.

Persons desiring the claims of any invention which has been patented within fourteen years can obtain a copy by addressing a letter to this office; stating the name of the patentee, and the year the patent was granted (adding the month of the year when convenient), and enclosing one dollar as fees for copying.

Important Notice to us!

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 give much time and trouble, to which we are subjected in replying, when the numbers called for cannot be supplied.

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Buildings, Railroad Stations, &c.—The subscriber having made important improvements in the apparatus for counteracting the influence of the changes of temperature upon the pendulum, and in the retaining power, together with a most precise method of adjusting the pendulum to correct time, are prepared to furnish clocks superior to any made in the United States, both for accuracy of time-keeping and durability. They speak with confidence, from having tested their performance for several years. All clocks ordered and not proving satisfactory, may be rejected. Address SHERREY & BYRAM, Oakland Works, Sag Harbor, L. I.
 Mr. Byram has established his reputation as one of the first clock makers in the world.—Scientific American. 4 3meow*

FOWLERS & WELLS, Phrenologists and Publishers, Clinton Hall, 131 Nassau st., New York—Office of the Water Cure and Phrenological Journals. Professional examinations day and evening. 3 6m

COTTON LOOMS.—100 second-hand 4-4, have been well used but a short time, modern pattern, and as good as new; they will be sold low to close a concern, and can be seen at any time upon application to S. C. HILLS, Machinery Agent, 12 Platt st., N. Y. Letters must be post-paid 3 4

TO IRON FOUNDERS, &c.—Fine ground and bolted Sea Coal, to mix with moulding sand, an approved article ground from selected lump; Charcoal Foundry Blacking; Bolted Lehigh, Soapstone, Black Lead Foundry Facing; also Fire Clay, and Iron and Brass Founder's superior Moulding Sand, in barrels, for sale by G. O. ROBERTSON, New York City Office 4 Liberty Place, Maiden Lane, near the Post Office. 3 4*

DR. STEWART'S SAFETY FLUID LAMP—Rights for any of the States, or for the whole United States, for this valuable Lamp, patented July, 1850, are now offered for sale on the most liberal terms. Land, or good trade, will be taken in part payment. Dr. FRANK STEWART, Swaim's Laboratory, Seventh st., below Chestnut, Phila. 3 4

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Boiler Tubes—Diameter, Number and Length of each at date:—		
Inches.	In Stock.	Afloat.
1 1/4	999	7-0
1 1/2	164	10-6
1 3/4	25	10-6
2	215	10-0
2	1052	12-0
2	349	14-0
2	1221	15-0
2	77	4-9
2 1/4	758	15-0
2 1/2	544	15-0
2 3/4	514	15-0
3	255	15-0
4	4	15-0
5	1	15-0
6	14	15-0

THOS. PROSSER & SON, Patentees, October 1, 1850. 28 Platt st., New York.

Patent Office.

128 FULTON ST. NOTICE TO INVENTORS.—Inventors and others requiring protection by United States Letters Patent, are informed that all business relating to the procurement of letters patent, or filing caveats, is transacted at the Scientific American Office, with the utmost economy and despatch. Drawings of all kinds executed on the most reasonable terms. Messrs. Munn & Co. can be consulted at all times in regard to Patent business, at their office, and such advice rendered as will enable inventors to adopt the safest means for securing their rights. Arrangements have been made with Messrs. Barlow and Payne, Patent Attorneys, in London, for procuring Letters Patent in Great Britain and France, with great facility and despatch. MUNN & CO., 128 Fultonstreet, New York.

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WE would remind our numerous friends throughout the country, that we still continue to conduct the business of procuring Letters Patent for new inventions in this and all foreign countries, where the right is recognized. Since making arrangements with those eminent attorneys, Messrs. Barlow, Payne & Parken, Editors of the London Patent Journal, we have secured and managed through them, several foreign applications, with the utmost economy and facility. Inventors and others, desiring advice upon this subject, can correspond confidentially with the Editors of this paper.

WOODWORTH'S PATENT PLANING

Machine 1850 to '56.—Decisions had the present year in the U. S. Courts, in every part of the Union, having fully and finally established all the claims of the Woodworth Patent, the subscriber is prepared to dispose of rights to use the machine in the Counties of Queens, Richmond, Rockland, Suffolk, Westchester, and the other unoccupied Counties and Towns in the State of New York and in Northern Pennsylvania. Ninety-nine hundredths of all the planed lumber used in our large cities and towns continue to be dressed with Woodworth's machines, which may be seen in constant operation in the steam planing mills in New York, Brooklyn, Williamsburgh, Albany, Troy, Utica, Rome, Syracuse, Rochester, Lockport, Buffalo, Elmira, Gibson, Owego, Ithaca, Binghamton, &c. &c. Persons holding licenses from the subscriber are protected by him against infringements on their rights. JOHN GIBSON, 4 5* Planing Mills, Albany, N. Y.

DUPLICATES OF DRAWINGS.

One hundred or more copies of the drawings required by the Patent Office, can be furnished at short notice, and upon reasonable terms, by MUNN & CO., Scientific American Office, who have made arrangements to duplicate drawings of machinery and inventions, at prices varying from ten cents per copy, upwards.

PATENT METALIC OIL FOR MACHINERY.

Warranted not to gum. Manufactured under Cumberland Brothers patent (April 6th 1849), by C. E. de la Vergne & Co., Elizabethport, N. J. Transparent metallic, adapted to light bearings, spindles, &c., will last a quarter longer than pure sperm. For burning will be found superior. Fluid White Metallic, of the consistence of cream, to be used without wick and tube, adapted to the oiling of engines, shaftings, &c. will last twice as long as pure sperm oil. Hard White Metallic, to be used instead of tallow, will last three times as long; when used in cylinders, the packing must be renewed. Blue Metallic grease, prepared for greasing the inside of boilers when thoroughly cleaned, that the scale which afterwards collects may be removed with one third the usual time and expense. It is also adapted to the greasing of cog wheels; and for the axles of vehicles it has been found to last more than four times as long as any grease ever used for that purpose. KENNEDY & GELSTON, Sole Agents, 50 3m No. 4 Pine st. New York.

12 POWER PLANING MACHINES.

SCRANTON & PARSHLEY, New Haven, Conn., have now finishing off 12 power Planers that will plane 8 feet long, 27 inches wide and 24 inches high; these planers are of the first quality, are self-feeding every way; the table is worked by a rack and pinion; the bed is 12 feet long. With each planer there is a splining head and counter shaft, pulleys and hangers. They weigh about 4000 lbs.; the price, boxed and ready to ship, is \$625. Also 12 hand lathes, with back gear on iron shears, and legs 7 feet long, swing 20 inches, about 700 lbs. weight—\$75. These lathes are of the first quality. 1tf

PATENT ROCK DRILLING MACHINE

The celebrated Rock Drilling Machine, invented by Messrs. Foster & Bailey, of this city, and described with an engraving on page 153 of Vol. 3 of the Scientific American; is now offered for sale in rights to suit purchasers. The machine has been thoroughly tested upon all kinds of rock, and its superiority over every other drilling machine that has yet been invented, must be apparent to every one who has had experience in using machines for this purpose. A silver medal was awarded to the inventors by the American Institute, and while it was exhibiting at the Fair for a few days, it attracted crowds to witness its simple but successful operation. A model of the machine, with the "Silver Medal," may be seen at the Scientific American Office, and any letters of enquiry concerning the purchase of rights may be addressed, (post-paid) to MUNN & CO. P. S.—A valid patent is secured on the above, and the public are cautioned not to infringe the claims. Patent Rights for sale for any State, county, or section, and working drawings furnished to the purchaser. 47tf

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For rent or sale.—A factory building in New Brighton, Beaver Co., suitable for woollen or cotton factory, 40 by 96 feet, the stories high, with plenty of water power. The driving power is now being made new, and if applied for soon, can be made to suit the renter. Apply to A. W. TOWNSEND, near the premises, or to J. W. GILL, Wheeling, Va. 3 5*

ALCOTT'S CONCENTRIC LATHES.

We have on hand a few of these celebrated Lathes, which the inventor informs us will execute superior work at the following rates:— Windsor Chair Legs and Pillars, 1000 per 11 hours. Rods and Rounds, 2000; Hoe Handles, 800; Fork Handles, 500; Broom Handles, 150, per 11 hours. This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch, and work as smoothly as on a straight line, and does excellent work. Sold without frames for the low price of \$25—boxed and shipped, with directions for setting up. Address, (post paid). MUNN & CO., 14tf At this Office

CARD.

The undersigned begs leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers, and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubs) and Swiss Files and Tools, also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English style, which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBENMANN, Importer of Watchmakers' and Jewellers' Files and Tools, and manufacturer of Mathematical Instruments, 154 Fulton street. 1 3m.

TO PAINTERS AND OTHERS.

American Anatomic Drier, Electro Chemical graining color, Electro Negative gold size, and Chemical Oil Stove Polish. The Drier, improves in quality, by age—is adapted to all kinds of paints, and also to Printers' inks and colors. The above articles are compounded upon known chemical laws, and are submitted to the public without further comment. Manufactured and sold wholesale and retail at 114 John st., New York, and Flushing, L. I. N. Y., by QUARTERMAN & SON, Painters and Chemists 48tf

COTTON, WOOLEN AND SILK MANUFACTURERS' DEPOT.

ANDREWS & JESSUP, No. 70 Pine st., N. Y., dealers in articles for the use of Cotton, Woolen and silk manufacturers, and agents for the sale of shearing, carding, burring, napping, wool-picking, flock-cutting and waste machines, regulators, satinet and jean warps, &c. Weavers' reeds and heddles, bobbins and spools, of every description, made to order. Sperm, lard and olive oils and oil soap. 1tf

WOOD'S PATENT SHINGLE MACHINES.

These excellent machines, illustrated and described in No. 2, Vol. 5, Scientific American, are offered for sale in Town, County and State Rights, or by single machines. There are three sizes, the first cuts an 18 inch shingle, price, \$100; 2nd cut, 24 inch, price \$110; 3rd, 28 inch, \$120. Orders addressed to J. D. JOHNSON, Redding Ridge, Conn., or to Munn & Co., "Sci. Am." Office, will meet prompt attention. The above machine can be seen in successful operation at P. R. Roach's mills, No. 138 Bank st., this city. 5tf

MACHINERY.—S. C. HILLS, No. 12 Platt

Street, N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Kees's, Von Schmidt's, and other Pumps, Johnson's Shaping machines, Woodworth's, Daniel's and Law's Planing machines, Dick's Presses, Punches, and Shears; Morticing and Tenoning Machines, Belling, 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. 46tf

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For sale, the right to use this justly celebrated labor-saving machine in the following States, viz. Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 304 Broadway. 5 1tf

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From the increased facilities of the subscriber, he is now prepared to furnish, at a reduced price, the most effectual, powerful, durable and yet simple Lift and Force Pump in use. For a house pump, factories, breweries, railroad stations, or any other purpose where a constant stream of water is required, they cannot be surpassed. The public are cautioned against an article purporting to be Brush's Pump, but are invited to call at or address 83 Pike Slip, and get the original. J. A. BRUSH, Inventor. 40 3m*

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We have made arrangements which will enable us to supply all kinds of French Burr, Holland and Eoopus Mill Stones of the best material and manufacture, at the lowest prices. Burr Mill Stones made to order and warranted to be of the best quality; Burr Blocks for sale.—Orders addressed to MUNN & CO., post-paid, at this Office, will meet with prompt attention. 41tf

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No. 380 Harrison avenue, Boston, manufacture at short notice, Locomotive and Stationary Steam Engines, boilers, iron, copper, composition and brass castings; copper work; Van Kuren railroad car and truck wheels, and all kind of railroad machinery. DANIEL F. CHILD, Treasurer Boston Locomotive Works. 1tf

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