

not received an acknowledgment by mail, and their initials are not to be found in this list, they will please notify us immediately, stating the amount and how it was sent, whether by mail or express.

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office, from Wednesday, Dec. 16, to Wednesday Dec. 23, 1864:—

J. O. H., of Pa. (2 cases); A. S., of N. Y.; A. C., of N. Y.; W. M. D., of N. Y.; V. H. H., of N. Y.; C. H. H., of N. Y.; J. P. B., of Ill. (2 cases); M. B., of Ky.; P. B., of N. Y.; B. E., of N. Y.; W. M. K., of N. Y.; E. C. C., of Ill.; J. W. P., of Mass.; D. & K., of Cal.; A. L. S., of Conn.; D. E. H., of Mass.; A. & H., of Conn.; A. B. G., of N. Y.; F. C., of Mass.; W. H., of N. Y.; W. L., of N. Y.; L. S., of N. Y.; A. A. B., of N. Y.; B. & G., of Conn.; G. O. W., of Mass.; F. McC., of Conn.; D. E. H., of Mass.; G. R., of Ky.; C. W., of Mich.

TO OUR READERS.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the patentee and date of patent, when known, and enclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

INVARIABLE RULE.—It is an established rule of this office to stop sending the paper when the time for which it was pre-paid has expired.

Models are required to accompany applications for Patents under the new law, the same as formerly, except on design patents, when two good drawings are all that are required to accompany the petition, specification and oath, except the Government fee.

RECEIPTS.—When money is paid at the office for subscriptions, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona-fide acknowledgement of our reception of their funds.

RATES OF ADVERTISING.

TWENTY-FIVE CENTS per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, we will explain that ten words average one line. Engravings will not be admitted into our advertising columns, and, as heretofore, the publishers reserve to themselves the right to reject any advertisement they may deem objectionable.

BISULPHIDE OF CARBON, CHEMICALLY PURE, for sale in quantities from one to fifty carboys. Address DUBOIS D. PARMELEE, Chemist, 22 East 41st street, New York. 12\*

PATENT NIPPERS AND CLINCHER.—THE SUBSCRIBER wishes to dispose of his whole right and title to his patent nippers and clincher, which was illustrated in No. 26, Vol. IX, of the "Scientific American." State, county, sheep, or the entire right for sale cheap. Address E. WARREN, Marshall, Mich. 12

OVERMAN'S MANUFACTURE OF IRON.—OF THIS valuable book there now remains but a few copies. The Manufacture of Iron in all its various branches, including a description of Wood Cutting, Coal Digging, and the Burning of Charcoal and Coke, the Digging and Boasting of Iron Ore, the Building and Management of Blast Furnaces, Working by Charcoal, Coke or Anthracite, the Refining of Iron, and the Conversion of the Crude into Wrought Iron by Charcoal Forges and Puddling Furnaces; also a description of Forge Hammers, Rolling Mills, Blast Machines, Hot Blast, &c. To which is added an Essay on the Manufacture of Steel, by Frederick Overman. In one volume 8vo., 492 pages, illustrated by 150 wood engravings. Price \$6, by mail free of postage.

CONTEXTS.—Iron Ore, Fuel, Reviving of Iron, Manufacture of Wrought Iron, Forging and Rolling, Hot Blast, Waste Heat and Gas, Fire Brick and Refractory Stones, Motive Power, Manufacture of Steel, Appendix. Any of my Books sent by mail free of postage. My new catalogue of Practical and Scientific Books will be sent free of postage to any address. HENRY CAREY BAIRD, Industrial Publisher, 406 Walnut street, Philadelphia. 11

WANTED.—A CIVIL ENGINEER OF GOOD ADDRESS and business capacity, to be employed in soliciting orders for railroad stock. A liberal salary will be paid, and only those having the very highest qualifications and references need apply to Box 1457, Post-office, New York. 12\*

GIFTS FOR THE HOLIDAYS.—PARR'S TOOL Chests fitted with complete sets of tools, sharpened and set ready for use and packed in cases for shipping. Suitable for mechanics, amateurs, farmers and boys; prices from \$2 to \$35 each and containing from 8 to 92 tools, according to size. Shipped on receipt of price. Send for descriptive circular to the manufacturer, GEORGE PARR, Buffalo, N. Y. 26\*

FOR SALE.—AN UNPATENTED IMPROVEMENT ON modes of fastening chimneys on lamps. Address N. PORTER, Youngstown, N. Y. 1\*

PLATINA SHEET, WIRE, &C.—FOR ALL PURPOSES. Imported by SUTTON & RAYNOR, 748 Broadway, New York. 14e\*

FIRE ENGINE FOR SALE VERY CHEAP, SUITABLE for country, town or village, will throw a stream 180 feet. ALBERT POTTS, north-east corner of Third and Willow streets, Philadelphia, Pa. 14\*

FOR SALE CHEAP.—THIRTEEN PERFECT VOLUMES OF THE SCIENTIFIC AMERICAN, commencing in 1849, the three first volumes bound, the other ten not bound. Address GEO. B. WELLMAN, Cooperstown, Otsego county, N. Y. 12\*

SEALING OR COVERING HAMS.—THE UNDERSIGNED having received a patent for a new and improved method of sealing or covering hams, wishes to make it available to packers and curers, either by contract or sale of right. The advantages of this covering are noticed in No. 26, Vol. IX, of the "Scientific American." samples can be seen at the Packing Houses of J. A. Ameling & Son, New York, and at Leland & Mixer's, Chicago, Ill. to whom application can be made. H. A. AMELING, 532 Washington street, New York. 12\*

DREAMS.—THEIR SIGNIFICANCE, SPACE AND Time Annihilated, Poetry and Music in Sleep, Horrid Dreams and Happy Dreams.—Are Dreams Prophetic? Read Psychology; or The Science of the Soul, in Jan. Double No. "Phrenological Journal." Only 15c.; or \$1 50 a year. Address FOWLER & WELLS, 308 Broadway, New York. 12

BAIRD'S NEW CATALOGUE OF PRACTICAL AND SCIENTIFIC BOOKS is now ready, and will be sent free of postage to any address. Every reader of the "Scientific American" is particularly invited to send for one. It will be found of interest and importance to all practical men. HENRY CAREY BAIRD, Industrial Publisher, 406 Walnut street, Philadelphia.

THE NEW PATENTS.

No. 265 BROADWAY, NEW YORK.

TO THE PUBLIC.—PERMIT US TO CALL YOUR attention to important improvements in Fire and Burglar Proof Safes, recently patented by Walter K. Marvin, of our firm, and bearing the following dates:

First Patent, for improvement in filling for safes, Dec. 1st, 1863. Second Patent, for securing durability of both the lining and iron works of safes, Dec. 1st, 1863. The knowledge gained from over 20 years' experience as manufacturers and sellers of the two popular Safes, known as the "Plaster or Wilder Patent" and the "Alum Patent," enables us to construct a safe possessing the good qualities of each of these, while defects have been remedied which experience has proven to belong to both of them. The explanation is simple. We take dry calcined plaster of Paris and Alum (the latter being broken into small lumps), and thoroughly mix them.

We pack this mixture between the inner and outer cases, where it remains unchanged any number of years, until fire melts the alum (which contains a large quantity of water), and thus saturates the plaster, and forms the steam, which always preserves the contents of the safe. The plaster, by being wet, sets firmly and even; if the alum near the outside is entirely melted it forms cells which retain the precise shape of the lumps of alum, and even the filling or plaster keeps the safe as well filled as before the fire. This constitutes the first patent.

The second patent consists in coating the sides of the cases exposed to the flames with a heavy quality of a complete enamel, and thus rendering the joints hermetically tight.

Our safes, therefore, possess the following advantages: They combine the two most fireproof substances known. They are perfectly dry, and do not corrode the iron. They do not lose their fireproof qualities by age.

Locks are as superior in use. When it is remembered that nearly all the safes now in use are filled with plaster and water, or with alum and clay, the value of our improvement in obtaining perfect security from fire, non-liability to shrinkage of filling, so troublesome and dangerous in other modes, will be recognized.

We would call special attention to our "Steel Burglar-Proof Bank Safes and Specie Chests." As they are made of three, or five, or more thicknesses, as may be desired, and the steel is hardened beyond the temper of any drill, and the rivets are so arranged that they do not go through more than two plates, and consequently can not be punched in, we know that we can produce a safe that is impervious to fire, and is equally impervious to burglars. We make these of all sizes, from \$100 upwards, and they can be securely fastened in any of our fireproof safes.

We submit, from some of the highest authorities in the United States, the following testimony:

U. S. Assay Office, New York, Dec. 10th, 1863.

"Walter K. Marvin, Esq.:—Dear Sir:—I have submitted to careful examination the combination of materials lately patented by you as a non-conducting filling for Fireproof Safes, and I find them admirably adapted to resist fire, and the proof which I placed in your hands this day. Having long given my study to the improvement of Fire Safes, I can confidently say that I consider your new composition superior to all others of the kind that have come under my notice. Respectfully yours, JOHN TORREY."

"I have tested your fireproof filling thoroughly, and am satisfied that no other in use is equal to it. ALEXANDER H. EVERETT, Analytical and Consulting Chemist, New York College of Pharmacy, Dec. 4th, 1863."

"I regard your improved lining as superior to either the old plaster and water, or alum and clay filling. DUBOIS D. PARMELEE, M. D., Practical and Analytical Chemist, 22 East 41st street, New York, Dec. 1st, 1863."

"Having been long acquainted with the materials used and modes of filling Safes, I am prepared to express a highly favorable opinion of your invention, as fulfilling the required conditions, mechanically and chemically, and no mixture of superior qualities is known to me. A. A. HAYES, M. D., State Assayer, 16 Boylston street, Boston, Dec. 7th, 1863."

"And I consider yours the best combination of materials for fire proof filling with which I am acquainted. DUBOIS D. PARMELEE, M. D., Practical and Analytical Chemist, 24 Canal street, New York, Dec. 2, 1863."

We pledge ourselves to convince any one of the above facts who may favor us with a call. For more full information with regard to our Safes, please send for larger Circular. MARVIN & CO., Sole Manufacturers of Marvin's Patent Fire, Burglar and Damp Proof Safes, 265 Broadway, New York.

FOUNDRY AND PLOUGH MANUFACTORY FOR sale at Warrenville, Warren county, N. J., and for the following reasons is valuable—being located in a healthy and rich agricultural district, and being a long established and doing a large business and perfectly safe and profitable. The fixtures and machinery complete and in first-rate order. Lot containing five acres and in a high state of cultivation, on which is a commodious dwelling, nearly new, a new barn 58 by 26 feet, foundry 63 by 40 and other out-buildings; fruit, water, &c. Stock and fixtures consist of plow and other castings, plows and other agricultural implements (no old or unsalable stock on hand), a good steam engine and boiler (boiler new), patterns, flasks, saws, &c. All will be sold together or the lot with the one half interest in stock and fixtures on liberal terms. An active party, with some means and credit can be placed at once in a good position and without risk. Address Wm. F. WIRE, Belvidere, N. J. 11\*

PATENT CALIPERS.—THE SELF-ADJUSTING CALIPERS illustrated in the "Scientific American" of Aug. 8, 1863 (see engraving in that number) are manufactured by the patentees at Worcester, Mass., and are now ready for delivery. Samples sent (post-paid) by mail, on receipt of 75 cents in currency; usual discount made to the trade. Agents liberally dealt with. Address KIMBALL & TALBOT, Worcester, Mass. 14\*

NATIONAL OFFICE FOR THE SALE OF PATENT RIGHTS, L. C. HOOPER & CO., 229 Broadway (Room 26), New York City. We are the promptest organization of the kind in the United States, affording the greatest facilities through advertisements and local and traveling agencies. All patentees, therefore, desiring to dispose of their inventions speedily are invited to call upon or address us. Reliable agents wanted everywhere. Enclose stamp for return postage and circular. Refer to Hon. Eli Thayer, New York, Hon. Peter G. Washington, New York, Hon. Horatio King, Washington City. 14\*

BWARE OF THE NORTH-EASTER.—BROWN'S metallic weather strips and window bands totally exclude wind, rain, snow, and dust from the crevices of doors and windows without interfering with the free use of the same for ventilating purposes. They save one-half the fuel, stop the rattling of the sashes, and are deadeners of sound from the street or otherwise. For circulars with references to thousands of our most respectable citizens, address THE PATENT METALLIC WEATHER STRIP CO., No. 64 Broadway, Corner of Bleeker street, over the Manhattan Savings Bank. 14\*

A PRETTY PRESENT.—SEND TO YOUR NEAREST dearest and most valued friend, the "Illustrated Phrenological Journal" for 1864. It would be highly prized, and cost only \$1 50. FOWLER & WELLS, New York. 12

LICENCES TO MANUFACTURE.—ARRANGEMENTS will be made with machinery to all who manufacture Reid's Patent Quadruple Action Pump, Blower, Exhaustion or Steam Engine. A pump ten inches diameter and ten inches long, keeps a three inch pipe running full, raised two feet, by one man power, at the rate of 200 gallons per minute. Address J. WYATT REID, the Patentee, 24 Old Slip, New York. 11\*

A BEAUTIFUL, USEFUL AND PERPETUAL PRESENT.—The "Phrenological Journal and Life Illustrated," for 1864. Published the first of each month, at \$1 50 a year. This year's Vol. contained more than 300 illustrations, and is one of the most entertaining works now published. Order it year for your nearest, dearest and most valued friend. Sent regularly to any address by FOWLER & WELLS, No. 308 Broadway, New York. 12

"TIP TOP" THE JAN. PICTORIAL DOUBLE Number "Phrenological Journal" is the best ever issued. It has forty portraits and other engravings, including Maj. Gen. Banks, Lord Lyndhurst and many beautiful women. Only 15c.; or \$1 50 a year. New Yc. 12\*

DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C., Dec. 15, 1863. To the Growers and Manufacturers of Flax and Hemp:

THE COMMISSIONERS APPOINTED BY THIS DEPARTMENT, consisting of Hon. J. K. Morehead, of Pennsylvania, William M. Bailey, of Rhode Island, and John A. Warder, of Ohio, to consider the following appropriation made by the last Congress, viz: "For investigations to test the practicality of cultivating and preparing flax and hemp as a substitute for cotton, twenty thousand dollars."

Having met, and after several days' investigation, believing that a further and fuller notice of their investigations might produce valuable results, adjourned to meet again on Wednesday the 24th day of February next, at 12 o'clock, M.

They request all interested in the distribution of this appropriation, or anxious to develop the subject for the public good, to send to this Department, on or before that day, samples of the hemp and flax in the different stages of preparation; of the fibers and fabrics prepared by them, accompanied by statements of the various processes used, and the cost of production in each case; also, descriptions of the kind and cost of machinery used, where made, &c., together with any and all information that may be useful to the Commission.

This information is necessary before an intelligent distribution of the appropriation can be made. ISAAC NEWTON, Commissioner.

UNITED STATES MILITARY RAILROAD OFFICE, No. 250 G street, Washington, D. C., December 19, 1863.

LOCOMOTIVE ENGINES AND RAILROAD IRON FOR SALE

I will sell at public auction, at the Orange and Alexandria Railroad Depot, in Alexandria, Va., on WEDNESDAY, the 13th day of January next:

- Ten second-hand Locomotive Engines, 4 feet 8 1/2 inches gage. About 1,000 tons of old Rails, T and U pattern. About 300 tons of old Car Wheels. About 200 tons of Car Axles. About 20 tons of Wrought Scrap Iron. About 200 tons of Cast. A lot of Steel Springs, Sheet Iron, &c. Sale to commence at 10 A. M. Terms Cash in Government Funds.

H. L. ROBINSON, Captain and A. Q. M.

LORD LYNDHURST, HIS PORTRAIT, CHARACTER, and Biography; Maj.-Gen. Banks, W. H. Wells, Esq., the model teacher. Human Life—savage and civilized contrasted. Giving Thanks—by Bishop Potter, Revs. H. W. Beecher, E. H. Chapin, Dr. Tyng, Dr. Thompson, Revs. Isaacs, Silver, Burlington, Ridgeway, Alger and A. R. Thompson, in Jan. Double No. "Phrenological Journal," only 15c.; or \$1 50 a year. FOWLER & WELLS, New York. 12

\$200, \$150, \$100, \$50 PREMIUMS.—TO EDITORS, Ladies and Others. I will pay the above-named amounts for the best four articles on either my Soap, Saleratus, or Concentrated Potash. The article must state the writer's experience in using the goods, and must be not less than ten lines, and be published in the editorial columns of any good family newspaper. Any party wishing to compete for the above, and desiring further information, may address the undersigned. Each person writing and publishing a notice, as above, will mail a marked copy of the paper containing the notice to me, and also write me by mail, giving full address. The Premiums will be awarded on the fourth day of July, 1864. B. T. BABBITT, 64 to 74 Washington street, New York. 12\*

NEW HAVEN, CONN., Oct. 22, 1863.

To B. T. BABBITT: Sir:—Observing your Premium advertisement in the SCIENTIFIC AMERICAN, I concluded to state, in a few words, what I knew of the merits of your soap, having used it enough to conscientiously say that it is all that it is represented to be.

I wish to ask you if it is necessary to write my name in full under the article, should I put it in one of the New Haven papers. If not, please send me the name of the paper in the next page, if of no account, please say so, and that will end the matter; if it is acceptable, it will appear in the paper immediately. J. D. W.

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he world a man who cares to save

etimes the toil of womankind.

A man with an ingenious mind

estows a real gift to us;

ecause experience proves it thus.

n every way its claims to aid,

here's none but true assertions made.

hus to affirm the truth we're bold,

ince using this we are not sold;

aving our time and patience too—

ur friends will find this statement true.

single trial, and you can

ceive that BABBITT is the man.

J. D. W.

BEAUTIFUL WOMEN.—FOR PORTRAITS, WITH the Secret of Beauty, and "How to be Beautiful," see the "Phrenological Journal." The January Double No. has more than 40 Portraits. Only 15c. by post; or \$1 50 a year. New Vol. FOWLER & WELLS, 308 Broadway, New York. 12

AMES' IRON WORKS, OSWEGO, N. Y., SOLE MANUFACTURERS OF EYER'S PATENT FORGE HAMMER. This hammer is adapted to both heavy and light forgings; the force of the blow being entirely at the will of the operator, and for all forgings under six inches, both round or square, is the best hammer now in use, and requires but one-half the power used by every other hammer to do the same work. For an engraving and description of this hammer, see page 1, Vol. V. (new series) of the SCIENTIFIC AMERICAN; some valuable improvements have, however, been since made. All communications should be addressed to Ames Iron Works, Oswego, N. Y.

These hammers may be seen in operation at the Allaire, Neptune, Secor, Delamater, Fletcher & Harrison, Duncan & Crampton, Anderson & McLaren, Duhurst & Emerson, Charles T. Porter, Hudson River Railroad Car Shop, the Novelty Iron Works, all in New York City; Joseph Colwell, Jersey City; Wm. Hite, Newark, N. J.; Providence (R. I.) Tool Co.; Whiting & Wilcox, Kaighn's Point, Phila.; Mallory & Cottrell, Mystic, Conn.; J. Dillon, Rondout; James Horner & Co., Sing Sing; Henry Esler & Co., Brooklyn; James B. Eads, St. Louis, Mo.; Franklin Iron Works, Central Railroad Shop, Albany; Burlington, Quincy & Chicago Railroad Shop, C. P. & A. Railroad Shop, Cleveland, Ohio; Buffalo & Erie Railroad Shop, at Buffalo; E. P. Allis & Co., Milwaukee, Wis.; Shipman & Son, Springfield, Center N. Y.; Sweet, Brothers & Co., Syracuse, N. Y.; and Ames Iron Works Oswego, N. Y. 1\*

WILD MEN; AND BEAST CHILDREN NURSED BY the Wolf and other animals. Pursued the Fur Trade, Hunting and Trapping, Human Fossils, Skeletons, How Miss K. got a Husband, Must marry or Fight, His Choice and the results, in the Double No. "Phrenological Journal," for January. 15c.; or \$1 50 a year. A new Vol. Address FOWLER & WELLS, 308 Broadway, New York. 12

HIGHLY IMPORTANT TO ALL INTERESTED IN steam, especially those having boilers which will not generate a sufficient power of the same. By a very simple durable attachment the evaporative power of boilers (marine or stationary) may be doubled even quadrupled, and 12 to 15 pounds of water evaporized to each pound of coal. Cost and space one-fifth to one-tenth of boiler surface. For plans and proof address J. MAUNTON, care of J. K. SIMPSON, Engineer, Cooper Institute. 12\*