### Examples for the Ladies.

Mrs. E. J. Stout, Elkader, Iowa, besides doing all the housework for a amily of four persons, made last year, with a Wheeler & Wilson Machine, one hundred and fifty fashionable dresses, hemmed over 2000 yards of biased ruffing, and made quite a number of under-garments. This is about her average work a year in all kinds of general sewing for seven years, with no repairs to her machine.

Burnett's Cocoaine is not greasy or sticky. As a hair dressing, it stands peerless and alone.

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# NEW BOOKS AND PUBLICATIONS.

A COMPENDIOUS GRAMMAR OF THE GREEK LANGUAGE. By Alpheus Crosby, Professor Emeritus of the Greek Language and Literature in Dartmouth College. Woolworth, Ainsworth & Co., 51, 53, and 55 John Street, New York; 111 State Street, Chicago.

This is an abridgement of the well known and long highly appreciated Greek Grammar by the same author, which has now reached its forty-fourth edition. The abridgement is, however, a sufficient vale mecum for the student in his progress through school and college. The intention has been to compress, as much as possible, the larger work, to form a portable simple grammar for the beginner, yet sufficiently comprehensive to accompany him throughout a whole course of Greek study as ordinarily pursued.

MAGNETISM AND ELECTRICITY. By William Allen Miller, M.D., LL.D., Professor of Chemistry in King's College, London, etc. Corrected from the Fourth London Edition. New York: John Wiley & Son, 15 Astor Place. This work is identical with the portion of Miller's excellent work on

Chemical Physics,"from page 313 on ward to the end of the book. Some tables, scarcely germane to the subject matter of the reprint, are added. The book forms a good manual of magnetism and electricity up to the date (1864) of the third edition of "Miller's Chemical Physics."

ÆSTHETICS, OR THE SCIENCE OF BEAUTY. By John Bascom, Professor in Williams College. New York and Chicago: Woolworth, Ainsworth & Co.

The pressure, upon our time, of other duties has precluded such a perusal of this work as a fair criticism demands. A cursory examination, however, leads us to pronounce it a very useful and entertaining volume. We discern, however, that the author does not abstract the conception of beauty from the conventionalities, religious belief, and even superstitions of mankind, since, in establishing his standards of beauty in literature and art, he defers to all these, deprecating that which violates the "proprieties" of society as below the true standard. Now, we respectfully suggest this is not a " science of beauty," as the author styles it in his preface, but a dissertation thereon, having reference, at least in part, to the moral and religious effect of certain things which, scientifically judged, are beautiful in the extreme, but which our author denounces as inconsistent with a taste for the beautiful, because, to the prurient mind, they suggestimmoral ideas. To such an argument as this, the most fitting reply is that art " labors not for prurient minds."

SPEECHES, ADDRESSES, AND LETTERS ON Industrial and Financial Questions, to which is added an Introduction, together with Copious Notes and an Index. By William D. Kelley, M. C. Philadelphia: Henry Carey Baird, Industrial Publisher, 406 Walnut Street. Price, \$3.00.

To review this book adequately would require a column of our paper. It is a large octavo, filled with the views of a strong protective tariff advocate on questions, as its title indicates, intimately connected with production and labor. Such a book cannot fail to be interesting and profitable reading, when it is, as in the present case, the work of a strong mind devoted to the consideration of such topics through a life of public service. The social questions hinging upon the solution of the labor question are variovs and important. The book deserves, and will secure, a large sale, though many will doubtless take issue with the author in some of his views. But such a book, whether it agrees or disagrees with opinions already formed, arouses public attention to vitally important questions, the discussion and settlement of which cannot be delayed without danger. In this way the work before us will do good, and we cordially commend it to our readers.

FIRST HELP IN ACCIDENTS AND SICKNESS. A Guide in the Absence, or Before the Arrival of Medical Assistance. Published with the Recommendation of the Highest Medical Authority. Boston: Alexander Moore.

This appears to be a safe and comprehensive manual for the purpose set orth in its title.

THE AMERICAN JOURNAL OF MICROSCOPY, which was among the journals burned out in the recent Chicago fre, will hereafter be published at Racine, Wisconsin. By those interested in microscopic science, this publication will be cordially welcomed on its reappearance. Mr. George Mead is the editor and publisher. An advertisement appears on another page.

#### APPLICATIONS FOR EXTENSION OF PATENTS.

MACHINE FOR FORMING SHEET METAL PANS.—E. A. Smead, Corning, N. Y., has petitioned for an extension of the above patent. Day of hearing, February 14, 1872.

HARVESTER.—Joseph B. Butterfield, Philadelphia, Pa., administrator of Jesse S. Butterfield, deceased, has petitioned for an extension of the above patent. Day of hearing, February 14, 1872.

MACHINE FOR PACKING FLOUR.-J. Mattison, Oswego, N. Y., has peti tioned for an extension of the above patent. Day of hearing, Feb. 21, 1872.

### Value of Extended Patents.

Did patentees realize the fact that their inventions are likely to be more productive of profit during the seven years of extension than the first full term ior which their patents were granted, we think more would avail themselves of the extension privilege. Patents granted prior to 1861 may be extended for seven years, for the benefit of the inventor, or of his heirs in case of the decease of the former, by due application to the Patent Office, ninety days before the termination of the patent. The extended time invers to the benefit of the inventor, the assignees under the first term having no rights under the extension, except by special agreement. The Government fee for an extension is \$100, and it is necessary that good professional service be obtained to conduct the busine's before the Patent Office. Full information as to extensions may be had by addressing

## Business and Lersonal.

the Chargefor Insertion under this head is One Dollar a Line. If the Notices exceed Four Lines, One Dollar and a Half per Line will be charged.

The paper that meets the eye of manufacturers throughout 'he United States-Boston Bulletin, \$4 00 a year. Advertisements 17c. a line. Francis Schleicher, Consulting, Analytical and Man'fg Chemist. Laboratory, Newark St., bet. Jaekson and Harrison St., Box 172, Hoboken.

Information wanted of where could be purchased, by the quantity, L. A. M. Pascol's patent Burglar Alarm-patentee, George W. Biglow, New Haven, Conn. Please address M. K., Box \$13, Shreveport.

I will send, to any address, a plan and specification of my improvements in setting Steam Boilers, together with a shop license, for \$25. Address, for particulars O. Ranney, Corry, Pa., Box 264.

Basket Splint Machine Makers, address B. B. Eastman, Huntington, Mass.

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Williamson's Road Steamer and Steam Plow, with Thomson's Tires. Address D. D. Williamson, 32 Broadway, N. Y., or Box 1809.

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Fire Purposes, etc. Send for Catalogue. Rumsey & Co., Seneca, Falls, N.Y. Scale in Steam Boilers—To remove or prevent scale, use Al-

len's Patent Anti-Lamina. In use over Five Years. J. J. Allen, 4 South Delaware Avenue, Philadelphia, Pa.

Photographs.—Rockwood, 845 Broadway, will make 8x10 negative and six photographs of machinery, in any part of the city, for \$10.

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Improved Mode of Graining Wood, pat. July 5, '70, by J. J. Callow, of Cleveland, O., enabling inexperienced grainers("without the long required study and practice of heretofore') to produce the most beautiful and Natural Graining with speed and facility. Send stamp for circular.

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Shoe Peg Machinery. Address A. Gauntt, Chagrin Fall, Ohio

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SPECIAL NOT L.—This column is designed for the general interest and instruction of our readers, not for gratuitous replies to questions of a purely business or personal nature. We will publish such inquiries, however

Answers to Correspondents.

business or personal nature. We will publish such inquires, however when paid for as advertisements at 1:00 a line, under the head of "Business and Personal."

t. ALL reference to back numbers must be by volume and page.

C. L., of Pa.—We cannot detect any silver in the mineral you send.

PREVENTION OF FERMENTATION.—Cider can be prevented from becoming fermented by passing ozone through it.—C. F. D.

INCRUSTATION IN BOILERS.—E. S. F. should put clean oyster shells in his boiler. These will keep it clean by attracting all the particles of carbonate of lime.—F. W. A. S., of Cal.

CANKER IN THE MOUTH.—In answer to F. S. C., November 18th, I will say: Take a piece of common blue vitriol, and either make a wash by diluting in water, or simply rub the vitriol over the affected part, taking care not to swallow any of the vitriol. I have used it a great many many times, and never knew it to fail.—J. C. C., of N. J.

S. H., of <u>— A perpetual motion, in the sense in which</u> the term is used in mechanics, must supply its own power.

H. A. S., of N. Y.—A siphon cannot conduct water over a hight greater than that to which water can be raised by the pressure of the air at the point where the siphon is placed, less the hight of a column whose pressure would overcome the friction of the water in the short leg of the tube. It is atmospheric pressure alone that causes the water to rise in the short leg of the siphon. Your query relative to the motion of a rolling wheel has been repeatedly answered in this column.

W. M., of Pa.—The pressure of the atmosphere is all that raises water in an atmospheric pump. Such pumps are called suction pumps only by those unfamiliar with hydraulics.

WORMS IN HICKORY.—Cut the hickory at a time when the bark will peel off. That is generally from June to September. We, in the West, find this to be the right time.—G., of O.

SQUEAKING BOOTS.—In your issue of November 25, I noticed a remedy for squeaking boots, namely, to saturate the soles with kerosene oil. A much pleasanter way is to have your boots made to order, and, between each layer of leather in the sole, have a piece of oiled silk inserted. This is a sure preventive. Let Jones try it.—G. L. F., of N. Y.

CUTTING BEVELS.—In reply to C. H. S.: The surest, quick est, and best way to cut a bevel is to cut it in a box. To cut a miter on beveled work, place it in a miter box, giving it the same bevel in the box that it is to have in the work, and cut it with a saw, in the manner of cutting any other miter.—C. T., of Vt.

INCREASING POWER.—In answer to E. K., Nov. 4, I would like to say, it will be a disadvantage to put a fly wheel on his saw arbor. If his saw runs at a high speed, as it ought to, it will take a certain amount of power to run the fly wheel; this is always a dead loss. In sawing short work, it might serve to equalize the speed, but no one can gain power by its use.—F. C. S., of Conn.

BLAST FOR WASTE SHAFT.—J- H. B., of Ohio, writes: "I am producing an exhaust or suction in pipes with a blast from a fan, which draws up and discharges, with great force, dust, shavings, sticks, blocks, shelled corn, and all kinds of grain. This I do without anything going through the fan or blower. But, sir, do you know of anything in use that does this?" Answer-Machines for removing sawdust and small rubbish from shops have been constructed on this principle.

- LAYING OUT HOPPERS, ETC.—C. H. S. asks for a rule for laying out the miter of hoppers, wagon seats, etc. I give the following simple and accurate rule: Bevel the top or bottom edge of the sides of the hopper to the same angle that the sides stand at; then lay a bevel set at a true miter on the beveled edge, and that will lay off the joint. When the sides stand at different angles, bevel the edge of each side to correspond with the angle of that side. If the corners are to be a square joint, lay a T square on the beveled edge instead of a true miter.—G. S. N.
- SETTING SAW.—A circular saw that is filed and set right for splitting is not right for cross cutting, and *viceversa*. If J. H. M. wants a saw for doing both kinds of work, let him file the front edge of the teeth in a line with the center of the saw, giving the teeth a slight bevel top and front. In setting the saw, use a hammer, holding a piece of iron against the saw on the opposite side. Do not set the teeth at the points, but as near the base as possible. I think this will give him a saw that will cut smoothly, and as near right for both kinds of work as he can get.—F. C. S., of Conn.
- SPRING IN SHAFTING.—Answer to query 5, No. 22, current volume. Ten years since, our factory, in the basement of which was shafting of cast iron, from three to four inches diameter, in sections about ten feet long, was, burned down. These were entire, but crooked as snakes, six to ten inches out of ilne. When we rebuilt, they were utilized, by being heated (by wood fires, made on the ground) to a red heat at the point to be straightened. At those points a steady pressure was applied; the shafts were forced into line, fitted, and are now in use, "as good as new."-R. L. B.

EXTERMINATING RATS .- In your paper No. 14, Sept. 30, 1871, query 21, T. C. H. wishesto knowsome means of expelling rats from a building. Let him catch, by any ordinary trap, three rats, put them in a cage constructed of wire, in any place which is plagued by this ani-mal, and give them no food whatever. On the third day he will find only two rats, one being eaten up by the two others, and on the sixth day, only a single rat in the cage. Let him give the survivor his liberty on the seventh day, and he will be, in the course of one week, rid of all the rats. except the one monster which ate up his two brothers, and which he may feedfor sympathy's sake. This mode was adopted with great success in a building in the former Thiergarten, at Vienna, where all other means to expel these animals were useless.-L. S., of Vienna, Austria. L. B. S., of Mass.-The compound engine is an engine having two cylinders, one a high pressure and the other a low pressure. In the high pressure cylinder the steam is used non-expansively, and it exhausts from this cylinder into the low pressure cylinder, where it is expanded as much as practicable, and then exhausted into a condenser. The method admits of more convenient application in marine engines, where, to obtain the same amount of expansion, a long cylinder would be needed. With the general adoption of surface condensers, marine boilers are not now liable to scale, and they carry a much higher pressure of steam than formerly, rendering the expansion of steam much more important than was the case when low pressures were the rule. For details of construction of various engines, made on the compound principle, you will find it necessary to read such works and publications as make marine engineering a specialty. CURIOUS FREAK OF TWIN STEAM BOILERS.-Will you allow me to say, for the benefit of H. P. S., of Kansas City, Mo., that the difficulty lies only in his not having steam pipes large enough to allow the steam to pass freely from one boiler to the other, so as to equalize the pressure, attendant upon a larger amount of steam being generated in one boiler than the other and vice versa? No one can keep a fire perfectly regular, and therefore hollers set in the manner he states should be connected by a pipe of ample size to allow the pressure to equalize itself; when that is done there will be no trouble. The only curious freak about the boilers lies in the use of so small a pipe to connect them at the top. A six inch pipe would answer the purpose very well; then, if he chooses to use a two inch one to lead from that to the engine, good; but a four inch

MUNN & CO., 37 Park Row,

#### Inventions Patented in England by Americans,

From November 9 to November 11, 1871, inclusive. [Compiled from the Commissioners of Patents' Journal.] CANAL BOAT.-W. F. Goodwin, Metuchen, N. J. HEATIN® BOLT RODS.-G. C. Bell, Buffalo, N. Y. UTILIZATION OF TIN PICELE.-G. Lander, New York city. WATER METER.-G. W. Copeland, Malden, Mass.

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#### Foreign Patents,

The population of Great Britain is \$1,000,000; of France, \$7,000,000 Belgum, \$,000,000; Austria, \$6,000,000; Prussia, 40,000,000; and Russia, 70,000,000. Patents may be secured by American citizens in all of these countries. Now is the time, while business is dull at holfe, to take advantage of these mmense foreign fields. Mechanical improvements of all kinds are always in demand in Europe. There will never be a better time than the present to take patents abroad. We have reliable business connections with the principal capitals of Europe. A large share of all the patents secured n foreign countries by Americans are obtained through our Agency. Ad. dress MUNN & Co., \$ Park Row, New York. Circulars with full information on foreign patents, furnished free.

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Boiler and Pipe Covering manufactured by the Chalmers Spence Non-Conductor Co. In use in the principal mills and factories Claims—Economy, Safety, and Durability. Offices and Manufactories, foo E. 9th street, New York, and 1202N. 2d street, St. Louis, Mo. Dickinson's Patent Shaped Diamond Carbon Points and Adjustable Holder for dressing emery wheels, grindstones, etc. See Scientific American, July 24 and Nov. 20, 1869. 64 Nassau st., New York.

Railway Turn Tables-Greenleaf's Patent. Drawings sent on application. Greenleaf Machine Works, Indianapolis, Ind. Peck's Patent Drop Press. For circulars address the sole manufacturers. Milo, Peck & Co.. New Haven, Ct.

To Ascertain where there will be a demand for new Machinery, mechanics, or manufacturers' supplies, see Manufacturing News of United States in Boston Commercial Bulletin. Terms \$4.00 a year