ADDITIONAL IMPROVEMENTS.

W. C. Banks, of Como Depot, Miss., for an Improve-ment in Corn Planters. Patented May 1, 1860: Ichim, in connection with the seeding wheel, F, with its flanges, b spring clearer, d, and adjusting device, C, as therein claimed, the spring holder, r, surrounding a portion of the seeding wheel, to prevent the seeds from dropping from the cells until said cells arrive at or over the exit opening, as fully set for thand represented.

T. J. Jolly, of Olean, Ind., for an Improvement in Machines for Loading Hay. Patented June 26, 1860:

13601: I claim the sectional gathering teeth, F, constructed of stationary sections, f, and sliding sections, 1', combined and operating in a machine for loading hay in the manner and for the purpose set forth. EXTENSIONS.

J. S. Gwynne, of New York City (formerly of Pittsburgh, Pa.), for an Improvement in Separating Oleic and Stearic Acids. Patent dated Sept. 3, 1846:

1846: I cluim the application of heat through a liquid or aeriform me-dium to the mass to be pressed, in such a mannerthat the said mass before it is subjected to pressure shall be heated gradually and uni-formly throughout, to such a degreethat while the stearie acid is a no time during the process melted, the olelcacid is rendered fluid enough to be afterwards expressed in the manner above described.

J. H. B. Latrobe, of Baltimore, Md., for an Improve-

ment in Stoves, of Estendore, Ed., for an Improve-ment in Stoves. Patent dated Sept. 5, 1846: I claim the employment of a stove such as described, so construct-a and placed within the ordinary fireplace as to heat the room by its irect radiation as well as by heating air entering the room from utside, as described, serving the double purpose of a stove and hot is furnece. air furnace

DESIGNS.

Marie L. Livingston, of New York City, for a Design for a Medallion of Washington Irving.

S. Vedder, of Troy. N. Y., assignor to North, Chase & North, of Philadelphia, Pat., for a Design for Stoves:

62. 21 2.2/34

CORRESPONDENTS sending communications for publication in our columns are requested to avoid writing on both sides of a sheet of paper. This fault, though common to persons unaccustomed to writing for the press, gives great trouble to the printer (especially in long articles), and, when c ombined with illegibility of handwriting, often causes interesting contributions to be regret fully consigned to our waste-paper basket.

- C. C. D., of Ind.-Corn can be kiln dried in a very su. perior manner in a kiln similar to a malthouse. The floor should be made of tiles, with the flues of the furnaces conducting the hot air ruuning underneath. Corn is often kiln-dried by steam con-ducted through the grain in pipes. Mr. Bulkley, of Kalamazoo. Mich., is engaged in the business of erecting steam drying kilns, and can give you any further information on the subject. The corr only requires to have its surplus moisture expelled, and is not ed like pop corn."
- J. P. H., of Va.-You will find a series of articles on oilers, furnaces, and chimneys, in Vol. XIII, (old series) SCIEN TIFIC AMERICAN, commencing on page 334. The common rule to be observed in constructing chimneys for stationary engines is to al low 1% square inches area inside for every pound of coal consumed per hour, and 3½ inches in hight. A chimney 80 feet in hight by per hour, and 32 increased ingine. A chimacy or ices in man of this rule is suitable for burning 300 lbs, of bituminous coal per hour. A chimney 100 feet in hight, and 450 square inches area inside, will afford a good draft for your 8 by 100 feet boiler, if you muse a good thick wall, and have it plastered smoothly inside. Why do yon get such a long boiler? We believe that one 30 feet in gth would answeryour purpose fully as well.

E. D. & Co., of Pa.-We do not believe that glue can manufactured economically from old leather, because it requires a great amount of caustic alkali to remove the tannin before the gelatine will dissolve and become glue. The tannin car be removed from leather by strong caustic alkalies and frequen washings.

L. C. H., of Mass.-Bread raised by yeast is the best and most wholesome. If you can get a Frenchman to teach you to make bread, you will beat all Americans.

T. H. McC., of Ill.-The steam and water in a boiler are both of the same temperature at all pressures. If the pressure is 60 lbs, on the square inch, the temperature of steam and water is 305° Fah.

- D. T., of Pa.-Your article on flying was crowded out. H. B., of N. H.-You will find a new mode of silver
- plating described in our last issue, page 176. H. L. P., of N. Y.-The other natural curiosities of
- Florida would be more interesting; we have heard enough about the silver spring. J. B. C., of Tenn.-Your article does not raise a doubt
- in our minds in regard to birds" flying by the power of their mt/scles.
- H. R. A. B., of Mass .- Your article was prepared once for the printers, with an editorial in reply, but it got postponed, and you have doubtless seen the wholesubject discussed since in our paper with a full illustration of Stevenson's wheel. Theoretically, the whole power, not half merely, can be imparted by per
- J. P. M., of Ill.-We do not believe that what you call hair snakes are formed from horse hairs. In order to convince people of that, it would be necessary to conduct your experiments in such a manner as to leave no possibility for the reptile to be pro-funced in the ordinary way.

W. B. L., of Ill.-Your engine of 14 inch stroke may be run at the rate of 172 revolutions per minute---a 400 foot speed of piston. This is believed to be a good speed for such engines.

A. P., of Ga.-We have found no difficulty in dissolving india-rubber perfectly in refined turpentine. Cut the rubber into shreds, place it in the turpentine in a close vessel heated to about 90° or 100°, and stir occasionally, and if the rubber is pure it will not be long before it is perfectly dissolved.

C. K., of C. W.-We have never seen pans made of sheet iron employed for boiling down maple sap. We believe they would soon wear out, as the sap would exert a slight, acidu-lous action upon the metal. The best thing you con do, next Spring, is to make an experiment with one or two pans twelve feet long, four feet wide and one foot deep. This is the only safe way for you to proceed, and the expense will not be very great.

H. F. N., of Ohio.-Benzole will destroy the gloss of oil in painting, like turpentine, but is very dear in comparison with it. We do not know a good substitute, all things considered, for turpentine in of painting. **

L. P. L., of M. H.-An inferior kind of wood may be easily made to imitate mahogany by those who are skillful in the art of stainine. Common white wood is now made to resemble maple, black walnut, rosewood and mahogany, in all our cabinet manufactories. The mahogany stain is made with a strong decoction of fustic, a little redwood and logwood, mixed with som

J. S. D., of N. J.-The teeth of saws are cut by the manufacturer with large punching machines. You will find an Maintacturer with targe putching machines. You with had an illustration and description of the operations on page 126, Vol. XIV. (old series) of the SOLENTIFIC AMERICAN.

J. M. K., of Conn.-Warm turpentine will soften hard putty, but you will find it much easier to scrape the putty off your broken window, with a knife, than to soften it with any solvent known to us.

J. E., of N. C -The most recently published work on dyeing in our country, you can obtain from J. Wiley, 56 Walker t, this city; its pri ce is \$5

G. H., of Summit.-Your phonometer appears to be new and we should think a patent could be obtained for it. When you write to us again, ple se advise us in what State you reside.

J. D., of Mass.-To enable us to judge of the probable

- novelty of your inventions we shall require sketches and descriptions of each. These you can prepare and send us by mail. W. B., of Pa.-Your suggestion will be complied with
- so far as isin our power. M. J., of Mass.—We have never been at Sevastopol
- but have been informed that the American company employed for raising the sunken vessels in that harbor, first inclose them with rations the same vessels in that match in our met incluse them what tarpaulins, then pump out the water; a first which they are raised without much difficulty with water camels.

F. B., of N. Y .- Take plaster-of paris and make it into the consistency of putty, with a strong solution of alum, and then bake it in a firefor half an hour. When cool, reduce it to powder, then mix it to the consistency of paste with water and burr grit, to fill up the holes in your millstones. This is the best cement for e known to us the

H. C., of N. Y.-If the patentee to whom you refer ses to apply for an extension of his patent, he should do so within the next two months. We are prepared to undertake the statement of his receipts and expenditures, also what efforts he has put forth to introduce his invention into use. Of the value of the invention there cannot be much doubt.

O. G., of Pa.—Our pamphlet of advice to inventors contains all the information you desire about caveats. you one by mail, free of charge

MONEY RECEIVED

At the Scientific American Office on account of Patent

At the Scientific American Office on account of Fatent Office business, for the week ending Saturday, Sept. 8, 1860: – A. C., of Mass., \$30; I. M., of Ohio, \$30; J. H. B., of N. Y., \$30; M. A. R., of N. Y., \$35; B. F. C., of Conn., \$35; B. F. K., of R. I., \$55; II. B., of Ill., \$30; G. W. H., of PA., \$30; S. L. B., of S. C., \$35; W. H., of Ill., \$35; D. & W. W. B., of Jowa, \$32; W. L., of Conn., \$30; L. S. G., of Ky., \$40; G. N. C., of Conn., \$30; J. E. S., of Maine, \$33; I. W. E., of Mich., \$30; J. Y., of Ohio, \$30; C. W. S. of A. B. 200; J. H. B. of Ohio, \$20; J. H. an Mallet, 533; J. W. E., of Mich., 533; J. I. () Only, 533; C. W. S., of Ala., 530; J. H. B., of Ohio, 530; J. H. B. S., of Ga, 530; J. F. E., of N. Y., 530; W. H. S., of N. Y., 523; O. B. L., of N. Y., 530; D. E. T., of N. Y., 530; G. P. R., of Mass., 5^{25} ; G. J. C., of Vt., 525; C. C. S., of Fla., 530; J. S. N., of Cal., 545; W. S. K., of Con., \$30; J. H., of N. Y., \$15; J. C. C., of Con., \$36; C. W. F., of Ill., \$30; J. R., of Mass, \$30; J. M., of Maine, \$55; T. J. W., of Con., \$30; J. T. M., of Ill., \$20; H. W., Malling, 450; 4.30; G. C. A., of Ky., \$25; H. C., of Conn., \$30; E. S., of N. Y., \$25; D. A. P., of Ind., \$25; C. A. W., of N. J., \$30; D. M. of N. Y., \$20; J. E. A., of Ill., \$35; E. R. P., of N. Y., \$30: J. H.' of Ind, \$30; D. F. E., of Mass., \$30; J. & D., of Pa., \$50; J. C., of Iowa, \$25; J. L. G., of Ga., \$5; P. D. V., of N. Y., \$10; W. H. T. of Ohio, \$30; S. C. St. J., of N. Y. \$30; W. A. C. of Ill., \$350; W. W. G., of Mass., \$50; G. W. R., of N. Y., \$30; S. C. S., of N. Y \$30; U. B., of Mass., \$30; T. M. T., of Ohio, \$35; M. & S., of Ga \$40 : L. N. Y., of Ind., \$15 : E. T., of Maine, \$25 : J. & E., of Ill \$25

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent

ties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 8, 1860: **M**. & S., of Ga.; S. J. H., of N. Y.; T. M. T., of Ohio; U. B., of Mass; E. T., of Maine; J. H. B., of N. Y.; G. G., of N. Y.; G. C., of N. Y.; J. M. B., of Maine; G. J. C., of Vt.; A. K., of Wis: **B**. **P**. **R**. of Mass; **B**. O. G., of N. Y.; H. L. N., of N. Y.; J. & D., of **Pa**. (S case); J. L. G., of **Ga**.; D. F. E., of Mass; G. D. W., of Mich: J. C., of S. C.; P. D. V., of N. Y.; D. A. B., of Ind.; M. A. R., of N. Y.; D. P., of Ill.; B. F. K., of R. I.; D. A. P., of Ind.; B. F. C., of Conn.; E. S., of N. Y.; C. S. S., of N. Y.; J. C. C., of Conn.; H. C., of N. C.; G. C. A., of Ky.; J. A. B., of N. Y. (2 cases); J. N. Y., of Ind.; E. R. P., of N. Y.; W. H. S., of N. Y.; J. & E., of Ill.; D. H., of N. Y.; S. H. & M. C. W., of Mass; J. E. A. of Ill.

NEW BOOKS AND PERIODICALS RECEIVED

NEW BOOKS AND PERIODICALS RECEIVED THE LONDON QUARTERLY REVIEW, for July; re-published by L. Scott & Co., No. 54 Gold-street, New York. Messrs. L. Scott & Co. are rapidly putting forth their reprints of the English reviews for the coming quarter. These publications have been long issued with such regularity that the announcement of their issue has become almost nunccessary, as readers know con-fidently when to expect them. The following is an abstract of the present number of the "London Quarterly."—I. The Missing Link and the London Poor; II. Joseph Scaliger; III. Worknen's Earn-ings and Savings; IV. The Cape and South Africa; V. Ary Schef-fer; VI. Stonehenge; VII. Darwin's Origin of Species; VIII. The Conservative Reaction. This number commences a volume. They are also the publishers of the "Edinburgh," North British " and "Westmineter Reviews" and "Blackwood's Magazine," all of which are obtained for \$10 per annum-one "Review," \$3. ATLANTIC MONTHLY: published by Ticknon & Fielder

ATLANTIC MONTHLY; published by Ticknor & Fields,

Boston, Mass. By missing the July and August numbers of the "Atlantic," we ost our interest in the "Professon's Story," and consequently flud the September number rather dull.

REVUE UNIVERSELLE des Mines, de la Métallurgie, des Travaux Publics, des Sciences et des Arts appliqués à L'Indus-trie; sous la direction de M. Ch. De Cuyper, Professeur ordi-naire à la Fuculté des Sciences de L'Université de Liege, In-specteur des études à L'École des Arts et Manufactures et des Mines. Published by E. Noblet, editor and proprietor, Paris and Liege.

Specteur des études à L'Econe des la liter and proprietor, a sur Mines. Published by E. Noblet, editor and proprietor, a sur and Liege. Our correspondent who was so anxious to find an article in this valuable periodical, from an extract which he saw in the SCIENTIFIC AMERICAN, will doubtless be able to procure the desired number of H. Bussange & Son, of this city. De LEARNED FROM A TREE; by Har-

AMERICAN, will doubless be able to procure the desired number of II. Bassange & Son, of this city. WHAT MAY BE LEARNED FROM A TREE; by Har-land Coultas. Published by D. Appleton & Co., New York. The traveler, in his journey, experiences an exquisite semantion of pleasure, when, unexpectedly, some scene of surpassing beauty incets his gaze; perhaps at the top of a mountain, perhaps at the end of a merrow defile. It is all one where the scene is sound; the sem-sation is the same. As it is with the explorers of natural scenery, so it is with those who journey among books. In the above modest tilter ature an elegant entertainment. He is the author of several works on botany, but this one he esteems the most highly. A tree is hissubject, and he gives us its "life.history." If traces it from the first manifestations of vitality in the gorminating sceed until the period of puberty, when it puts forth flowers and muise. A tree, " leagnay, "is indisputably the most highly-developed form which for ceuturies, there is something noble and majestic. It is God's own architecture. This mass of vegatable matter is only earth and aliv which has undergrone transformation; the material alke of wan-dering zellyrs and rushing storms—of gently-devending might here, from the planting of a bech-nut in the solution is nich taws and angry thunder ellowers—lab been here, on this spot, mera-morphosed." This author traces (scientifically and historically it has grown to be aloty temple of Nature, with the birds singing and the squirrels illaring anong its waving branches.

USEFUL HINTS TO OUR READERS.

USEFUL HINTS TO OUR READERS. BOUND VOLUMES.—Persons desiring the first volume of the New Series of the SCIENTIFIC AMERICAN can be supplied at the office of publication, and by all the periodical dealers; price, \$1.50; by mail, \$2, which includes postage. The volume in shocts, complete, can be funtished by mail; price \$1. Vol. II. is now bound and ready for delivery. The price for this volume is the same as that charged for Vol. I.

SUBSCRIBERS TO THE SCIENTIFIC AMERICAN who fail to get their papers regularly will oblige the publishere by a sting their complaints in writing. Those who may have missed certain num-bers can have them supplied by addressing a note to the office of publication.

IMPORTANT TO INVENTORS.

INPORTANT TO INVENTORS.
THE GREAT AMERICAN AND FOREIGN PATENT AGENCY-Messis MUNN & CO., Proprietors of the Scientific American Automatic and the programmer of Patents, as associate counsel with them in the prosecution of their extensive patent busines. This connection renders their facilities still more ample than the prosecution of their extensive patent busines. This connection renders their facilities still more ample than the prosecution of their extensive patent busines. This connection renders their facilities still more ample than the prosecution of their extensive patent busines. This connection renders their facilities still more ample than they have ever previously been for procuring Letters Patent, and attending to the various other departments of business pertaining to the various other departments of business count, interferences, Opinions relative to Infrincements, &c., &c. The long experience Messix. Mursh & Co. have had in preparing Specifications and Drawines, extending over a period of fifteen years, has rendered them perfectly conversant with the mode of doing business at the patent of inventions is freely given, without charge, on sending a model or drawing and description to this office.
Consultation may be had with the firm, between NTME and FOTH of diventions is freely given. Whow Si PAEE Row, New York, We have also established a BRANCO OFFICE in the general super-intendence of one of the firm, and is in daily communication with the firmedian office.
The Attent Office to all such cases any require it. Inventors and others who may vieit Washington, having husiness at the Patent office, are very extensively can describe and there office.
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The attent office to all such cases at may require it. Inventors and others who may vieit Washington, having husineses at the Patent office.
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Immediately after the appointment of Mr. Holt to the inter-Unmediately after the appointment of Mr. Holt to the office of Subjoined very gratifying testimonial :-Messrs. Munx & Co:-It affords me much pleasure to bear test-mony to the able and efficient manner in which you have discharged our duttes of Solicitors of Patents while I had the honor of holding the affice of Commissioner. Your hadness was yeary large, and, you sustained (and, I doubt not, justify dreaver) the reputation of en-ergy, marked ability and uncompromising fidelity in performing your professional engagements. Very reporting the ant, J. HOLT. Messrs. MUNN & Co:-Geneticment.