27,594.—L. W. Langdon (assignor to himself, Hiram Wells and D. G. Littlefield), of Northampton, Mass., for an Improvement in Sewing Machines:
I claim, first, Operating a four-motion feed by means of a loose and a friction joint, substantially in the manner and for the purpose specified.
Second, I claim the revolving take-up, L. operating as set forth. for

specified.
Second, I claim the revolving take-up, L. operating as set forth, for the purpose of governing the needle thread, as described.
Third, I claim the hock, T. or other equivalent device, for the purpose of keeping the shuttle thread tight, as described, when used in combination with a needle driven by a crank, as set forth.
Fourth, And, in combination with a needle driven by a crank, I claim the rib, h2, in the shuttle race, with its notch or shoulder, 3, for the purpose of preventing the loop from being curried forward by the shuttle, as set forth.

27,595.--E. A. Leland (assignor to himself and Stephenson & Tompkins), of Jacksenville, Ill., for an Improvement in Gas Stoves:

I claim the combination with the base, B, and cylinder, A, of the gas box, a b c, and supply pipe, E, as shown and described, so that the device may be used as a cooking or air-heating stove at pleasure, as set forth.

27,596.---Daniel Minthon (assigner to John A. Green) of Beverly, Mass., for an Improvement in Enema

Syringes:

1 claim the hollow valve constructed with a hemispherical end, having apertures or throats formed in its sides for the fluid to through, substantially as set forth.

1 Noon (essigner to Gideon S. 1)

through, substantially as set forth.

27,597.--Wm. H. Noyes (assignor to Gideon S. Palmer), of Gardiner, Maine, for an Improved Machine for Reducing Wood to Slivers:

I claim the combination, in a sliding stock. O, of the cutter, B, and splitter, C, made up of a series of knives in rows, so arranged that the posterior rows shall score the spaces left by the foremet row, substantially in the manner and for the put pose specified.

27,598.—Elizabeth Keagg, of Mineral Point, Pa., administratrix of the estate of Samuel Keagg, de-

ceased, late of Mineral Point, aforesaid, for an Improved Centering Chuck for Lathes:

I claim the sliding thimble or sleeve, D, fitted on the mandrel, C, connected with a loaded lever, E, and provided with a flaring or funnel-shaped outer end concentre with the mandrel and its center points, a, to form a centering chuck for a lathe, as set forth.

The object of this invention is to obtain a simple attachment that may be applied to any ordinary turning lathe, and serve as an effi-cient centering device therefor to admit of the very ready and proper adjustment of articles in the latter.1

27,599.--Hiram H. Scoville and D. R. Fraser (assignors to themselves and P. W. Gates), of Chicago, Ill., for an Improvement in Quartz-crushers:

We claim crushing wartz by the combined agency of a swinging concave trough, B, and a rising and falling roller, D, substantially as set forth.

concave trough, B, and a rising and range control of the 27,600.—C. Edward Sneider (assignor to Wm. Poult ney), of Baltimore, Md., for an Improvement in Breech-leading Fire-arms:

Breech-leading Fire-arms:
I chian, first, The combination with the locking apring, D, of the wedge, c, the spring, f, and the set screw, h; the whole applied and operating substantially as and for the purpose specified.

Second, The lever, F, applied in combination with the trigger guard and with the pin, j, substantially as and for the purpose specified.

[This invention relates to the locking spring that is used to secure

the breech and barrel together in condition for firing in some kinds of fire-arms. It consists, first, in a certain contrivance applied to such locking spring for the purpose of constituting a means of adjustment to make the said spring lock the breech joint tightly and compensate for wear of the said spring and the projections on the breech and barrel upon which the said spring acts. It consists, secondly, in cer-tain improved means of raising the locking spring from the projection on the breech to unlock it and permit it to be opened for loading.]

on the preech to unlock it and permit it to be opened for loading.]
25,601.---John Stowell (assignor to himself and Daniel
F. White), of Charlestown, Mass., for an Improved
Feed-water Regulator for Steam Boilers:
I claim the combination with the float, B, and steam box, A, of the
slotted rod, b, arm, I, valve, C, vessel, G, lever, H, or its equivalent,
and a loaded lever, J; the whole applied and operating substantially
as described.

[The object of this invention is to control the action of the feed pump, either by shifting a belt which drives it from a loose to a fast pulley, and vice versa, on one of the shafts by which it is driven, or by operating on any other means of starting and stopping the pumps; and it consists in a certain means employed, in combination with a float, whereby this result is produced very promptly and certainly at the instant of the water in the boiler falling or rising to certain

25,602 .-- Stephen Ustick, of Philadelphia, Pa., assignor

25,602.—Stephen Ustick, of Philadelphia, Pa., assignor to himself and Julius A. Pease, of New York City, for an Improvement in Clay Pipe Machines:
I claim, first, Constructing the die piece, J, with perforations or openings, t, to be filled with cotton, wool or other equivalent substance, in combination with the band or wrapper Y, substantially as and for the purpose described.

Second, The grooves or channels, u, in the die pieces, G and H, to be filled with cotton or other suitable fibrous substance, or an equivalent, in combination with the sheaths, v and w, for the purpose of lubricating the lips of the dies, as described and shown.

Third, The combination of the springs with the core. M, for the pupose of helding the latter in it is place during the formation of the lell cand of the pipe, substantially as described.

Fourth, Combining and arranging the ring, c, with the mold, L and core, M, substantially as and for the purposes described.

Sixth, The cut-off ring, O'', in combination with the shifting rod, or its equivalent, when arranged and operating in relation to the die, I, substantially in the manner and for the purposes set forth.

Seventh. The safety chamber, T, provided with the valve, U, arranged and operating in relation to the clay cylinder, B, substantially as and for the purpose set forth.

as and for the purpose set forth.

27,603.—C. J. Van Wyck (assignor to J. M. McCauley)
of New York City, for an Improvement in Apparatuses for Distilling Oil from Coal:

I claim the construction of a retort, with a grate, c, in the bottom, and an inclined conductor, F., below such grate, as described, such of the fire by which the retort is heated.

This invention consists in a certain construction of an apparatus for distilling coal or other substances with provision for the simul-taneous extraction or solution and separation of oils or other products of two different qualities or specific gravities.]

27,604.—A. L. O. Wall, Geo. Roberts, and M. S. Carter, of Decatur, Ill., for an Improvement in Truck

ter, or Decatur, III., for an Improvement in Truck for Mole Plows:

We claim the combination or the crank axles. B B', link rods, G, traveling plate, F, and screwed spindle, C, substantially as described for the purposes set forth.

We also claim supporting the front axle in an adjustable bearing, when arranged and operating substantially as described for the purpose set forth.

27,605.—G. W. N. Yost (assignor to G. W. N. Yost & Co.), of Yellow Springs, Ohio, for an Improvement

in Manufacture of Soap:
claim the described new article of manufacture, namely, b,
prepared in a state of minute subdivision, instead of bar
s, substantially as set forth forthe purposes described. RE-ISSUES.

Louis Lefebore, of New Orleans, La., for an Improve-ment in Furnaces for Evaporating Sugar Juices. Patented Nov. 2, 1858; improvement added Jan.

ratented Nov. 2, 1858; improvement added Jan. 24, 1860:
I claim, first, The hemispherical kettle, with alternate converging flutes, as and for the purpose described,
Second, In combination with the said kettle, fluting the surrounding brickwork, as described, so as to form an undulating flue around the kettle.

Third, Passing the connecting pipes of the kettles through the flues whereby they are utilized as evaporators, as set forth.
Fourth, The inclined gutter, in combination with the gutters of the respective kettles, as described.

Fith, The cylindrical flue enclosing the latter, connected with the exit flue, and communicating with the undulating flue at the top by graduated draft channels, substantially as set forth.

Wm. Mallerd, of Bridgeport, Conn., for an Improvement

Wm. Mallerd, of Bridgeport, Conn., for an Improvement in Gas Regulators. Patented Oct. 8, 1858:

I claim arranging the graduated lever, 4, with the adjustable weight 17, in combination with the gasometer, 22, and the valve 10, in such a manner that by raising the gasometer the valve is closed, and the supply of gas is a speed, so that the pressure of the gas in the gasometer can be regulated by adjusting the weight, 17.

Actif in combination with the lever, gasometer, and reservoir, 1 decim admitting the gas direct against the pasometer by means of a small tube, 8, which is contracted towards its upper end, so that impurities carried up by the gas or any other deposit will fall outside of said tube without being able to interfere with the working part of he gas regulator.

I also Claim arranging the stud, 21, in combination with the lever, 4, rod, 9, and valve 14, in such a manner that by depressing the stud, 21, the supply of gas may be ascertained, without raising the cover of the gas regulator.

'ADDITIONAL IMPROVEMENT.

Alban Anderson, of Lancaster, Pa., for an Improved Governor for Steam Engines. Patented August 3,

Governor for Steam Engines. Patented August 3, 1858:

I claim the change from a disk revolving on an extended arm to a disk revolving over the center of the moving frame, and the consequent change in the mede of generating and applying the resultant force which arises front the combined movements of the disk and frame; which change in the mode of production and application of the power, brings the machine within a smaller compass, gives it more sim plicity of construction, renders it safe to increase the velocity of its movements, and thus increase its sensitiveness and power, and especially it renders the attraction of gravitative inoperative, so that it does not act at all as a disturbing power.

DESIGNS. S. W. Gibbs (assignor to Ratbone & Co.), of Albany, N. Y., for a Design for the Plates of a Cook Stove.

W. Gibbs (assignor to Ransom & Co.), of Albany, N. Y., for a Design for the Tops and Bases of Stoves. Francis Hovey, of New York City, for a Design for a Copying Press.

Samuel H. Ransom, of Albany, N. Y., for a Design for Stove Plates.



A. H., of Ill.—A solution of salt and alum is excellent for preserving the furs and skins of animals, but it will not keep them a sufficient length of time, as stuffed specimens of natura history. Such skins are treated with arsenical soap, which is a powerful antiseptic and preservative against the attacks of insects. We do not know where you can get Audubon's Natural History in nthly Parts

R. W., of Mass.—The whirling motion which water assumes in flowing from a hole in the bottom of a tub is not caused by electrical currents, as you suppose, for such currents do not move in spirals. This motion is caused by the resistance to the flow of water offered by the orifice, and it amounts to 27% per cent of the power of the falling water. The co-efficient of discharge through an orifice is only 62% per cent, therefore the resistance by the ori-fice to the free falling of the water communicates motion to the mass in the tub, and this must affect the motion of the effluent water. Water will fall down in a straight line, in vacuum, where its passage is unobstructed.

N. B. T., of Ohio.-Iron and steel are rendered a deep blue color, by first polishing the metal, then heating it up to 570° Fah., and cooling it at this point. The color of any polished piece of steel indicates its temper. A straw color, which is the temper of lancets, is obtained by heating the polished metal to 430° Fah. 450° Fah. is the heat for razors, and is a dark yellow. A light purple is obtained at 530° Fals., which is the temper for watch springs and swords. 290° Fah. is the temperheat forlarge saws and 570° Fah. for small ones,

E. C. Van D., of Miss.—Your subscription will expire with No. 10 of our next volume (in September). You ask a recipe for a good solder, and we will give you one. Take 1 lb. of pure Banca tin, and melt it, then add half a pound of clean lead, and when it is melted, stirthe mixture gently with a stick or poker, and pour it out into solder strips. We gave Mr. J. Lathrop, of Middleton, Conn., this solder receipt some years ago, and he has informed us that it has been worth \$50 to him. He has never failed to make good solder with it.

J. W. B., of Ala.-Professsor Faraday has certainly declared that the efficiency of a lightning conductor is due to the solid section of the metal. We know it has been generally supposed that most of the electricity in conductors is carried on the posed that most of the electricity in conductors is carried on the surface; but not "wholly" on the surface. It has always been held by us that the electric fluid permeated the whole conductor,

F. A. B., of Wis.-You can make the plate or cylinder of an electric machine with wood, covered with several coats of lac-varnish as a substitute for glass. You may also mount your plate on a metallic axis, and have perfect insulation, if supported on pillars of dry wood. You must insulate your rubbers on glass, if on plants of dry wood. I ou must insulate you renders on gains, if possible French glass is the best substance which you can use for the generating plate, and we must caution you not to expect much from the lac-covered plate as a substitute.

R. D. O. S., of Conn.—Small drills may be run at the rate of 3,000 revolutions per minutes, if kept cool with plenty of oil or water. A 54-inch circular saw may be driven at the speed of 4,500 feet per minute at the periphery. The proper speed for any saw depends upon the kind of wood that has to be cut. A good alloy forthelining of journal boxes is composed of copper, 24 ounces: tin, 24; antimony, 8. Melt all, and run into an ingot first; after which melt the ingot for the journal box, and pour it into the mold. In making alloys, melt the most fractious metals first, and the ers according to their degree of fusibility.

M. F. V., of Vt.-The sketch which you have sent of an electro-magnetic engine represents one that is used as a toy somewhat extensively. It is of no practical value. If you desire to be a good engineer, we advise you to serve a full apprenticeship at the business, and commence first in a rather small country machine shop, where you will have an opportunity to try your skill upon all kinds of work. In large shops you would be too much confined to one specific kind of work, according to present custom.

W. H., of Md.—The recipe to which you refer for flavoring tobacco is to moisten it thoroughly with whiskey in which one pound of honey has been steeped to the gallon for two days. stirring it frequently during that period. This liquid imparts a pleasant flavor to the tobacco of cigars, and is used with success by some cigar manufacturers. Beeswax steeped in whiskey makes a good flavoring liquor for tobacco, also; and if the odor is desired to be hightened, add a little gum benzoin with the honey.

C. A. S., of Maine.—The conducting power of copper is

1.00; silver, .98; gold, 1.13; iron, 5.63; quicksilver, 50.00; zinc, 3.70. Silver is the best conductor of these metals; copper second, and mercury the worst—50 times. You will therefore perceive how unscientific it would be to employ cups containing mercury in any part of a line of telegraph. Pure-rain-wateris almost a non-conductor, in comparison with the metals. It is to copper as 40,653,723.00 to 1; salt water is about 14 times superior to fresh as a conductor.

J. G., of Ind.-It is true that there has been great difficulty in distinguishing among the lower organizations, plants from animals. Ehrenberg fell into the error, common to all the early microscopists, of believing many plants, in certain stages of their growth, to be animalcules, and with a strange want of the true philosophical spirit, he obstinately maintains his false position after all the other eminent miscroscopists of the world have given it up. Many of the continental microscopists, who are now sbehind the English in this department of science, still follow Ehrenberg; and we have now lying on our table a report of some French savans, which save that yeast consists of a plant and some rience savans, which says many years consess of a plant and an animal. The part, however, of the yeast plant which, from its independent motion, is mistaken for an animal, is so exceedingly minute as to be barely visible under a microscope which repersents the plant as large as a grain of wheat. These minute or ganisms, even if they were animals, would not produce a 1,000th part of the carbonic acid that is given off in fermentation. The first time that we saw them, though we had long been areas of the dispute in regard to their nature, it was almost impossible to believe that they were not animals, so life-like were their motions. But Hassall, Carpenter and Edwards have, we think, pretty fully settled the question; and there is hardly room to doubt that they are simply the plant in one stage of its growth.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, March 24, 1860:—

P. M., of Mass., \$30; W. T., o1 N. Y., \$30; J. A. McC., of Ky. P. M., of Mass., \$30; W. T., o1 N. Y., \$30; J. A. McC., of Ky., \$25; W. McA., o1 Mich., \$30; A. B., of N. J., \$30; W. J. A., of Tenn., \$30; H. E. W., of N. Y., \$30; J. M. F., of N. C., \$55; H. K., of Il., \$30; N. H. G., of Conn., \$30; H. A. H., of N. J., \$25; C. F. B., of R. I., \$90; H. W. W., of Mass., \$46; R. J. G., of Ind., \$30; N. S. G., of N. Y., \$30; D. C. J., of N. Y., \$30; J. I., of N. Y., \$30; J. D. M., of N. Y., \$30; J. H. D. & Co., of Texas, \$30; C. & B., of Iowa, \$25; P. G. McC., of Pa., \$30; J. S., of N. Y., \$25; J. S., of Ill., \$30; W. S. M., of N. Y., \$30; J. C., of Mass. \$30; M. M., of Mo., \$10; J. E. E., of Pa., \$50; J. P. K., of Wis., \$25; B. W. B., of Wisa, \$25; C. P. G., of Ill., \$30 W. T., of Ind., \$25; T. H. W., of Mass., \$30; E. F. R., of N. Y., \$30; R. F. O'B., of Mo., \$25; T. P., of Idd., \$55; W. J. T., of Cal., \$30; E. E., & D., of Mass., \$10; G. W. B., of Mass., \$55; A. H., of Ky., \$25; W. C., of Iowa, \$20; C. W. B., of Mass., \$55; R. A., of N. Y., & D., of Mass., \$10; G. W. B., of Mass., \$25; A. H., of Ky., \$25; W. C., of Iowa, \$30; C. W. B., of Mass., \$35; A. H., of Ky., \$25; W. C., of Iowa, \$30; C. W. B., of Mass., \$35; R. P. A., of N. Y., \$30; D. & S., of N. Y., \$25; J. P. F., of N. Y., \$30; F. B. B., of N. Y., \$250; M. C., of N. Y., \$30; A. H. R., of Pa., \$30; C. W., of Mass., \$25; I. N. W., of Ill., \$25; C. S. I. of Ind., \$25; A. K., of Ill., \$15; G. W. W., of Ind., \$30; H. A. M., of Ill., \$30; P. & H., of Canada, \$465; J. P. H., of I.a., \$20; A. W. W., of Conn., \$30; W. F., of Mass., \$60; P. J., of N. Y., \$25; J. S. H., of Ky., \$25; J. M. C., of S. C., \$30; J. B., of Mass., \$25; G. & B., of Conn., \$12; P. V. W., of Mich., \$30; B. & B., of Mass., \$55; H. C., of N. Y., \$35; J. H. L., of N., \$25; G. W. T., of N. Y., \$25; J. R. T., ot L. I., \$35; D. E., of Ill., \$55; A. II., of Ohio, \$30; W. B. of N. Y., \$275; J. B. J., of L. I., \$30; S. T. McC., of Ga. \$25; L. B., of Ill., \$30; W. H., of Ohio, \$35; J. M., Jr., of N. Y., \$70; T. J. M., of Pa., \$15; C. R. S., of Vt., \$25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 24, 1860:-

Office during the week ending Saturday, March 24, 1860:—

A. S., of N. Y.; C. W., of Mass.; W. W. H., of N. Y.; H. K. of Ill.; W. I. T., of Texas; N. S. G., of N. Y.; G. & B., of Conn.; C. R. S., of Vt.; J. R. T., of L. I.; G. W. T., of N. Y.; J. S., of N. Y.; R. F. O'B., of Mo.; S. McQ., of Ill.; I. N. W., of Ill.; T. J. M., of Ind.; G. W. T., of N. Y.; W. H., of Ohio; D. E., of Ill.; A. H., of Ky.; D. & S., of N. Y.; J. B., of Mass.; H. A. Il., of N. J.; H. W. W., of Mass.; B. W. B., of Wis.; J. B., J., of N. Y.; L. K. S., of Conn. (2 cases); H. C., of N. Y.; S. T. S., of Mass.; J. II. L., of N. Y.; G. W. B., of Mass.; W. T., of Mich.

Literary Notice.

MUSPRATT'S CHEMISTRY OF ARTS AND MANUFACTURES. Published by C. B. Russell & Bro., Boston, and No. 290

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IMPORTANT TO INVENTORS.

THE GREAT AMERICAN AND FOREIGN PATENT AGENCY,—Messrs. MUNN & CO., Proprietors of the Scientific American, are happy to announce the engagement of Hon, Judge Mason, formerly Commissioner of Patents, as associate counsel with them in the prosecution of their extensive patent business. This connection renders their facilities still more ample than they have ever previously been for procuring Letters Patent, and at-tending to the various other departments of business pertaining to patents, such as Extensions, Appeals before the United States Court, Interferences, Opinions relative to Infringements, &c., &c. The long experience Messrs. Munn & Co. have had in pre-paring Specifications and Drawings, extending over a period of

paring Specifications and Drawings, extending over a period of fourteen years, has rendered them perfectly conversant with the mode of doing business at the United States Fatent Office, and with the greater part of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawi g and description to this office.

Consultation may be had with the firm, between NINE and FOUR o'clock, daily, at their PRINCIPAL OFFICE, NO. 37 PARK ROW, New YORK. We have also established a BRANCH OFFICE in the CITY OF WASHINGTON, on the CORNER OF F AND SEVENTH-STREETS, opposite the United States Patent Office. This office is under the general superintendence of one of the firm, and is in daily communication with the Principal Office to all such cases as may require it, Inventors and others who may visit Washington, having business at the Patent Office, are cordially invited to call at their office.

They are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business they have Offices at Nos. 66 Chancery Lane, London; 29 Bouleward St. Martin, Paris, and 26 Rue des Eperonniere, Brussels. Wethink we may safely say that three-fourths of all the European Patents secured to American citizens are procured through our Agency.

Inventors will do well to bear in mind that the English law does

not limit the issue of Patents to Inventors. Any out.

Patent there.

A pamplet of information concerning the proper course to be pursued in obtaining Patents through their Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. They also furnish a Circular of information about Foreign Patents.

The annexed letters from the last hrea Commissioners of Patents we commend to the perusal of all persons interested in obtaining Patents:

Labour Densure in stating that while I held

we commend to the perusal of an person and the person patterns.—

Messrs. Munn & Co. — I take pleasure in stating that while I held the office of Commissioner of Patents, morethan one-router of all the public confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the Office, a marked degree of promptness, skill, and fidelity to the interests of your employers.

CHAS. MASON.

CHAS. MASON.

Immediately after the ambilithent of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subloined very gratifying testimonial:

Messrs, Munn & Co. — It affa'ds me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and, I doubt not, justify deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully, Your obedient servant, J. HOLT.

Messrs.. Munn & Co..—Gentlemen: It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency, and that I have ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully,
Your obedient servant, WM. D. BISHOP.

Communications and remittances should be addressed to

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To all Ollin's MECHANICS.—D. APPLETON & CO, IVI Nos. 246 and 348 Broadway, New York, have just published Fundamental Ideas of Mechanics and Experimental Data. By A Morin. Revised, translated and reduced to English units of measure. By Joseph Bennett, C.E. 1 vol., 8vo., \$3. Sent free by mail or receipt of price.

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