damp formed of the head, D, and disk, f, arranged substantially as and for the purpose set forth.

Second, In combination with the pressure roller, L, head, D, and disk, f the ring or hand, E, provided with the pins or stripes, i, the cocket, F, provided with the screws or pins, i, and the guide plate, C. arranged for joint operation as and for the purpose described.

Third, The arrangement of the pressure lever, H, and sliding mandrels, B C, for the purpose specified.

Fourth, The employment or use of the folding device formed of the plate, N, provided with the ledge, u, and the pivoted bar, v, when said folding device is used in connection with the pressure roller, L, rotating head, D, and disk, fafor the purpose set forth.

[This invention relates to a machine that is designed to facilitate the manufacture of paper boxes, and consists in the employment or

the manufacture of paper boxes, and consists in the employment or use of a rotating clamp, gage or socket, discharging ring, pressure roller and guide: the parts being so arranged and used in connection with a folding device, that the manufacture of the above-name boxes is greatly expedited and the work done in a perfectmanner.]

25,374.—Joseph Wesley (assignor to Joseph B. Wesley), of Providence, R. I., for an Improvement in Skele-

ton SKITS:

I claim a new article of manufacture, to wit, a skirt having its hoops supported by tapes or straps, which are rendered adhesive by the application of cacutchout or gutta-percha, in the manner and for the purpose with stantially as described.

This in vention consists in a skirt having its hoops secured to their suspending straps, at their several points of intersection, by the application of india-rubber, gutta-percha, or their equivalents, in an adhesive condition between the hoops and two plies of which the straps, or those parts of them which cross the tapes, are composed. The skirt thus made constitutes a new article of manufacture, and is more durable than any other kind.]

#### RE-ISSUES.

William S. Lavely and James M. Coooper (assignees of Josiah Ells), of Pittsburgh, Pa., for an Improve-ment in Revolving Fire-arms. Patented Aug. 1,

We claim, first, The use of a stud in the trigger vibrating laterally in combination with abevel-edged hammer, for the purpose of raising the hammer to full cock and fining the piece by simply pulling the trigger, which, after the discharge of the piece, will regain its position for repeated action, or (as a mere modification of arrangement) the use of a stud in the hammer vibrating laterally, in combination with a bevel-edged trigger, for the purpose specified.

Second, The use of a bevel-edged hammer, with or without a notch in its toe, and trigger with vibrating stud and cam for the trigger spring, constructed and arranged subsantially as described, for the purpose of causing the hammer, trigger and revolving breech to assume their proper relative positions at full cock by simply pulling the trigger, and retaining them in that position and securing the breach from rotation or displacement preparatory to firing.

Third, The notch or depression in the toe of the hammer at the point of contact of the stud and edge of the hammer, in combination with the laterally vibrating stud, for the purpose of preventing the slipping of the stud and the more easy retention of the hammer at the point of full cock.

Fourth, The mode hereinbefore described of locking both the trigger, in combination with the hazagonal neck of the rotating breech, which nevertheless permits the breech to be freely rotated by hand or otherwise when the trigger is not drawn back.

Fifth, The use or a double trigger spring or spring and lever, for the purpose set forth.

Henry Jenkins, of Cincinnati, Ohio, for an Improved Ornamental Connection of the Parts of an Iron Fence. Patented Jan. 30, 1852:

I claim forming the ornament or cast-iron connections for a railing, fence or other article of iron, cast into a divided iron mold, substantially as and for the purpose specified.

Jacob H. Mumma, of Harrisburgh, Pa., for an Improvement in Straw-cutters. Patented Jan. 26, 1858:
Iclaim, first, The combined application to straw-cutting machines of achangeable feedgear, with two-edged revolving cutters or blades, when so made as that, by changing them end for end on their arms or suppports, they shall bring a different cutting edge into action, or when run in either direction, shall always feed in the material in one and the same direction, substantially as and for the purpose stated.

I also claim the combination of feed rollers acted upon by tappets and the crushing rollers controlled by gum elastic springs, when arranged in relation to, and acting in connection with the cutting apparatus, as described and represented.

John W. Marsh, of Oxford, Mass., for an Improvement

John W. Marsh, of Oxford, Mass., for an Improvement in Sewing Machines. Patented Oct. 27, 1857:

I claim, first, The combination of the stide, A, provided with ite guard, E, and its slot or slota, C D, with the foot-piece, M, with its guide, N, and slots, arranged and operating substantially as desoribed.

Second, I claim the combination with the sewing apparatus, or its equivalent, of a movable knife operated by a connection with the sewing machine, so as to trim or cut the work whilst being sewed, substantially in the manner and for the purposes as set forth and desoribed

## DESIGNS.

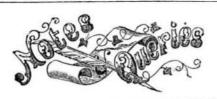
Philo B. Gilbert, of New York City, for a Design for the Handles of Spoons and Forks.

Elmira J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a Design for a Carpet Pattern.

History of the Scientific American and Important Information to Patente

We have printed a supplementary edition of the SCIEN TIFICAMERICAN, in which there is a history of its rise and progress with illustrations of the building, externally and internally, with illustrations of the building, externally and internally, show-ing the spacious rooms in which our immense patent business is conducted, and with life-like representations of the artists, engi-neers and specification writers at their daily labors. The same pa-per contains information on the many intricate points arising in patent law and practice, and comprises the best popular treatise on the subject ever published; it should be in the hands of all who are interested either in procuring, managing or using patented inventions. The legal information contained in this paper is the result of FOURTEEN YEARS' experience as patent solicitors, and it cannot be found in any other treatise on patent law. It also contains information in regard to Foreign Patents and Extensions. It is published in octavo form, sixteen pages, and malled upon receipt o two three-cent stamps. Address Munn & Co., publishers of the Sci ENTIFIC AMERICAN, New York City.

Back numbers of the Scientific American, to the commencement of the New Series (July 2), are in all cases sent to new subscribers, unless the person ordering them directs to the contrary. Our object in so doing is that subscribers may have the volume complete, which nearly all desire.



A. K. E., of Mass.-By an Act of Congress the whole matter of copyright for books, pamphlets. works of art, labels, &c. has been placed under the supervision of the Commissioner of Patents. His construction of the law is likely to interfere with the Patents. His construction of the law is likely to interfere with the venders of patent medicines and some other tradesmen who have been in the habit of copyrighting labels for their bottles and boxes. The Commissioner decides that when a production is issued as a work of art, and is intended for sale as such, it maybe copyrighted: but that when not produced for sale as a work of art, but evidently for a label, it falls under the patent laws. A copyright costs fifty ents, and gives a monopoly for twenty years, whilst a patent co 15, and gives a monopoly for but seven years; on applications patents for such designs, drawings and a specification are neces sary. We are prepared to undertake your case, and to prepare all the papers whenever you are ready to proceed.

D. M., of Ill.—Your rotary engine is an entirely impracticable t ing. You may get a rotary motion of the wheel by the mere impact of a jet of steam acting on the concave surfaces of the buckets, but without an abutment for the pressure of the steam to act against you will get no available power. With the addition of such an abutment you will have one of the oldest forms of rotary engines which, with various modes of applying the abutment, is de-scribed in the earlier numbers of Vol. IV of the SCIENTIFIO AMERI-CAN, under the caption of "History of the Rotary Steam-engine."

L. I., of Ind.—The mathematical problem you present for our solution is by no means a difficult one. The area is equal to 537.940 square feet, or 12 acres and 56 square rods.

you are entitled to a patent for it. Until your plan is clearly described to us, we cannot pronounce an opinion regarding it.

J. J., of Conn.—The parties who build, or use, or sell a patented machine are liable to prosecution. They may be prosecuted either separately or collectively.

M. G., of Md.—All the wine exported to this country contains some spirit for the purpose of preserving it; brandy is generally used for this object. This spirit is also frequently adgenerally used for this object. This spirit is also frequently ad-ded to blackberry wine, but it is not absolutely necessary if the wine is bottled, sealed, and kept in a coolcellar.

C. C. S., of Vt.—Cast-iron water-pipes will not last so long as those of lead; and small wrought-iron pipes endure but a very short time. The tincture of iodine diluted with one-half its bulk of water, is a superior liquid for browning gun barrels.

J. W. H., of Iowa.—Blanchard's patent for turning irregular forms will not expire until January 20, 1862.

J. H. C., of Ga. - You will find knitting-machines aded in our columns. A planing-machine can be purchased of S. C. Hills, 12 Platt-street.

S. H., of Maine. - Why a cold stove, which had been in use two years, should break across the top, and in 15 minutes crack the second time, belongs to a very mysterious department of nature, the molecular change in solid substances. The wroughtiron axles of railroad-cars have sometimes been found, after long use, to present a decidedly crystalline structure. Reries at first amorphous, but gradually crystallizes while retaining the solid state. But why this change takes place nobody knows,

F. H. A., of Mass.—There is no rain in the upper portions of the atmosphere. If, even in the tropics, we ascend three miles into the air, the rays of the sun seem to have lost their power, and we shiver with the cold. If the moisture is here condensed at all, it is in the form of hail or snow, which melts into rain only after it has fallen into the lower and warmer air. Warm air will hold more moisture than cold air; and when warm air that has become saturated with moisture is cooled, a portion of the water is squeezed out of it, and falls, in the form of snow, hail or rain.

C. F. S., of N. C.—Charcoal dust mixed with night-soil will render it inodorous, without injuring it as a manure. Quick-lime or sulphuric acid will also destroy the smell with some dam-age to the manure. We have just received a recent French periodical which contains a detailed description of a new process for ren-dering night-soil inodorous, and preparing it for transportation; but the account is too long for our columns. The substances used are charcoal, sulphuric acid, muriatic acid, and salt,

F. J. J., of Conn.-Tidal wheels are nearly like the un-They are constructed in a similar manner, and have dershot kind. They are constructed in a similar manner, and have straight radial buckets. They answer very well for some situations but can only be used during certain hours each day. In several places on Long Island these wheels are still used on the salt creeks; there is a very aged one (which is sometimes employed for grinding plaster) on Newtown Creek, in Williamsburgh, N. Y.

A. W., of Maine. - We cannot refer you to any person in London connected with the painting of dissolving-views on exhibition at the Polytechnic Institution of that city.

H. W., of N. H.—You will find a full description of Hill's Air Light on page 109, Vol. XIV, SCIENTIFIO AMERICAN. It will be well for you and others desiring information on this subject, to read the article referred to with attention.

H. C., of N. J.-A little oil of cloves poured into a bottle containing gum mucilage prevents the latter from becoming sour and putrid; this essential oil possesses greatantiseptic powers.

G. B., of N. Y.-We do not understand the principle of vegetable life, nor do we know any person who doos. This is one of those secrets of nature which she has not yet revealed to man, and believe, he never can comprehend.

J. A., of Ill.-It would take up too much of our space to describe the construction of the engines of the frigate "General Admiral." In Vol. XIV. SCIENTIFIC AMERICAN, you will find a parrial account of their dimensions. There have been some works on propellers published in London. M. G. F., of N. Y .- The black enamel to which you refer on iron mantel-pieces is composed of a paste of protoxyd of iron and cobalt put on the metal and fused in a proper oven. Common blackmantel-pieces are colored with asphalt varnish. Several coats are put on as a base, and when dry are rubbed down, and a finishing coat of copal is put on.

C. S. G., of Ga. - You may freely make the matches described in No. 7, this volume, without phosphorus, while the for-eign inventor has no patent. They are somewhat dangerous to make like all other friction matches. We do not know where agate as are manufactured in this country. They are not made of the natural agate, but variegated glass.

W. P. B., of Del.—It requires about an equal amount of heat to evaporate a certain quantity of water, whether under low

C D., of Conn.—Rough brass castings may be rendered bright by scouring them in a warm bath of dilute sulphuric or uriatic acid, then washing them in warm water.

J. Y., of Mo.—Ocean cables having parallel instead of spiral wires, and arranged as in your sketch, have been proposed several time

W. C., of Del.—There is no reliable work published on stillation of turpentine, as practiced at the present day.

F. P., of S C.—The deep red color of bricks is produced by a small quantity of the red oxyd of iron in the clay. This may by a small quantity of the red oxy of roof in the ray. This may be imitated by art, by mixing about one ounce of the powdered per-oxydot iron with the clay in the pug-mill. The cement which is placed on brick-work to imitate stone is composed of clean sand, 90 parts, 5 parts of litharge and 5 parts of plaster of Paris, moistened with boiled linseed oil. The bricks receive two or three coats of oil heforethis cement is applied, and it requires considerable skill to lay it ob. It soon becomes hard, and resembles brown freestone.

E. J., of N .J.—Attempts have been made to set tile-drains at one continuous operation of ditching and pipe-laying. A plow called a mole, having a sharp conical point was employed to cut the drain, and to it were attached the tiles strung upon a rope or chain drain, and to it were attached the tiles strung upon a rope or cliain drawn behind and laid down in the drain. This machine was defective in principle, because the tiles were dragged the whole length of the furrow. If you can invent a machine to set tile drains economically you will do well with it. Chains can be made of cast-steel as well as of cast-iron, and for some purposes they may be superior, because they could be made lighter and be equally as

#### Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Sept. 10, 1859:— J. B., of N. Y., \$30; C. & L., of N. C., \$25; J. K. D., of N. Y., \$30;

G. K., of Pa., \$15; W. G., of N. Y., \$15; J. A., of La, \$25; W. P. C. of Ind., \$10; H. S., of Conn., \$25; R. T. C., of Il., \$25; T. S. B., of N. Y., \$10; W. B., of Ohio, \$25; T. S. S., of Conn., \$57; J. B. B., of N. Y., \$30; L. G. K., of N. Y., \$25; M. P., of N. Y., \$25; R. E., of Van., \$30; L. G. K., of N. Y., \$30, P. & B., of Ill., \$32, D. W. G. H., of Maine, \$25; E. C., of Vt., \$60; J. M. C., of N. Y., \$75; G. H. P., of Ga., \$30; L. J., of Mich., \$30; J. B. F. P., of Me., \$23; G. B. S., of N. C., \$35; L. R. P. of Me., \$20; G. B. S., of N. C., \$35; L. J, of Mich., \$30; J. B. F. P., of Me., \$23; G. B. S., of N. C., \$35; L. A. B., of N. Y. \$30; F. S., of Mich., \$25; J. McN., of N. Y., \$30; J. C., of Mass., \$30; A. C. K., of N. Y., \$25; C. M., of N. C., \$30; L. H. F., of Pa., \$30; W. B. Sr., of N. Y., \$30; A. M., of N. Y., \$30; A. P. A., of Ala., \$30; O. B. B., of Ill., \$30; J. W. C., of N. Y., \$300; W. N. R., of N. Y., \$30; O. C. McC., of Ohio, \$25; C. H., of L. I., \$30; B. H. C., of Wis., \$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. 10, 1859:—
L. G. K. of N. Y.; L. L. of N. Y.; J. A. of La.; D. W. G. H. of Maine; J. G. of N. Y.; A. C. K. of N. Y.; J. C, A. of Ohio; J. B. F. P. of Mo.; H. S. of Conn.; O. C. McC. of Ohio; G. B. S. of N. C. (two cases); M. P. of N. Y.; J. B. of N. Y.; B. C. II. of Wis.; R. T. C. of Ill.; F. S. of Mich.; J. W. C. of N. Y.

# Literary Notices.

We have received from the re-publishers. Messrs. Leonard Scott & Co., of this city, the July number of the "London Quarterly Review," and the August number of the "North British." Macaulay says:—"Her noble literature is the greatest of the many glories of England." And certainly at the head of this literature stand high tories; the "Westminster," the organ of the church and high tories; the "Westminster," the organ of the radical democrats; the "Edinburgh," of the moderate whigs; and the "North British," of the Free Church of Scotland. We always welcome the "London Quarterly for its masterly articles on science. The July number has an article on geology which furnishes, in the compass of half-an-hour's reading, just those general facts in regard to this sublime and interesting subject which every man wants to know.

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VARNISH.—Any person sending me \$1 will receive my recipe
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### IMPORTANT TO INVENTORS.

AMERICAN AND FOREIGN PATENT SOLICIAMERICAN, continue to procure Patents for Inventors in the United St tes and all foreign countries on the most liberal terms. Our experience is of thirteen years' standing, and our facilities are unequaled by any other Agency in the world. The long experience we have had in preparing Specifications and Drawings has rendered us perfectly conversant with the mode of doing business at the United States Patent Office, and with most of the inventions which have been patented. Information concerning the patentability 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 NINE and FOUR O'Clock, daily, at their Principal Office, No. 37 PARK ROW, NEW YORK. We have also established a BRANKH OFFICE in the CITY OF WASHINGTON, on the CORNER OF FAND 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

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 in New York, and personal attention will be given at the Patent 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 our office. We are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of Patents is new offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris, and 28 Rue des Eperonniers, Brussels. We think we may safely say that three-fourths of all the European Patents secured to American citizens are procared through our Agency.

nergenerors will do well to bear in mind that the English law does limit the issue of Patents to Inventors. Any one can take out a tent there.

I pannyalet of information concerning the proper course to be purely in obtaining Fatents through our Agency, the requirements of Patent Office, dc. may be had grates thou application at the nichal Office or either of the Branches. We also furnish a Circuof Information about Foreign Patents.

The annexed letters from the last two commissioners of Patents commend to the perusal of all persons interested in obtaining letters:

The annexed letters from the last two ommissioners of laweling Patents:

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

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

Messrs. Munn & Co. :—It affords 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 homor of holding the office of Commissioner. Your business was very large, and you sustained far.d., I doubt not, justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully,

Your obedient servant, J. HOLT.

Communications and remittances should be addressed to

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erected last year by Fas companies in several States and in
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CALIFORNIA AGENCY FOR PATENTS.—
WETHERED & TIFFANY, San Francisco, will attend to the sale of patent rights for the Pacific coast, References:—Mess ra Tiffany & Co., New York; Wethered, Brothers, Baltimore; George W. Bond & Co., Boeton.

PECK'S PATENT DROP PRESS.—THE MOST perfect machine in use for the manufacture of silver, copper or tinware, spoons, jewelry, &c. Manufactured by the patentee.

4 22° MILO PECK & CO., New Haven, Conn.

A PPEALS BEFORE THE JUDGES OF THE U.S. District Court, from the final decisions of the Patent Office, in Rejected Cases, Interferences, &c., are prosecuted by the undersigned on moderate terms.

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PATENT EXTENSIONS.—ALL PATENTS FOR Inventions, granted by the United States during the year 1845, will grapine by their own identitations during the current year (1869) UNITED REPORTS TO LAW. The statute provides for the extension of Fatents for an additional term of SEVEN YEARS, the grant being made to the inventor himself, or if deceased, to his heirs and administrators. The EXTENSION TERM Innere solely to the benefit of the inventor or his heirs. Assignees or owners of rights under the first term of the Patent have no rights whatever in the extended term. The inventor or his heirs may, however, sell their interests in the Extension prior to the grant thereof, in which case the Extended Patent, when granted, becomes the exclusive property of such purchaser. Applications for Extensions must be made at the Patent Office at least 65 days prior to the extension of the Patent. The undersigned, having had great experience in Patent business, will promptly prepare the various documents and prosecute Extension cases on moderate terms. For further information addr ss

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