44,679.-Harvesters.-Julius Thompson, of New York

44,679.—Harvesters.—Julins Thompson, of New York City:
First, I claim a main frame of a harvesting machine, constructed with a tubular socket for the axle of the running wheels, in such a manner that the said socket performs the double function of sus-taining the said axle and of stiffening the frame transversely, sub-stantially as set forth.
Second, I also claim a main trame of a harvesting machine, con-structed with a socket for the tongue, in such manner that the said upon all of its sides and stiffening the frame longitudinally, sub-structed with a socket for the tongue, in such manner that the said upon all of its sides and stiffening the frame longitudinally, sub-structed with a socket for the tongue, in such manner that the said upon all of its sides and stiffening the frame longitudinally, sub-structed with a sock for the tongue, in such manner that the said to the frame of the machine, substantially as set forth.
Fourth, I also claim the combination of two of the course of a saw-toothed spring clutch, so that the coutter with each other by means of a saw-toothed spring clutch, so that the coutter learer the clutter maain stationary when the machine is backed, and that the clutter maain stationary when the machine is backed, and that the clutter main stationary when the machine is backed, and that the clutter main rame by means of ups and one of the shafts of the cutter gear, in such manner that the said shaft performs the double func-tion of pinion, shaft and joint pin for the linge joint, substantially as set forth.
Sixth, I also claim the mechanism for raising and lowering the cut-

tion of pinion, shart and your pinion pinion as set forth. Sixth, I also claim the mechanism for raising and lowering the cur ter bar, consisting substantially of a winch, vibrating lever and saw toothed clutch, combined together and operating substantially as se

toothed clutch, combined together and operating substantially as set iorth. Seventh, I also claim the combination of the bevelled wheels to-gether, by means of langes which each other and pre-vent the separation of the teeth of the wheels by movement in the direction of the axis of the wheels, substantially as set forth. Eighth, I also claim the combination of the driving pulley of the reel with the grain wheel, by means of a spring clutch, in such man-ner that the revolution of the reel stops whenever the said grain wheel runs backward, substantially as set forth. Ninth, I also claim the combination of a hollow reel shart with a rod that connects the upper ends of the reel standards, so that the red turns upon the said rod.

44,680.—Apparatus for Handling Vicious Horses.—Owen Turner, of Clinton, Wis.:
 Iclaim, first, A harness adapted for correcting vicious habits in animals, which consists of a fetlock strap, a, controlling rein, A, fet-lock strap, d, and girth, B, applied and operating substantially as de-scribed.

Second, The elastic-supporting strap, C, in combination with the controlling strap, A, when the latter is arranged substantially as and for the purpose described. Third, The combination of the controlling rein, A, fetlock straps, a and d, and looped girth, B, with a supporting strap, C, substantially as and for the construction of the fetlock strap, a, for the front foot, with a pulley, b, applied to it in such a manner as to allow the constrainable as escribed.

44,681. -Mechanical Movements.-Maximilian Wappich

44,681.—Mechanical Movements.—maximination approx, of Sacramento, Cal.: I ciaim, first, A spiral thread, partaking closely of the character of a compound wedge, but in ferm lentcular, substantially as and for the purpose herein de-cribed. Second, In combination with a pin wheel a spiral lenticular thread which will practically operate upon two or more of the pins of said wheel at the same time, substantially as set forth.

44,682.-Horse-hay Forks.-J. L. Wells, of Stockbridge, New

York New York. I claim, first, The curved or concave cast-from head, A, provided with the arms, B B, to operato in connection with the catches, G G, and beam, C, substantially as and for the purpose set forth. Second, Attaching the tines, F, to the head, A, by means of the polts, c, and notches, f, as described. Third, The straps, L L, attached to the beam, C, as shown, when used in combination with the arms, B, B, and beam, C, substantially as and for the purpose set forth.

[This invention relates to a new and improved mode of construct ing the fork generally, whereby great strength may be obtained, the load readily discharged, and device rendered capable of being easily managed by the operator.

44,683.—Apparatus for Preserving Provisions.—Charles Winship, of New Haven, Conn.: I claim conducting cooled air to and causing the same to circulate through a chamber, substantially as specified.

through a chamber, substantially as specified. 44.684.—Method of Stopping Bottles.—Albert Albertson, (assignor to J. N. McIntyre) of New York City: I claim, inst, The employment in combination with a bottle hav-ing the interior of its neck suitably formed to receive it of a stopper constructed to operate in closing and unclosing the bottle, substan-tially as described. Second, I claim so constructing the valve, c, and the mouth of the bottle that the former may be readily forced through the latter in one direction, and incapable of easy passage through the latter Third, I claim making the entire stopper of such a length that it cannot turn over in the body of the bottle, as and for the purpose set forth

44,685.—Apparatus for Filling Bottles.—Albert Albert son, (assigner to J. N. McIntire) of New York City : I claim filling and closing the filled or supplied bottles substantially as set forth, by the gravitation of the stopper.

as set forth, by the gravitation of the stopper.
44,686.—Running Stitch Sewing Machines.—John D. Dale, (assignor to hinnself and A. M. Badger) of New York City:
I claim, first The combination of the clamping levers, E and D, with the rolling needle stop, A A', operating substantially in the manner and for the purpose set forth.
Second, I claim the relief tooth wheel, in combination with yielding feed rollers, B B, and reciprocating cloth guide, C, substantially in the manner and i or the purpose set forth.
Third, I claim the manner described, or its equivalent, for clamping and holding a common sewing needle firm enough to prevent its silipping while the cloth is being pulled off.
44,687.—Apparatus for Cutting and Crossing Beauty for the set of the s

Suppose while the coords is being pulled off.
 44,687.—Apparatus for Cutting and Creasing Paper for Envelopes, etc.—Martial Dimock, of Newark, N. J., assignor to Fitch, Estee & Co., of New York City: I claim the countersink, G. Fig. 4, with ekstic bed, and the die, F.
 Fig. 3, with projecting blades, H. to indentor partally sever the pa-per or other maternal used (for the purpose of facilitating the folding thereof), constructed and operated substantially as and for the pur-pose set forth.

pose set forth.
44,688.—Machine for Paring the Edging of Boots and Shoes.—Horatio Hodges, (assignor to himself and David Waldy) of Lynn, Mass.:
I claim the rotary or sole edge cutter or combination of the cannu-lar bur and the guard or guide, arranged together and on a shaft, as pecified.

nded. also claim the combination of the tubular split, tapering shank its serew and nuts, with the bur and the guide or guard, the ble being arranged together substantially as specified.

44,689.—Caster for Trunks.—Henry T. Lee, (assignor to himself and David Frost) of Jersey City, N. J.: I clam the flanged rocket, D, in combination with the easter, E, spring, C, and cap, A, constructed and operating in the manner and for the purpose substantially as set forth.

This invention consists in a yielding spring caster, applied in com-bination with a cap, forming a cavity to receive the spring and shank of the caster, in such a manner that by the cap the cover of the trunk or other article to which it may be attached is prevented from of the caster, and prevents the same time the cap forms a guide for the sharh of the caster, and prevents the same being exposed to a latera strain.]

44,690.—Machines for Making Boxes. -Thomas C. Lu-ther, of Lee, Mass., assignor to the American Flask and Cap Compuny, of Waterbury, Conn.: I claim the stationary rollers, G G, in connection with the movable or adjustable roller, I, and belt, J, all arranged to operate substan-tially as and for the purpose herein set forth.

I further elaim the box, D, and roller, E, in connection with the rum, C, and the rollers, I GG, all arranged to operate substantially s and for the purpose herein set forth.

as and for the purpose herein set forth. [This invention is more especially designed for putting the covering on external paper band or cylindrical paper boxes, for the purpose of securing the top and bottom to the body of the box. It may wever, be used for covering wooden or sheet-metal cylindrica boxes.]

44.691.

44,691.—Pegging Machine.—Joseph F. Sargent, (as-signor to Elmer Townshend) of Boston, Mass.: I claim in a pegging machine the employment of a jack, so con-structed or mounted that it can turnior be turned latteral, to hold the shoe properly to the action of the awl, throughout its varying lateral curvature. I also claim so organizing the jack with the levers or system of levers supporting it that the jack is turned automatically, to bring the shoe laterally into position for the proper insertion of the awl and peg.

ring peg

and peg. I also claim operating the swing piece by the eccentric, to produc⁶ the feed and transfer of contact, substantially as set forth. Also the combination of the eccentric for operating the swing piece with the cam and spring for operating the driver bar. I also claim giving the swing piece, k, a simultaneous lateral and vertical motion, substantially as and for the purpose set forth. I also claim the employment of the swinging brake, e2, operating upon the wheel, c2, substantially as specified. I also claim so constructing and applying the feed-foot, as to oper-ate in the same vertical plane with the retainer (instead of through as set forth. I also claim the construction by which the blow of the awl and peg driver bar is a arrested at the bar of the same vertice. I also claim the construction by which the blow of the awl and peg driver bar is arrested at the bottom of the swing plate, substantially

as described. And in combination with an awl bar (or an awl and peg driver bar, having its downward movement imparted by a spring), I claim the method of regulating the force of the blow given to the bar by an adjusting screw, o2, substantially as shown and described.

an adjusting screw, o2, substantiany as shown and described. 44,602.—Priming Cartridges.—Charles Edward Snelder (assignor to himself and Thomas Poultney), Balti-more, Md.: I claim, first, In combination with a cartridge which is exploded by an end blow upon a pin reaching the fulminate or cap on the base of the ball, making the cartridge case extend out as far as the point of the ball, so as to abut against the rear end of the barrel and pre-vent the forward motion of the ball or its protrusion into the bore previous to firing. Second; I claim the combination of the recessed end of the cart-ridge case and the central cartridge pin, which form a gas-tight joint by the contraction of the reas of the case around the pin, un-der the force of the uscharge.

44,693.—Buckle for Harness Tugs.—Richard Tattershall (assignor to himself and A. J. Battin), Belvit Wis.: I claim the frame, A, provided or cast with the plates, c c d, in com-imation with the clamp, B, fitted in the frame, A, as shown, and the ever plate, C, provided with the eccentric projection, D, fitted to the par, e, substantially as and for the purpose herein set forth. 44.693.

This invention relates to a new and improved buckle for harnes tugs, wherein the use of a tongue is dispensed with and conset the perforating of the trace.] quently

44,604.—Car Truck.—Charles D. Tisdale, East Boston, Mass., assignor to himself and Joseph H. Clapp, Boston, Mass.:

Boston, Mass.: I claim the new or improved wheel locking mechanism, or combi-nation consisting of the double-catch, D, the elastic band, E, and cither one or two grooves, c d, and applied to the wheel sleeve and axle, and so as to operate therewith substantially as herein specified 44,695.—Cigars.—S. Davis, Montreal, Canada: I claim as a new article of manufacture a medicated segar com-posed of tobacco leaves mixed with the leaves of belladonna, in the manner and proportions herein specified.

[This invention consists of segars made of a composition of co leaves mixed with a small quantity of the leaves of bella on of toba digitalis, or other similar medical plants, in such a manner that the ecifics contained in said plants are introduced into the system of the human body together with the tobacco sn oke in a finely divid state, and thereby the healing qualities of said plants are enabled to exert a much more powerful effect than they can when introduced into the system in the ordinary manner.]

44,696.—Propeller and Steering Apps.—Henry Ressel, Vienna, Austria: I claim, first, The studs, f, and segmental grooves, e, applied in combination with the socket, c, and globe, d, and with the shalts, C and F, in the manner and for the purpose substantially as set forth. Second, The use of the cap, h, in combination with the ball and socket joint, G, and shafts, C and F, applied and operating substan-tially as and for the purpose described. Third, The grooves, i, and rings, j, applied in combination with the ball and socket-joint, G, propeller screw, A, shafts, C and F, and frame, B, in the manner and for the purpose substantially as set forth.

10rth.
44.697. — Ventilating Sweat Leather for Hats and Caps.
—A. H. Taylor, San Francisco, Cal.:
I claim, first, The application to a hat or cap of a corrugated sweat lining, said corrugations running diagonally with the plane of the under side or rim as shown in the drawings, the corrugations running diagonally with the exception of a portion in front, which is smooth to fit the forehead.
Second, I claim che smooth part or the lining in front in combination with the diagonai corrugation, as described.
Third, I claim corrugating as weat lining, in the manner shown and specified (as occupying the complete inner circle of the hat or cap, with the exception of the portion in front, which is made smooth to fit the forehead of the wearer), substantially as shown and set forth herein.

RE-ISSUES

1,790.-Horse-shoe.-

1,790.—Horse-shoe.—O. A. Howe, New York City. Pa-tented Sept. 15, 1863 : I claim a horse-shoe provided at its under or face side with a groove, having pendant projections or their equivalent within it to iold a filling of india-rubber or any other suitable material, substan-tially as herein set forth.

-James Leffel, Springfield, Ohio 1,791.—Water Wheel.—Jam Patented Jan. 14, 1862 :

Patented Jan. 14, 1662: Patented Jan. 14, 1662: I claim, first, The above described wheel, constructed with two m-dependent sets of buckets, a and b, the former baving a central, and the latter a vertical discharge, substantially as described. Second, I claim constructing and arranging the annular diaphragm, D, to operate in the manner and for the purpose herein set forth. Third, In combination with the diaphragm, D, I claim the verti-cally discharging buckets, b, when constructed and arranged to oper ate as and for the purpose set forth. Fourth, in combination with the nupper plate, B, whose inner sur-face shall be slightly concave in that portion directly over the bnck-ets, I claim making the surface upon whet the lower edge of said buckets rest, curved as shown and described.

1,992.—Case for Water Wheels.—James Leffel, Spring-field, Ohio. Patented Jan. 14, 1862 : I claim, first, The crown plate, A, provided with the horizontally projecting frame, C, and hub. A', as and for the purpose set forth. Second, The cylindrical tube, R, provided with the horizontally projecting flange, e, when used in combination with plate, A, as the combined to be the second second second second second.

Therein described. Third, I claim the gate, H, when constructed and operating as and for the purpose substantially as herein specified. Fourth, In combination with the parts, A and R, I claim the use of a sories of gates, H, as and for the purpose set forth. Fifth, In combination with the charts, as and real as a sub-wheel, I claim a series of scroll shaped gates so huag that they shall be nearly balanced by the pressure of the water. Sixth, I claim the combination and arrangement of the collar, L, rods, P, lever, M, provided with the rock-bar, O, and pinion, N, when constructed to operate in the manner and for the purpose herein set forth.

1,993.—Cider Mill.—H. K. Parsons (assignee by mesneof John Kranser), Harrisburgh, Pa. asignments

assignments of John Kranser), Harrisburgh, Pa. Patented Aug. 30, 1853: I claim, first, So locating the hopper, as that the substance to be ground shall be delivered upon that portion of the piston or crusher which shall be within the hopper when thrust forward, or into the space formed by the withdrawal of the same, when thrown back-ward

ward. Second, I claim operating the pl*tons or concaves of a cider mill, by means of eccentrics, whether said pistons be arranged as in Figs. 1 and 2, to move in a straight line, or to be pivoted at top or bottom, as in Figs. 8 and 9. Third, I claim the concave, k', arranged to operate in combination with the pistons, P, or with the concaves, d, as and for the purposes set forth.

EXTENSION.

Water Wheel.—Timothy Rose, Cortlandtville, N. Y. Patented Sept. 24, 1850 : I claim the discharge aperture of the chutes movable relatively to the axis of the wheel, or the axis of the wheel movable relatively to the aperture of the chute, substantially as described, for the purpose of varying the effective diameter of the wheel and thereby increas-ing or decreasing the velocity thereof, substantially as described.



In connection with the publication of the SCIENTIFIC AMERICAN, have act-prneys for procuring "Letters Patent" for

for new inventions in the United States and in all foreign countries during the past seventeen years. Statistics show that nearly ONE-THIRD of al the paper second general statistics show that hearly ONE-THIRD of a the applications made for patents in the United States are solicited through this office ; while nearly THREE-FOURTHS of all the patents taken in foreign countries are procured through the same source. It is almost needless to add that, after scientific and same source. It paring specifications and urawings for the United States Patent Office the proprietors of the SCIENTIFIC AMERICAN are perfectly conversant with the preparation of applications in the best manner, and the transaction of all business before the Patent Office; but they take pleasure in presenting the annexed testimonials from the three last ex.Commissioners of Patents :

MESSES MUNN & Co.-I take pleasure in stating that, while I held the office of Commissioner of Patents, MORE THAN ONE-POURTH OF ALL THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS. I have no doubt that 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. Yours very truly, CHAS. MASON.

Judge Mason was succeeded by that eminent patriot and statesman Hon. Joseph Holt, whose administration of the Patent Office was s distinguished that, upon the d-ath of Gov. Brown, he was appointe to the office of Postmaster-General of the United States. Soon afte entering upon his new duties, in March, 1859, he addressed to us th following very gratifying letter

following very gratuying retter MESSRS. MUNN & Co.:-It affords me much pleasure to bear tes mony to the able and efficient manner in which you discharged yo duties as Solicitors of Patents, while I had the honor of holding ti office of Commissioner. Your business was very large, and you as taued (and I doubt not justly deserved) the reputation of energy marked ability, and uncompromising iddelity in performing your pr fessional engagements. Very respectfully, your obedient servant, J. Hour

J. Holr Hon. Wm. D. Bishop, late Member of Congress from Connecticut, succeeded Mr. Holt as Commissioner of Patents. Upon resigning the office he wrote to us as follows: Missess, MUNN & Co.:-It gives me much pleasure to say that, dur-ing 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 dutles of Patent Attorneys with skill and accuracy. Very respectfully, your obedient servant, WM. D. BISHOP.

THE EXAMINATION OF INVENTIONS.

Persons having conceived an idea which they think may be patent able, are advised to make a sketch or model of their invention, and submit it to us, with a full description, for advice. The points of novelty are carefully examined, and a written reply, corresponding

with the facts, is promptly sent, free of charge. Address MUNN & CO., NO. 37 Park Row, New York. As an evidence of the confidence reposed in their Agency by in ventors throughout the country, Messrs. MUNN & CO. would state that they have acted as agents for more than TWENTY THOUSAND have they have acced as agents for more than 1 which if in 000 AND have norse! In fact, the publishers of this paper have become identified with the whole brotherhood of inventors and patentees, at home and abroad. Thousands of inventors for whom they have taken out pat ents have addressed to them most flattering testimonials for the vices rendered them; and the wealth which has inured to the individ uals whose patents were secured through this office, and afterwards illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollarst Messrs, MUNN & CO. would state that they never had a more efficient corps of Draughtsmen and Specification Writers than those employed at present in their extensive offices, and that they are prepared to attend to patent business of all kinds in the wickest time and on the most liberal terms

PRELIMINARY EXAMINATIONS AT THE FATENT OFFICE. The service which Messrs. MUNN & CO. render gratuitously upon examining an invention does not extend to a search at the Patent Office, to see if a like invention has been presented there; but is an opinion based upon what knowledge they may acquire of a similar invention from the records in their Home Office. But for a fee of \$5, accompanied with a model, or drawing and description, they have a special search made at the United States Patent Office, and a report setting forth the prospects of obtaining a patent, &c., made up and mailed to the inventor, with a pamphlet, giving instructions for further proceedings. These preliminary examinations are made through the Branch Office of Messrs, MUNN & CO., corner of F. and Seventh streets, Washington, by experienced and competent per-sons. Many thousands of such examinations have been made through this office, and it is a very wise course for every inventor to pursue Address MUNN & CO., No. 37 Park Row, New York. HOW TO MAKE AN APPLICATION FOR A PATENT.

Every applicant for a patent must furnish a model of his invention f susceptible of one; or, if the invention is a chemical production, he must furnish samples of the ingredients of which his composition consists, for the Patent Office. These should be securely packed, the inventor's name marked on them, and sent, with the Governmen ices, by express. The express charge should be pre-paid. Smal

The Scientific American.

models from a distance can often be sent cheaper by mail. The safest way to remit money is by a draft on New York, payable to the order of Mesrs. MUNN & CO. Persons who live n remote parts of the country can usually purchase drafts from their merchants on their New York correspondents; but, if not convenient to do so, there is but little risk in sending bank bills by mail, having the letter regis tered by the postmaster. Address MUNN & CO., No. 37 Park Row

Patents are now granted for SEVENTEEN years, and the Governmen fee required on filing an application for a patent is \$15. Other changes in the fees are also made as follows :-

| On filing each Caveat On filing each application for a Patent, except for a design | \$10 |
|---|-------|
| on aling each explication for a Patent except for a design | \$15 |
| On issuing each original Patent. | \$ 20 |
| On issuing each original ratent. | |
| On appeal to Commissioner of Patents | 340 |
| On application for Re-issue | \$50 |
| On application for extension of Patent | . 500 |
| On granting the Extension | \$50 |
| On filing a Disclaimer | \$10 |
| On ming a Disclatiner | e10 |
| On filing application for Design (three and a half years) | 210 |
| On filing application for Design (seven years) | \$10 |
| On filing application for Design (fourteen years) | \$30 |
| | |

The Patent Laws, enacted by Congress on the 2d of March, 1861, ar now in full force, and prove to be of great benefit to all parties who concerneu in new inventions. are

The law abolishes discrimination in fees required of foreigners, or cepting natives of such countries as discriminate against citizens o the United States-thus allowing Austrian, French, Belgian, English Russian, Spanish and all other foreigners, except the Canadians, fo enjoy all the privileges of our patent system (except in cases of de signs) on the above terms. Foreigners cannot secure their inventions

by filing a caveat ; to citizens only is this privilege accorded. CAVEATS. Persons desiring to file a caveat can have the papers prepared in the shortest time by sending a sketch and description of the **invention** The Government fee for a caveat is \$10. A pamphlet of advice re-garding applications for patents and caveats is furnished gratis, on application by mail. Address MUNN & CO., No. 37 Park Row, New Vork.

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s having rejected cases which they desire to have pros All persons cuted, are invited to correspond with MUNN & CO., on the subject giving a brief history of the case, inclosing the official letters, &c.

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cured through their agency. Inventors will do well to bear in mind that the English law does no imit the issue of patents to inventors. Any one can take out a pat entthere.

Circulars of information concerning the proper course to be pursued n obtaining patents in foreign countries through MUNN & CO'S Agency, the requirements of different Government Patent Offices, & ...

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Having access to all the official records at Washington, pertaining to the sale and transfer of patents, MESSRS. MUNN & CO., are at all time ready to make examinations as to titles, ownership, or assign of patents. Fees moderate.

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in the world. MUNN & CO. wish it to be distinctly understood that they do not speculate or traffic in patents, under any circumstances; but that they devote their whole time and energies to the interests of their

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EXTENSION OF PATENTS.

Many valuable patents are annually expiring which might readily be extended, and if extended, might prove the source of wealth to their fortunate possessors. Messrs. MUNN & CO. are persuaded that very many patents ar suffered to expire without any effort at exten sion, owing to want of proper information on the part of the patent tees, their relatives or assigns, as to the law and the mode of proce dure in order to obtain a renewed grant. Some of the most valuable grants now existing are extended patents. Patentees, or, if deceased heir heirs, may apply for the extension of patents, but should give ninety days' notice of their intention Patents may be extended and mod

nts may be extended and preliminary advice obtained, by o sulting or writing to MUNN & CO., No. 37 Park Row, New York.

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UNCLAIMED MODELS.

e on which they decide not to dels to this off Parties sending m apply for Letters Patent and which they wish preserved, will please appy for lettern returned as early as possible. We cannot engage to retain models more than one year after their receipt, owing to their vast accumulation, and our lack of storage room. Parties, there fore, who wish to preserve their models should order them returned within one year after sending them to us, to insure their obtaining them. In case an application has been made for a patent the mode in deposit at the Patent office, and cannot be withdrawn.

It would require many columns to detail all the ways in which the Inventor or Patentee may be served at our offices. We cordially in-vite all who have anything to do with patent property or inventions to call at our extensive offices, No. 37 Park Row, New York, where any questions regarding the rights of Patentees, will be cheerfully swered

Con nunicati ns and remittances by mail, and mo dels by expres prepaid) should be addressed to MUNN & CO. No. 37 Park Row, New Vork



W. V. H., of N. Y.-A fly-wheel does not create power -the idea is absurd. It is employed for two distinct offices. First to give uniformity to the motion of machinery in cases where either the force or the resistance is variable. Second, to accumu late the power where a resistance greater than that of the force is to be overcome for a short period. An instance of the latter appli-cation is seen in the steam punch, where the resistance in some cases would stop the engine but for the aid of the heavy fly-wheel. in which the power of the engine for some time has be

J. T. S., of N. Y.—High piston speed is a desirable element in an engine, but we connot see how a much higher velocity can be got with a pair of double engines than with one engine of the pair. Some advantage may be derived from one helping the other off its centers, but if one engine runs 600 feet per minute, it does not follow by any means that two engines will run 1,200 feet A high piston speed is economical, other things being equal. Any engine will run at high speed if you give it steam high enough and it is sufficiently large for the work. Mr. John Wiley, of Broadwry New York, will furnish you with a book on ship-build

P. S. S., of Pa.—We have no doubt that Mr. Hogg was in error in supposing that canned fruit will keep better with out the addition of sugar. It is true that a small quantity of sugar in water will cause fermentation, but it is also true that a weak solu tion of sugar will ferment more readily than a concentrated one indeed if it is sufficiently concentrated no fermentation will take place. All fruit contains sugar or starch enough to induce fermer tation, and the addition of more sugar will doubtless tend to prevent fermentation

F. E. W., of Mass.—You are mistaken in regard to the law. Unless you made a definite agreement with your workman to get up the improvement for you, you could lay no claim to it. He is employed by you to do a certain amount of work for certain wages, but has not pledged to you the result of his ingenuity in de vising new inventions. This is as we understand the matter.

W. T. C., of Mass.—The mistake you made was in delay ing your application for a patent, until some one has got a patent for the same thing. In order now to vindicate your rights, you must apply for a patent, and have your claims put into interference with those allowed to the other party. Many inventors by delaying their applications, involve themselves in much trouble.

B. & D., of N. H.-Steam causes the whistle to vibrate rapidly, that is what gives the sound. The steam strikes the thin edge percussively, or like a hammer, and that is what makes the vibrations. The pitch or note of all musical sounds is determined by the number of vibrations occurring in a given tin

J. H. C., of N. H.-If the watch falls with the same ty of course the shock] on the pivots of the balance when the same; but with a thicker case it would fall through the velocity will h

- air with slightly greater velocity. J. F., of N. Y.-Messrs. Balliere & Brothers, No. 440
- Broadway, New York, have published a treatise on coal oil and pe troleum by Abraham Gesner, M.D., F. G. S.
- H. H., of Ohio.—Your improvement in sawing machines seems to be new, but before applying for a patent we advise you to have us make a preliminary examination into its novelty at the Patent Office.
- R. B. W., of Ohio.—Mr. Richard Dudgeon, machinist, of Columbia street, this city, will furnish you with a punch that will cut an inch hole by hand in a bar one inch thick. W. C., of Pa.—Your quadrant would measure the alti-
- tude of a star, but we should think with less trustworthy a
- t present in use. C. R. S., of Md.-The metal you send us is known as

Chinese white copper. It is made by taking copper 40.4, nickel 31.6, zinc 25.4, iron 2.6 parts. A. K., of N. Y.-The mechanical powers are the Е

lever, the pulley, the wedge, the inclined plane, and the scre

N. W. F., of N. Y.-There is no better electrical machine for medical purposes than Dr. Smith's, the kind you have

R. B., of Canada.-We know of no prize offered for a stration of the problem to bisect an angle.

Money Received

At the Scientific American Office, on account of Patent Office Ibusiness, from Wednesday, Oct. 5, 1864, to Wednesday Oct

I. F. B., of Conn., \$81; L. W. T., of N. Y., \$22; H. S., of Tenn., \$20; I. B., of N. Y., \$20; J. B., of N. Y., \$40; C. T. W , of Pa., \$22; S. & S_{2} of Mas, \$15; W. Y., of N. Y., \$25; G. G. P., of Pa., \$40; A. M. of N. J., \$15; A. J. N. of R. I., \$25; J. S. of Conn., \$25; W. N., o N. Y., \$25; D. H. I., of Ill., \$30; R. P. F., of Maine, \$15; C. L., of N. Y, \$40; J. S, of N. Y, \$25; D. F. W., of Mass., \$15; L. D. C., of Mich., \$40; C. S., of N. Y, \$12; H. B., of N. Y., \$30; E. S., of N. Y., \$20; J. S., of N. Y, \$45; A. C. C., of N. Y., \$40; O. G. B., of N. Y., \$20; J. C., of N. Y., \$20; A. M. G., of N. II., \$20; S. C. R., of N. Y., \$20; 6. C., 61 N. I., \$20; A. A. G., 61 N. II., \$20; S. C. R., 61 N. I.,
\$20; G. K., 61 Vt, \$25; H. O., of Maine, \$15; J. F. L., of Mich., \$15; S. P., of N. J., \$30; S. P. O., of III., \$12; A. S. M., of III., \$30; S. T., of III., \$42; F. L., of Ohio, \$15; D. I. S., of N. Y., \$25; D. F. H., of Mass., \$100; E. J. K., of N. Y., \$10; L. G. K., of Mass., \$20; W. W. B., of N. Y., \$40; M. J. D., of N. Y., \$40; M. J. T., of Iaa, \$15; H. N., of R. I., \$20; H. N., of Fa., \$20; P. & S., of Conn., \$20; R. P. B., of Mich., \$20; J. S. F., of N. Y., \$20; J. S. F., of Col., \$20; C. B., of Col., \$20; J. S. F., of N. Y., \$20; S. C. B., of Col., \$20; P. A. S., of N. Y. \$25; B. F. A. Col., \$16] \$60; C. F., of N. Y., \$30; J. S., of N. Y., \$25; B. & L., of Cal., \$15; J M. M., of Ohio, \$20; N. B. B., of N. Y., \$30; B. B., of R. I., \$15; T
 N. D., of Ind., \$15; J. F. S., of N. Y., \$33; N. T., of N. H., \$25; M
 K., ot Ohio, \$25; A. J. S., of Cal., \$19; T. M., of N. Y., \$15; W. H. C. of Ind., \$25; J. H. C., of Mass., \$16; G. F., of Ill., \$25; A. R. D., of N. H., \$15; S. W. K., of Mass., \$15; W. C. McB., of N. J., \$35; S. R., of Pa., \$30; G. S., of Mass., \$15.

Persons having remitted money to this office will please to examine the above list to see that their initials appear in it and if they have not received an acknowledgment by mail, and their initials are no be found in this list, they will please notify us immediately, stating tand how t was sent, whether by mail or expre

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office, from Wednesday, Oct. 5, 1864, to Weanesday, Oct. 12, 1864:---C. L., of N. Y.; D. I. S., of N. Y.; D. S., of Cal. (4 cases); V. W. B., of N. Y.; L. W., T., of N. Y.; A. C. C., of N. Y.; R. & S., of III; A. J. N., of R. I.; N. B. B., of N. Y.; S. P., of N. J.; W. H. C., ot Ind.; G. K., of N. I; H. L., of Iowa; G. F., of III; G. M. M., of Pa.; L. E. of N. Y.; H. B., of N. Y.; J. S., of N. Y.; W. C. McB., of N. J.; W. Y., of N. Y.; J. H. M., of Ohio; W. N., of N. Y.; J. F. S., of N. Y.; J. S., of N. Y.; G. F., of N. Y.; S. R., of Pa.; A. J. S., of Cal.; R. C. & M., of N. Y.; J. S., of N. Y.; E. T. M., of N. Y.; C. S., of N. Y.; M. J. D., of N. Y.; J. B., of N. Y.; A. C. C., of N. Y.; C. T. W., of Pa.; J. , of Conn.; C. A. B., of Cal.; D. H. I., of Ill.; S. P. O., e^r , of Ind.; A. S. M., of Ill.; G. G. P., of Pa.; M. K., of Otnu. of IL: N.

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