Ephraim Ball, of Canton, Ohio, assignor to Ball & Butler, and Ball & Butler assignors to Ephraim Ball aforesaid, for an Improvement in Mowing-ma-chines. Patented Dec. 1, 1857:

chines. Patented Dec. 1, 1857: I claim first, The combination of the short curved arm, R, with the bar, Q, and finger-bar, P, the whole constructed and arranged for joint operation, substantially as and for the purposes above set forth. Second, I claim the combination of the coupling arm, with bar, Q, wrist, f socket, h, hinge, g, and short finger-barm, P, substantially as and for the purposes set forth. Third, I claim extending the coupling arm, R, outside of the frame in forme, when the parts are constructed and arranged in the manner substantially as described, whereby greater freedom of the movement of the cutting apparatus is secured.

Ephraim Ball, of Canton, Ohio, assignor to Ball & But ler, and Ball & Butler assignors to Ephraim Ball aforesaid, for an Improvement in Mowing-machines.

Patented Dec. 1, 1857: I claim the combination of the independent driving wheel, B, at the grain side of the machine, with the hinged bar, Q, to which the short finger-beam is rigidly attached, and the hinged coupling arm, whereby the cutting apparatus may rise and fall freely, and the cut-ters be kept in operation while turning to the left upon uneven ground, snbstantially as described.

# DESIGNS

S. B. Ellithorp, of New York City, for a Design for the Frame of a Sewing-machine. B. M. Johnson, of New York City, for a Design for Gas

Cocks, &c.



- A. T. L., of Ga.-Your galvanic battery is similar to what is called the "Maynooth battery." You have simply substi-tuted iron for the negative plate, in place of copper, platina or charcoal
- R. D. & Co., of C. W.-The condensers of coal-oil vapors used here are simply close tanks of boiler-iron, which we suppose you can have made at Toronto.
- H. B. M., of Conn.-The best substance which we can recommend to put on your smoke stack, to prevent it burning off, is black-lead mixed with alum water (some alum dissolved in warm It will not burn off so rapidly as the coal-tar which you vater). tried
- J. McR., of Ga.-It will require a very large hydraulic ram to force water half a mile to an elevation of 30 feet, with a fall of 5 feet. If the supply of water is abundant you can do it, but the cost for lead pipe and apparatus will be great. H. S. S., of Pa.—The best way to prepare a black board
- Is to give it one or two coats of black paint as a groundwork, then put on one coat of copal varnish and allow it to dry, after which it should he slightly rubbed down with fine sand paper. After this give it another coat of the same kind of varnish, in which some very fine emery or ground glass is mixed, which will permit the board to be used either with chalk or a common slate pencil.
- R. K., of Texas .- We cannot forward you any single number containing a description of the hydraulic ram. In Vol. V. of the SOIENTIFIC AMERICAN this hydraulic motor is illustrated and described. If well constructed, it is perfectly reliable; and on a fall of 5 feet, it will raise about one-twelfth of the inlet water 60 feet high through 1,000 feet of lead pipe.
- W. H., of Ill.-The evaporation of a cubic foot of water per hour is considered to be the horse-power of a boiler; but by using steam expansively, the horse-power of an engine does not require this amount of water evaporated. About 12 pounds of water have been evaporated with one pound of coal.
- W. B., of Pa.-We are in favor of employing insulators on houses for fastening lightning-rods. Iron staples, being con ductors, are not so suitable for staying the rods as non-conductors; they are safe, however, if driven into dry wood or some other good non-conductor, but not otherwise.
- ANTI-STRIKE .- We prefer not to publish any communications upon the subject of strikes. The facts stated in your case re no doubt correct
- S. A., of Pa.-Your suggestions in regard to steames are not founded upon a correct knowledge of what Watt hers have done. If you procure Bourne's "Catechism of the and others have done. If you procure Bourne's "Catechism of the Steam-engine" you will get some ideas on this subject with which ou are not familiar.
- J. P. H., of Va .- You state that the feed-water for your boiler comes through coal seams, and that it corrodes the metal at the waterlevel of the boiler in such a manner that it requires to be talat patched about once every year. In all likelihood the feed-water contains sulphur (taken up from the iron pyrites in the coal), which is converted into dilute sulphurie or sulphurous acid in the boiler, and thus corrodes the iron rapidly. The remedy for you is to change your feed-water by collecting rain in a pond, if you cannot get suitable water from a well.
- R. I. L., of Minn.-By combining bismuth, in and lead in various proportions, alloys are formed of various degrees of fusibility above and below the temperature of boiling water. Eight parts of bismuth, five of lead and three of tin form an alloy which melts in boiling water. This was discovered by Sir Isaa
- G. E. R., of Ohio.-Sulphurous acid is a gas taking on the liquid form only at a temperature of zero or below. Water, however, absorbs some 40 times its bulkof this gas, and the solution Is sometimes called liquid sulphurous acid. It retains, in the solu-tion, its bleaching properties. A solution of the sulphite of soda forms a similar bleaching liquid. Sulphurous acid does not produce a permanent white as chlorine does.

- L. E., of N. Y.-The best way to lay a pipe of varying diameter for carrying water from an elevation is to place the end of greatest diameter at the spring and the narrow end of the outled near your house.
- H. S., of Conn.-You will find a letter to your initials in the post-office, upon the subject of coal-oil. J. W , of N. Y.—The glass water-gage on the outside of
- a steam boiler secures the object you desire to attain by a long metal tube inside, connected with the gage-cocks. We consider the glass gage reliable in Indicating the hight of water.
- G. K., of Conn.-Boilers are placed in a horizontal position in steamships and down in the lower deck or floor. We have
- sublar are in general use, and are the best for such purposes. M. V. C., of Ala .- There is no possible way of detecting
- poison in spirituous liquors but by analysis. W. L. B., of Mass.-When air is compressed its latent
- heat becomes sensible; but in grinding tools, this action, we think, will not account for the sensation experienced in grinding by the correspondent to which you refer. D. N. & Co., of Md.—The cement for mending broken
- china-ware and glass is made by stirring finely powdered quicklime among the white of eggs.
- W. L., of C. W.-We think the place you name is healthy, but before deciding to remove there, you had better make it a visit and learn from observation all about it.
- E. F., of Wis.-We do not know where you can procure the "Tinner's Guide."
- R. H., of Mass.-You should stamp the date of you copyright upon each article sold. This will be a warning to all who
- undertake to infringe your right. J. A., of Wis.—If the person you refer to has had the the cement you described in use for 22 years, of course it is now public property, as he did not take proper measures to secure a pat-
- P. Rr, of Mo.-Iron is the proper metal for a pump to pump mercury with. The india-rubber manufacturers sav that ubber-packing would be serviceable and unobjectionable fo ch a pu
- S. F. S., of Wis.-Exhibitions of the magic lantern and microscope have been tried, but perhaps with insufficient effort and enterprise. Microscopes are exhibited daily in fine weather in the Park, New York. There is no more interesting study than the wonders of the invisible world, and it is attracting a great deal of attention. Lardner, on the microscope, is a good book to begin with
- G. C. J., of N. Y.-Engravings are transferred to wood by the photographic process; to glass, by cutting out the engraving and pasting it on the inside of the glass vessel, and then painting the whole inside of the vessel. This is the potichomanie which was so fashionable a few years since.
- J. P., of Cal.-We can send you the bound volumes of the SCIENTIFIC AMERICAN by Wells, Fargo & Co.'s express. The price will be—For subscription, \$2: binding two volumes In one \$1; total, \$3; you to pay the express charge.
- S. M. B., of Mass.-Your patent is for a door hinge. and you claim the roller between two inclined planes in the manner and for the purpose described. By the terms of your patent your invention applies to hinger only, so that the use of analogous p in the formation of a screw press, or other machines, would no an infringement of your patent. onto
- W. T. T., of N. Y .-- Asks the following question: "If I patent a machine and dispose of the right, and then make an imrovement which I also patent, does that improvement belong to ne or to the purchaser of the original right ? and can said purchaser se said improvement without my consent?" We answer : Unless there is a previous agreement by which the patentee stipulates to convey all subsequent improvements made by him, he would have entire control of the patent for the improvement, and no one could use it without his consent
- G. C. T., of Pa.-All marble, chalk, and nearly all shells, are limestone. It is composed of carbonic acid and lime. There is no distinctive marks by which you can distinguish lime-stone suitable for hydraulic cement; the only way is to burn a quantity and try it. This variety contains various foreign substances, the essential one being silex. To make 12 gallons of black ink take 12 lbs. of nutgalls, 5 lbs. of green sulphate of fron, 5 lbs. of gum senegal and 12 gallons of water. Put the bruised nutgallis into a copper kettle of a depth equal to its diameter, and boil during three hours with three-fourths of the above quantity of water, taking care to add fresh water to replace what is lost by evapora-tion. The decoction is to be emptied into a tub, allowed to settle, and the clear liquor being drawn off, the lees are to be drained. The skins which thicken on the top of open vessels of paint (called paint-skins) are the best application to prevent a shingle roof from leaking at the seam where it joins a neighboring building. P. H. W., of N. Y.—The "New York Belting and
- Packing Company," No. 38 Park-row, inform us that they do not recommend rubber for packing the pistons of pumps: but for pack-The amount of pressure required to raise water in a tube is 15 lb to the inch for every 34 feet, which would give 10236 lbs. for 22 ther In order to ascertain the pressure required to throw a jet to feet. this hight in the open air, many circumstances would require to be taken into account—the length, size and material of the hose, the shape and size of the pipe, the shape of the nozzle, &c. In the case you mention, the pressure was probably not less than 150 lbs. to the inch.

### Money Received

- At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Oct. 1, 1859 :-
- A. E., of Mich., \$30; J. G., of Ky., \$55; J. H. S., of Canada, \$30; C. H. D., of Wis., \$30; J. W., of Ohlo, \$20; H. C. F., of Pa., \$55; W. H. L., of N. Y., \$55; R. & S., of Ohio, \$30; D. W. C., of Il., \$30; W. & C., of Ind., \$25; A. & D., of Ala., \$25; G. J. P., of Mass., \$25;

W. C. C., of N. Y., \$30; J. C. L., of Conn., \$12; S. B., of Wis., \$25; J. E., of N. Y., \$30; S. F. L., of Conn., \$25; J. J. M., of Fla., \$35; S. S., of N. Y., \$30; S. F. L., of Conn., \$25; N. & B., of Tenn., \$35; S. S., of N. Y., \$30; S. F. L., of Conn., \$25; N. & B., of Tenn.,
\$25; B. B., of Mda, \$30; W. J. J., of Ala., \$35; T. W., of Conn., \$25;
O. E. W., of Mass., \$20; W. H. H., of Cal., \$35; N. S., of Mass., \$30;
D. W., of Mass., \$30; S. P., of Mass., \$25; J. C. R., of N. Y., \$30;
E. K., of Conn., \$25; C. L. G., of N. Y., \$50; C. C. B., of Ohio, \$30;
G. M. A., of Ill., \$33; F. F. B., of Iowa, \$30; D. P., of N. Y., \$12;
G. C., of Maine, \$30; R. C. C., of Ga., \$25; W. E., of Maine, \$25;
C. & C., of Pa., \$30; L. A. B., of N. Y., \$25;
H. B., Jr., of Pa., \$25; J. T. R., of Pa., \$15; J. E. S., of Maine, \$35;
E. T. W., of N. H., \$30; C. W. R. of Gaa, \$30; W. T., of Mass., \$35;
E. T. W., of Pa. \$20; W. F. of Tavara \$30; W. T., of Mass., \$35; B. F. D., of Pa., \$30; W. E., of Texas, \$30; W. P. C., of Ind., \$25;
 J. Y. S., of Pa., \$35; T. M., of N. Y., \$25; M. F., of Ind., \$36; G. W.
 B., of Ala., \$30; G. F. P., of N. II., \$25; P. L., of N. Y., \$30; T. C. H. of Ga., \$25; J. S. D., of N. J., \$100; H. B., of Ill., \$15.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 1, 1859 :-

H. & B. of England; H. & F. of Pa.; J. G. K. of N. Y.; J. C. L. of H. & D. of E. gining, H. & F. of K. a., S. G. R. of R. R. J., S. C. B. of
 Conn.; D. P., of N. Y.; T. C. McK. of Tenn.; H. C. R. of Mass.; W.
 H. L. of N. Y.; G. J. P. of Mass.; A & D. of Ga; N. G. S. of N. Y.;
 T. R. of Conn.; W. & C. of Ind.; S. P. of Mass.; S. F. L. of Cal.; W.
 E. of Maine; R. C. C. of Ga; G. C. of Matne; C. & C. of Pa; S. B. of Wis: D. M. C. of N. H.: H. B. F. of N. Y.: L. A. B. of N. Y.: J. 61 wis, D. a. C. of N. I., H. B. F. J. N. Y. J. A. B. Of N. I., J. L. of R. I., N. & B. of Tenn; H. B. J., of Pa.; G. S. A., of N. Y.; S. & H. of N. Y.; J. B. A. of N. Y.

## Literary Notices.

LIFE AND TRAVELS OF HUMBOLDT. — Rudd & Carle-ton, publishers, No. 130 Grand-street, New York. – This is a neat volume and a very good compilation, and contains much in little space regarding the great philosopher and traveler. It describes his education, manhood and whole life in a brief and interesting manner. It is a most attractive book, and contains much that is fascinating to the admirrer of the curious and learned.

DICTIONARY OF LOVE. - Dick & Fitzgerald, No. 18 Ann-street. Price \$1.-A book interesting to love-sick swains, to which class only do we recommend it.

BLACKWOOD'S MAGAZINE.—Le:mard Scott & Co., No. 54 Gold-street.—The number for this month is as attractive as usual. This magazine stands in the front rank of literature. One article on voluntary and involuntary actions, contains much that is very curious about the "machine of machines"—the human body.

THE TELEGRAPH MANUAL.—This is a noble volume, devoted to the history and practice of telegraphing, by Tal. P. Shaff-ner, Esq., and published by Pudney & Russell, John-street, New York. It is illustrated with a great number of wood-cuts, repre-senting nearly all the telegraphic which have been invented; and it has also quite a uumber of steel plates, portraits of those who have been distinguished in American telegraphy, such as Morse, Kendall, Swain, &c. It is the best, most comprehensive and most handsome work on the subject which have to be public, and it appears to be edited with much ability and candor.

History of the Scientific American and Important Information to Patentees.

- We have printed a supplementary edition of the SCIEN-TIFIC AMERICAN, in which there is a history of its rise and progress, 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, engineers and specification writers at their daily labors. The same paper 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 wheare interested either in procuring, managing or using patented inven-tions. 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 mailed upon receipt of two three-centstamps. Address MUNN & CO., publishers of the SOI-ENTIFIC AMERICAN, New York City.
- BACK NUMBERS. We shall hereafter commence sending the SCIENTIFIC AMERICAN to new subscribers from the time their subscriptions are received, unless otherwise directed; the back numbers can be supplied from the commencement of the volume to those who may order them. It is presumed most per-sons will desire the back numbers, and such as do will please to so state at the time of sending in their subscriptions; they can, however be supplied at any subsequent period.
- INFALLIBLE RULE-It is an established rule of this office to stop sending the paper when the time for which it was prepaid has expired, and the publishers will not deviate from that standing rule in any instance.
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- GIVE INTELLIGIBLE DIRECTIONS-We often receive letters with money inclosed, requesting the paper sent for the amount of the enclosure, but no name of State given, and often with the name of the post-office also omitted. Persons should be careful to their names plainly when they address publishers, and name the post-office at which they wish to receive their paper, and the State in which the post-office is located. SUBSCRIBERS to the SCIENTIFIC AMERICAN who fail to
- get their papers regularly will oblige the publishers by stating their complaints in writing. Those who may have missed certain numcomplaints in writing. Those who may have missed certain num-bers can have them supplied by addressing a note to the office of publication.
- PATENT CLAIMS-Persons desiring the claim of any invention which has been patented within 14 years can obtain a by addressing a note to this office, stating the name of the pate nc of the patentee, and date of patent when known, and enclosing \$1 as fee for copying.

#### Rates of Advertising.

Thirty cents er line for each and every insertion, payable in ad-vance. To enable all to understand how to calculate the amount they must send when they wish advertisements sublished, we will explain that ten words average one line. Engravings will not be admitted into our advertising columns; and, as heretofore, the publishers reserve to themselves the right to reject any advertisement sent for publication.

## IMPORTANT TO INVENTORS.

IMPORTANT TO INVENTORS. MERICAN AND FOREIGN PATENT SOLICI-TORS.-Messrs. MUNN & CO., Proprietors of the SCIENTITO ANERICAN, continue to procure Patents for Inventors in the United States and all foreign countries on the most liberal terms. Our expe-rience is of thirteen years' standing, and our facilities are unequaled by any oftier 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 pat-ented. 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 NYNE and YOUR Volcock duity, at their PARNERAL OFFICE, N. 37 PARK ROW, NEW YORK, We have also established a BRANCI OFFICE in the CYPY office Wassingtron, on the constrain of FANT SEVENTI-SPICETR, opposite the United States Patent Office. This office is under the general super-intendence of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given 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 this business we have Offices at Nos. 66 Chancery Lane, London; Boulevard St. Martin, Paris, and 26 Rue des Eperonniers, Brussels, We through we filly say that three-fourths of all the European Patents, secured to American citizens are procared through our Amentors.

Inventors will do well to bear in mind that the English aw does t limit the issue of Putents to Inventors. Any one can take out a titer there.

atent there. A pamphlet of information concerning the proper course to be pur-led in obtaining Patents through our Agency, the requirements of the Patent Office, dc., may be had gradus upon application at the rincipal Office or either of the Branches. We also furnish a Circu-r of information about Foreign Patents. The annexed letters from the last two Commissioners of Patents e commend to the perusal of all persons interested in obtaining stents:...

The annexed letters from the last two Commissioners of Automatic ecommend to the perusal of all persons interested in obtaining Patents:-Messus. MUNN & Co.:-I take pleasure in stating that while I held the office of Commissioner of Patents, MORT THAN ORE-TOURTH OF ALL THE BUBMESSE 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 of commissioner of Patents, MORT, Will, and fidelity to the interests of your employers. Yours, very truly, in marked degree of promptness, ekill, and fidelity to the interests of your employers. Yours, very truly, CHAS. MASON. Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subloined very graftying testimed States, he addressed to us the subloined. Commissioner. Your business was very large, and you sustained (and, I doubt not, justly deserved) the reputation of energy, Marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully, methods wery fully. M. BUCMPANY, No. 37 Park-row, New York.

PARAGON COAL OIL BURNERS.—TO MANU-racturers of and Dealers in Coal Oils, and Coal Oil Lamps.—The nbove burners are admitted to be the best in use as to strength, least liability to get out of order, and ease of management; giving a larger ble for hand, hull, hanging bracket and side (lam)a; also, for Rail-road Stations, Steamboats and Public Buildings. The best Burning and Lubricating Oils, as well as Lamps, in quantities to guit pur-chagers, at the lowset market prices. H. COULTER, 15 4t\* No. 56 South Second-street, Philadelphia, Pa.

A DRAUGHTSMAN (MACHINIST) WISHES TO find a suitable engagement. No objection to go in the country. Good references. Address L, 4,196 Post-office. 15 2\*

BOILER PLATE PUNCHES.-RUST'S PATENT, manufactured and sold by the preprietor of the patent, S. C. HILLS, No. 12 Plattstreet, New York, Frien \$160.

REMOVAL.—THE UNDERSIGNED RESPECT. fully informs his customers and others, that he has removed his business of a "Manufacturer's Supply Store," from No. 63 Court-landt-street to No. 329 Pearl-street, opposite Platt, and would invite their attention to his increased facilities for supplying all articles re-guired in a Cotton, Wolen, Silk or Carpet Factory. A call and orders are solicited. [1\*] OSCAR SCHENCK.

CLOCKS FOR CHURCHES, COURT-HOUSES, dcc.; Time-picces for Jewelers, Railroad Othees, dc. Also, Glass Dials for 1. uminating, and other kinds. Address JOHN SPERRY, Manufacturer, Oakland Works, Sag Harbor, N. Y. 9 18' eow

WANTED.—A GOOD CHANCE TO MAKE assign one-half of his interest in a highly useful, new and patentable invention to any practical man who will sustain the cost of intro-ductng and patenting. There has been a preliminary examination at Washington made upon svid invention, proving its patentability. Address immediately J. F. WHITE, New Ipswich, N. H.

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THE BAY STATE PLANER AND MATCHER has a wronght-iror head, improved knife-adjuster, steel bear-ings, ol cells, and Fitz' patent feed works. All kinds of sash and door machinery. Send for a catalogue. 1\* J. A. FAY & CO., Worcester, Mass.

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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:-Messrs. Tif-fany & Co., New York; Wethered, Brothers, Baltimore; George W. ond & Co., Boston. 413\*

A PPEALS BEFORE THE JUDGES OF THE Office, in Rejected Cases, Interferences, &c., are prosecuted by the undersigned on moderate terms. MUNN & CO., Solicitors of Patents, No. 37 Park-row (Scientific American Office), New York.

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VALUABLE MANUFACTURING PROPERTY For SALE AT CLEVELAND, OIIIO. --This property con-sists of a brick building, metallic root, is three stories high 10 feet on the ground, with the land on which it stands. The building is divided by brick walls into five apartments, and is cantile of further subdivision. Power is supplied to all parts of the building by the main and counter-shafts which are attached to an engine of about 30 horse-power, located within the building. It was originally design ad for renting of room and power, and is now mostly occupied for t<sup>-1</sup> tpurpose. The location and design is better adapted for the working of metals than for most other purposes, being situated on the Ohio canal and West-street, near the Cleveland. Columbus and Cin-cinnati Railroad. At Cleveland the Lake Superior iron and ironore are brought in contact with the coal fields of Ohio, thus furnishing great advantages to the manufacturer. Terms of payment liberal, part of the purchase-money only being required down. 13 3 I.L. HE WITT, Cleveland, Ohio.

TO CANDLE MANUFACTURERS. — THE undersigned manufacture "Weeden's Patent Self-consuming Wick" for tailow candles. Specimens of candles and samples of the wick may be procured at the store of C. Shepard & Co., No. 397 Broad. vay, New York. Samples sent by mail by the undersigned, if desired. Candle-wick ing of every description, and of the best quality, supplied to order at short notice, and all the common kinds, braided and twisted, constantly on hand. 133" STEPHEN RANDAL & CO., Providence, R. I.

FULTON & VANKIRK'S PATENT PARAGON COAL-OIL BURNER.—The inventors of this Burner would call the attention of the trade to its superiority over any other now in use. It is admitted by all who have examined it to be the best as to strength, less lisbility to get out of order, and ease of management, giving a more perfect light than any other burner ever offered to the public. This burner is manufactured in three different sizes, Nos. 1, y and 3; the largest (No. 3) giving as much light as 10.5cc; gas-burner, at one-third less expense. Lamps, with the above burner, suitable for hand, hall, hanging, bracket and ede-lamps; also, for railroad stations, steamboats and public buildings; also, Coal-oil, of superior quality; may be had, at the lowest market prices, at TCUKER & PADDON'S, 42 John-street, Agents of the American Coal-oil Company. 14 4\*

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