

invention from the records in their Home Office. But for a fee of \$5, accompanied by 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 persons. 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.



D. B., of Ill.—The first thing to be done is to have your alleged infringer's plow examined and compared with the claims in your Letters Patent by a patent lawyer, and if the parties are infringing your claims it will be his duty to warn them of the infringement and summon them to appear and pay damages for infringing, buy a license and stop manufacturing; and if they do not regard your threat, get out an injunction to restrain them.

J. L., of N. Y.—Petroleum is a mixture of various hydro-carbons, and probably no two specimens have the several chemical compounds mixed in the same proportion. In the process of purification the more volatile substances are separated, and these are called benzine. As benzine is composed of a number of hydro-carbons mixed in various samples in different proportions, there is no fixed boiling point common to all the samples.

O. H. K., of N. Y.—Sulphate of soda may be decomposed by carbonate of lime and charcoal with intense heat, but your best plan will be to buy a pure article.

C. H. P., of Mass.—Articles of iron may be covered with copper by dipping them in a solution of sulphate of copper.

D. R., of R. I.—It is our opinion that very few of our readers are interested in the discussion of questions in pure mathematics.

F. A. W., of Mass.—King's "Notes on the Steam Engine" is a very useful and practical book for engineers.

P. S., of Pa.—We do not know of any machine in the market capable of dropping potatoes.

W. A. V., of N. H.—You can have the powder which you send us analyzed for \$15.

F. T., of N. Y.—Butter is one of the organic products that has never been produced by art.

C. R. W., of Ind.—We are informed by Prof. Seely that there are no stereoscopes yet for sale in market.

T. J. F., of Texas.—There are no two liquids known which will ignite by simply being brought in contact. There are liquids which on being brought in contact with certain solids will generate sufficient heat to create flame. Water poured on lime in sufficient quantity will set wood on fire.

A. W. H., of N. Y.—Aluminum bronze is an alloy of 90 parts of copper with 10 of aluminum. You can get aluminum of J. F. Lohme & Co., 556 Broadway, this city, and perhaps aluminum bronze and Aich metal.

Money Received.

At the Scientific American Office, on account of Patent Office business, from Wednesday, April 6, 1864, to Wednesday, April 13, 1864:—

- R. A. V., of N. Y., \$25; J. F. C., of N. Y., \$50; E. T. S., of N. Y., \$20; F. S. G., of N. Y., \$16; A. E. H., of N. Y., \$45; E. S. H., of N. J., \$20; W. G., of Ind., \$20; A. O., of N. J., \$16; J. D., of Canada, \$12; H. D., of Ohio, \$45; J. W., of N. Y., \$16; O. W., of N. Y., \$20; J. F., of N. J., \$16; L. G. K., of Mass., \$16; R. B. W., of Ohio, \$25; A. I. A., of Ill., \$16; S. T., of Ohio, \$20; C. B., of Ind., \$50; P. & B., of Pa., \$25; E. R. B., of Ind., \$15; J. G., of Pa., \$20; O. W. & B., of Ill., \$16; G. C. P., of Cal., \$40; G. H. M., of Ohio, \$20; A. C. K., of Wis., \$28; W. P., of Ark., \$26; A. W. T., of Ill., \$50; M. J. D., of Ohio, \$10; T. K. M., of Conn., \$16; W. M., of Mass., \$16; E. A. P., of Mass., \$30; H. A. A., of N. Y., \$20; B. M., of N. Y., \$25; G. W. B., of N. Y., \$41; W. M., of N. Y., \$16; J. S., of N. Y., \$16; J. B., of N. Y., \$16; C. A. S., of N. Y., \$41; C. St. J., of Mass., \$45; H. McK., of Ill., \$16; E. G. R., of Mich., \$20; D. S., of Cal., \$32; W. B. V., of Pa., \$20; T. R., of N. Y., \$20; J. B. K., of Ill., \$16; H. L., of Minn., \$25; A. M. W., of Mass., \$16; F. A. B., of N. Y., \$16; C. A. W., of Vt., \$25; D. & M., of Ill., \$25; E. H., of Minn., \$16; H. C. S., of Mass., \$16; E. R. C., of N. J., \$25; J. H., of Conn., \$44; E. K., of N. Y., \$16; D. & B., of N. Y., \$25; D. E., of Ill., \$25; W. N. S., of Ill., \$25; W. D. S., of N. Y., \$25; J. H., of Wis., \$15; J. A. M., of Ill., \$15; J. D., of Ill., \$10; C. H., of Ill., \$16; J. T., of Ind., \$20; W. F. S., of N. Y., \$41; J. P., of N. Y., \$20; I. C., of Mo., \$20; B. & S., of N. J., \$16; J. F., of N. Y., \$16; W. L., of Md., \$100; I. S., of N. Y., \$20; C. H. R., of N. Y., \$16; J. K. U., of N. Y., \$16; N. A., of Ohio, \$20; B. & G., of Conn., \$20; C. W. B., of Conn., \$59; J. R. P., of Ohio, \$25; A. H., of Ky., \$16; H. & F. B., of Ohio, \$32; H. T. S., of Mass., \$12; W. C. G., of N. Y., \$25; J. M., of Mass., \$30; W. R. F., of Cal., \$20; H. H., of Mass., \$16; G. H., of Cal., \$15; W. P., of Md., \$15; J. H. P., of Mo., \$16; W. C. N., of Conn., \$25; F. J. R., of Ill., \$15; N. J. C., of Ill., \$10; L. D. C., of Mich., \$20; C. M., of Mass., \$16; P. D., of N. Y., \$16; L. B. B., of Ill., \$17; A. J. F., of Vt., \$20; H. L., of N. Y., \$56; J. F., of N. Y., \$25; J. S., of N. Y., \$25; A. J. C., of N. Y., \$25; H. McK., of Ill., \$25; J. F. C., of N. Y., \$181; P. A. C., of Ind., \$30; J. T. P., of Ind., \$30; J. J. R., of Ohio, \$20; J. E. G., of England, \$16; T. A. G., of Ill., \$16; C. & P., of N. Y., \$16; S. L. O., of Conn., \$16.

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 not to be found in this list, they will please notify us immediately, stating the amount and how it was sent, whether by mail or express.

Specifications and drawings and models belonging to

parties with the following initials have been forwarded to the Patent Office, from Wednesday, April 6, 1864, to Wednesday, April 13, 1864:—

- R. A. V., of N. Y.; B. M., of N. Y.; A. S. L., of N. Y.; G. W. B., of N. Y.; W. F. S., of N. Y.; E. R. C., of N. J.; C. A. W., of Vt.; W. C. G., of N. Y.; R. B., of N. Y.; R. B. W., of Ohio; W. P., of U. S. A.; D. E., of Ill.; T. J. E., of Ind.; H. T. S., of Mass.; J. R. P., of Ohio; P. & B., of Pa.; C. B., of Ind.; J. M., of Mass.; G. C. W., of Ohio; H. & R., of Pa.; H. L., of Minn.; D. & B., of N. Y.; R. W., of N. Y.; O. E., of Pa.; H. L., of Ky.; A. C. K., of Wis.; J. S., of Iowa; W. D. S., of N. J.; W. N. S., of Ill.; N. & J. C., of Ill.; A. W. T., of Ill.; W. C. N., of Conn.; J. H. H., of Conn.; D. & M., of Ill.; G. W. B., of Ohio; J. F. C., of N. Y., (5 cases); H. McK., of Ill.; J. F., of N. Y.; H. L., of N. Y.; H. A. A., of N. Y.; A. J. C., of N. Y.; J. S., of N. Y.; J. F., of Conn.; C. W., of Iowa; E. A. P., of Mass.; J. T. P., of Ind.; P. A. C., of Mass.

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TWENTY-FIVE CENTS per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, 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 they may deem objectionable.

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ARMY CLOTHING AND EQUIPAGE OFFICE, Cincinnati, Ohio, April 6, 1864.

PROPOSALS ARE INVITED BY THE UNDERSIGNED, until WEDNESDAY, April 20th, 1864, at 12 o'clock, M., for furnishing this Department (by contract) with—

- Blankets—Woolen.....Army Standard. 1 do.
Blankets—Cotton.....do.
Color Belts.....do.
Drums—complete.....do.
Felling Axes (first quality only and to weigh from 4 1/2 to 5 1/2 lbs.).....do.
Felling Ax Handles, Guldons (Cavalry).....do.
Kersey, Sky-blue.....do.
Pick Axes.....do.
Pick-ax Handles.....do.
Spades.....do.
Shelter Tents.....do.
Samples of which may be seen at the Office of Clothing and Equipage in this city.

To be delivered, free of charge, at the U. S. Inspection Warehouse, in this city, in good new packages, with the name of the party furnishing, the kind and quantity of goods distinctly marked on each article and package.

Parties furnishing goods must in all cases furnish samples, marked and numbered to correspond with their proposal, and distinctly state in their bids the quantity of goods they propose to furnish, the price and the time of delivery.

A guaranty, signed by two responsible persons, must accompany each bid, guaranteeing that the bidder will supply the articles awarded to him under his proposal.

Bids will be opened on Thursday, April 20, 1864, at two o'clock, P. M., at this office, and bidders are expected to be present.

Awards will be made on Saturday, April 21st.

Bonds will be required that the contracts will be faithfully fulfilled.

Telegrams relating to proposals will not be noticed.

Blank forms of proposals may be obtained at this office.

The right to reject any bid deemed unreasonable is reserved.

By order of Col. Thomas Swords, A. Q. M. G. W. MOULTON, Captain and A. Q. M.

ARMY SUPPLIES.

OFFICE OF ARMY CLOTHING AND EQUIPAGE, BROADWAY, NEW YORK, April 7th, 1864.

SEALED PROPOSALS WILL BE RECEIVED AT this Office until 12 o'clock, M., on Thursday the 14th instant, for furnishing by contract, at the Depot of Army Clothing and Equipage in this city, SIX-MULE-WAGON HARNESS, COMPLETE.

Specifications for which can be seen at this Office. Bidders will state the quantity they wish to supply, and the shortest time in which they can deliver it.

All proposals must be accompanied by a proper guarantee for the faithful performance of a contract.

The United States reserves the right to reject all bids deemed objectionable.

Proposals should be endorsed, "Proposals for furnishing Harness," and addressed to

LT.-COL. D. H. VINTON, Dy. Qr. Mr. Genl.

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The wheels of the cars to be 26 inches diameter, and to not weigh over 200 lbs.; to have 3 1/4 inches tread, with 3/4 flange; the wheels to be bored and slotted for keying; the axle to be 2 1/4 inches diameter in the wheel; to be flanged at each end. Address

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