

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

STATIC ELECTRIC MACHINE.—J. G. H. BURROA, Chihuahua, Mexico. In this patent the invention has reference to means for generating static electricity, and more particularly to the production of a simple, compact, efficient, and reliable form of machine of the so-called "induction" type.

PARTY-LINE TELEPHONE SYSTEM.—W. PARKER, Leicester, N. Y. This party-line telephone system is so arranged that a subscriber, by pressing a button, cuts the line in two and produces a comparatively short metallic circuit of low resistance.

Of Interest to Farmers.

FLOOD-FENCE.—J. ELLIOTT, Martinsville, Ill. In this instance the invention relates to an improvement in flood-fences or water-gates which are used for closing gaps in a line of fence where it crosses streams of water or on very low lands.

BEET-TOPPING MACHINE.—W. D. BUCHTEL, Sr., and W. D. BUCHTEL, Jr., Brady, Neb. This improvement relates to a beet-topping machine, and more particularly to that class adapted for topping beets while they are in the ground.

Of General Interest.

ORE-LEACHING APPARATUS.—W. S. JONES, Greensburg, Pa. This invention is an improvement in the apparatus for use in leaching ores and for similar operations, and is especially applicable to the cyanid process of extracting gold or silver.

STOVEPIPE-CLEANER.—W. J. YEOMAN, Mankato, Kan. The aim of the inventor is to furnish a means or device for cleaning stovepipes and chimney-flues, so constructed that it is adapted to be conveniently inserted in and removed from the pipe or flue.

BABY-JUMPER.—JANE A. MOREHOUSE, Newark, N. J. The purpose of the improvement is to provide a spring-supported rest or seat so constructed and suspended that a saddle is formed beneath an opening in the frame, which saddle is connected with the frame at front and rear of the opening.

Household Utilities.

CLOTHES-RACK.—N. M. COYNER, Frankfort, Ohio. Mr. Coyner's improvement is in that class of racks having a series of hinged or pivoted arms adapted to be extended horizontally and radially or folded in vertical position parallel to each other when not required for use.

Machines and Mechanical Devices.

SUCTION DEVICE FOR PULP-MACHINES.—J. L. YOUNGS, Chateaugay, N. Y. More especially this invention has reference to the class of suction devices or apparatus employed in the manufacture of paper and other pulp for the purpose of eliminating or withdrawing therefrom as much as possible the moisture contained therein.

MACHINE FOR MOISTENING, LAYING, AND BINDING GUMMED PAPER.—BEATRICE SIMPSON, New York, N. Y. The object is in this case to provide a hand-machine more especially designed for binding the edges of lantern-slides, picture-frames, and other passe-partout articles with a gummed strip of paper, leather, or other flexible material.

Railways and Their Accessories.

BLOCK-SIGNAL SYSTEM.—T. SILVENE, Victoria, British Columbia, Canada. Among the several objects of this invention are the following: first, to enable trains upon the same track to warn each other with greater certainty; second, to render the action of the semaphore-arms more efficient; third, to enable the engineer of each train to know whether certain signals are made by his own or by another train, and, fourth, to make certain improvements in the contact mechanism and connection.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry.

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Marine Iron Works, Chicago. Catalogue free. Inquiry No. 6362.—Wanted, a strip of sheet metal about 8 inches wide, 4 feet long, covered with sharp, needle-like points about 1/8 inch long and 1-16 inch apart.

AUTOS.—Duryea Power Co., Reading, Pa. Inquiry No. 6363.—For manufacturers of an automatic funnel. For logging engines. J. S. Mundy, Newark, N. J.

Inquiry No. 6364.—For manufacturers of hot water heating apparatus, for building 25 x 75 feet, four stories high. "C. S." Metal Polish, Indianapolis. Samples free.

Inquiry No. 6365.—For manufacturers of electric motors and 10 to 20 h. p. machines for grinding corn, etc. Perforated Metals, Harrington & King Perforating Co., Chicago.

Inquiry No. 6366.—For the best and latest improved diamond drills. Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 6367.—For estimates of cost of hydraulic turbine wheel complete with bevel gear and 12 feet of horizontal shaft, delivered at Liverpool. Adding, multiplying and dividing machine, all in one. Felt & Tarrant Mfg. Co., Chicago.

Inquiry No. 6368.—For a welding machine to weld steel bars from 1-inch to 2-inch material to be tool steel as a rule. Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 6369.—For makers of the Poulsen telegraph. Robert W. Hunt & Co. bureau of consultation, chemical and physical tests and inspection. The Rookery, Chicago.

Inquiry No. 6370.—For makers of centrifugal tinning equipments, or tinning outfit by centrifugal method. The celebrated "Hornby-Akro" Patent Safety Oil Engine is built by the De La Vergne Machine Company. Foot of East 138th Street, New York.

Inquiry No. 6371.—For a combination dynamo and gasoline engine for an electric plant. I have every facility for manufacturing and marketing hardware and housefurnishing specialties. Wm. McDonald, 180 Main St., East Rochester, N. Y.

Inquiry No. 6372.—For makers of machines for dispersing banana plant. The SCIENTIFIC AMERICAN SUPPLEMENT is publishing a practical series of illustrated articles on experimental electro-chemistry by N. Monroe Hopkins.

Inquiry No. 6373.—For manufacturers and jobbers of novelties, such as dice and novelties. Sheet metal, any kind, cut, formed any shape. Die making, wire forming, embossing, lettering, stamping, punching. Metal Stamping Co., Niagara Falls, N. Y.

Inquiry No. 6374.—For parties to manufacture a bag about size of 2-gallon water bag, strong enough to resist about 135 pounds internal pressure. We manufacture gasoline motor and high-grade machinery, castings best quality gray iron. Select patterns, and let us quote prices. Frontier Iron Works Buffalo, N. Y.

Inquiry No. 6375.—For makers of medicinal tablet machines, also of small paper boxes. Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 6376.—For makers of wood alcohol and acetic acid plants, also paint machinery and felt for manufacture of ready roofing. The Clyde Salvage Company, Limited, 40 St. Enoch Square, Glasgow, desires to get into communication with merchants requiring shipments of scrap iron, chain cable, old horse shoes, anchors and general hard goods, new and old. References: The Union Bank of Scotland, Limited, Scotland.

Inquiry No. 6377.—For manufacturers of voring machines. Patents sold. No advance fee charged inventors. S. H. Human & Co., 371 Washington St., Chicago, Ill.

Inquiry No. 6378.—For makers of bicycle attachments for railroads. Inquiry No. 6379.—For parties making instruments for dentists' use, such as nuts, threaded bars, jack screws, etc.

Inquiry No. 6380.—For makers of kerosene oil engines. Inquiry No. 6381.—For makers of a specialty covered by patents, which can be worked up. Inquiry No. 6382.—For makers of compressed air machinery for carpet cleaning.

Inquiry No. 6383.—For metal frames or clasps used in manufacturing pocket books, also for a simple, inexpensive apparatus for burning on leather with brass or other type. Inquiry No. 6384.—For parties to manufacture 5,000 or 10,000 thin brass plates, stamped, raised letters, as ordered.



Notes and Queries.

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn. Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same. Special Written Information on matters of personal rather than general interest cannot be expected without remuneration. Scientific American Supplements referred to may be had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of price. Minerals sent for examination should be distinctly marked or labeled.

(9515) J. H. B. asks: 1. How is it possible for a horse to receive a severe shock by stepping on the track rails of an ordinary electric road using overhead trolley? I know of a well-authenticated case of this kind. Has the nearness of a car anything to do with it? How could a circuit through the horse be completed? A. We cannot give a decisive judgment regarding the horse receiving a shock by stepping upon a rail of a trolley line. It may be said that many suppose the horse to be peculiarly sensitive to the electric current. Its iron shoes with nails reaching into the inner portion of the hoof are thought to facilitate the entrance of the current into its body. Again, there must have been a difference of potential between the rail and the adjacent ground sufficient to produce a current through the horse when he stepped upon the rail with one foot, and thus made a path of less resistance to ground for the current than was afforded by the earth in contact with the rail. If these several conditions were realized, a horse might receive a shock between the rail and the earth at its side. 2. What would be the effect of varying the resistance in the secondary of a transformer, the primary of which is fed by a constant current transformer. Please state effect on lamps on circuit B and explain action in full. A. We have not seen the arrangement you show in your sketch, a variable resistance in a transformer circuit, in multiple with lamps. We have not the means for testing the arrangement, but it seems to us that the variable resistance, if non-inductive, would short-circuit the lamps, and as the resistance was cut out, the lamps would give less light, since they would get less current.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending December 27, 1904

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

Table listing various inventions and their corresponding patent numbers, including items like Accumulator and regulator, Acid and making same, Air compressor, and many others.







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