

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

INSULATOR.—L. STEINBERGER, New York, N. Y. Mr. Steinberger's invention relates to useful improvements for electric conductors and also for deadening sound-vibrations in electric wires for telegraphs, telephones, and all other appliances where wires or other conductors require insulation from their supports. His more particular objects are to produce a highly-efficient and simple form of insulator in which the insulating quality is very great and in which the arcing distance between the wire and supporting pin is developed to its utmost limits, thereby affording an increased surface for preventing surface leakage and to prevent arcing.

BINDING-POST.—L. STEINBERGER, New York, N. Y. The invention admits of general use, but is of peculiar value, where it is desired that the post be imbedded in a mass of material—such, for instance, as hard rubber, celluloid, electrose, or the like—so as to be permanently secured therein. The object is to produce a useful device adapted for service in a great variety of places and to provide a mode of attachment which while forming a perfect electrical contact between the conductors shall also mechanically clamp or bind them together securely without diminishing their tensile strength and admit of either one of the wires being attached or removed without disturbing the remaining wire.

ELECTRICAL INDICATOR-SIGNAL.—G. W. PERRY, Alexandria, Va. This improvement is in the nature of a signal of the visual type designed to be set by electro-magnetical devices and comprehending a semaphore arm and lamp. Applicable in most of its features for general use, it is more especially designed for use in city streets and is combined with a fire-engine house and the stall-door for the horses and is arranged to give conspicuous visual indication on the street that the engine is about to issue from the house. The object is to avoid dangerous collisions between fire-engines and street-cars or vehicles when the engine is issuing from the engine house.

ARC-ELECTRODE.—D. A. HOLMES, S. A. TUCKER, and E. VAN WAGENEN, New York, N. Y. The invention refers to electrodes used more particularly for arc-lighting; and it consists of a composition of matter from which the arc-electrodes are formed. The composition used for the purpose of forming the electrode contains zirconium carbide, mixed with any desired percentage of a building material, such as coal-tar, lamp-black, molasses, etc.

Of Interest to Farmers.

SELF-MEASURING MACHINE.—W. BROUGH, Baltimore, Md. The object of this invention is to provide an automatic machine for measuring seeds or granular material and delivering the same to bags or other receptacles. The inventor has aimed at compactness, durability, simplicity, and economy of construction and also at convenience of adjustment of certain parts for varying the quantity or charge of seeds or other material measured and delivered at a given time.

SALT-DISTRIBUTER.—A. J. HAUS and A. W. LAARS, Lawler, Iowa. This invention has reference to improvements in devices for distributing salt to fodder or the like discharged from a threshing-machine or shredder, the object being the provision of a distributor that will work equally well with dry salt and damp or lumpy salt.

Of General Interest.

BACK-BAND BUCKLE.—W. R. MEDEARIS, Nashville, Tenn. The invention relates to an improvement in that class of buckles in which a front or face plate slides on a rear or base plate to form a closure for the hook which carries the trace-chain. The aim is to provide a combined back-band buckle and trace-carrier which shall be easily manipulated, and which can be made from a very small amount of material.

BILLIARD-CUE.—C. S. JONES, Indianapolis, Ind. The invention is an improvement in cues, and has for an object to provide a novel construction including a cue-stick and means whereby the same may be operated pneumatically or by air-pressure. By its use the game of pool or billiards may be played upon a smaller table, and a large room will not be required, as in the present method where longer cue-sticks are used. Smaller tables may be arranged in close proximity without players at one interfering with players at adjacent tables. The inventor claims the pneumatic cue will reduce games to a more scientific basis.

STUFFING-BOX.—H. L. NIXON, Bakersfield, Cal. The box is particularly adapted for use in connection with oil-wells in districts in which much sand is ejected with the oil. In these wells it is customary to use a flexible pump-rod, bringing pressure upon the latter. This, with abrasive action of the sand, produces an extremely destructive effect upon the boxes and, as they are customarily of some such hard metal as iron, upon the rods as well, rendering it necessary to often discard both and put in entirely new ones. The invention obviates these difficulties.

METHOD OF SEWING SHOE-SOLES TO UPPERS.—J. A. RHOUT, Haverhill, Mass. The object of the invention is to provide a method for sewing soles of leather shoes, boots,

and similar footwear to the uppers thereof by machinery in a very simple and economical manner without requiring the use of lasts for forming the uppers and allowing the uppers and soles to be sewed together without turning the uppers and without the use of insoles, thereby avoiding straining, cracking, or tearing of the uppers, doing away with insoles, making the shoes more flexible, and materially lessening the weight of the shoe.

BUILDING CONSTRUCTION.—O. PRICE, Plainfield, N. J. In this instance the invention has reference to an improved building-block formed of a composite of concrete or equivalent plastic material and a strengthening metallic frame and to a peculiar manner of constructing these blocks into a building to produce an imitation-stone and other advantageous effects.

NOODLE CUTTER.—W. V. HEINZ, Lasalle, Ill. In this patent the invention relates to a device for cutting dough into strips, such as noodles. The object of the improvement is to provide a device that will cut a parallel series of strips out of a flat piece of dough and at proper intervals will sever the strips for the purpose of making them of uniform length.

INK-HOLDER.—L. EDELMUTH and R. NAUMANN, New York, N. Y. The invention relates particularly to improvements in devices for holding inks, the object being to provide a holder of novel construction, so arranged as to protect the ink from dirt and air, thus preserving the ink in good condition, and further to provide a structure that will facilitate the handling of inks substantially without loss or waste.

SELF-CLEANING FILTER.—O. L. BESSEMER, Hønefoss, Norway. This invention refers to filters employed for filtering water from a river or other waterway, the filtered water being intended for use in towns, dwellings, paper-pulp and other factories. The object is to provide a filter very effective in operation, self-cleaning, and arranged to furnish a constant supply of filtered water and requiring little, if any, attention.

FIRE-ESCAPE.—H. C. WHITLEY, Emporia, Kan. In this patent the invention is an improvement in fire-escapes, and particularly in that class of such escapes known as "frictional," in which the device supporting the escaping person is movable along a rope and friction is utilized to retard the descent of the escaping person.

DUMB-BELL.—C. E. HAM, Boston, Mass. This bell belongs to the "spring" dumb-bell class, which usually comprise oppositely-disposed bars maintained apart by springs. These heads present angular corners, which are a defective feature, offering opportunity for abrading the skin. The inventor overcomes these defects and provides a bell, the body of which presents a resilient resistance to compression. The invention consists in the construction and relation of opposing parts, and concerns itself also with improvements relating to means for guiding them upon each other and for mounting the spring to thrust them apart.

Heating and Lighting.

VAPOR-LAMP.—J. SPIEL, No. 85 Turmstrasse, Berlin, Germany. The chief object in this instance is the production of a more intense generation of vapor, which the inventor effects by constructing and arranging a vapor-generating device (a vaporizer), and the starting or heating-up device in such a manner that the entire heat of the lamp-flame, as well as the heat of the heating-up device, is conducted to a small portion of the vaporizer, which is thereby raised to a bright red heat, so that an efficient generation of vapor is insured, while choking of the vaporizer-nozzle due to partial condensation of fuel is prevented.

Household Utilities.

EXTENSIBLE BEDSTEAD.—W. A. H. JONES, Plymouth, Mass. It is the purpose in this case to provide a connection between the movable and fixed bed-sections consisting of members so disposed that the movable section will be lifted from its position when open or alongside the fixed section and thereupon placed upon the fixed section. Suitable springs are provided in connection with said members, so as to assist the movement of movable section during portion of its movement when it is raised and to offer a certain resistance to the movement when the movable section is being lowered from its highest intermediate position—that is whether the bed is being opened or closed.

Machines and Mechanical Devices.

INTERMITTENT CLUTCH DEVICE FOR TYPE-CASTING AND TYPE-COMPOSING MACHINES.—M. WEHRLIN, 74 Rue de la Victoire, Paris, France. This invention allows of the rocking movements of the yoke being produced exclusively during the period of preparation for the justification before the beginning of each line and of keeping the yoke at rest the remaining time. This arrangement is of very great importance, even with short lines. For instance, with lines containing fifty characters the yoke instead of remaining in motion, as in the English patent No. 18,542, during casting of the type and then during the justification and the carriage of the line, will only operate during justification—that is to

say, instead of making fifty-three complete movements it will only make two.

DISTILLING APPARATUS.—W. B. HARPER, Lake Charles, La. The object of the invention is to provide an apparatus, more especially designed for the manufacture of turpentine, acetic acid, wood alcohol, tar, charcoal, wood-pulp, etc., by the destructive distillation of wood, coal, or other organic or inorganic matter containing any or all these products, the apparatus being durable in construction and arranged to readily separate the volatile matter and oils from the wood and solid matters or fibers from the tar.

AUTOMATIC TENSION DEVICE FOR YARN-WINDING MACHINES.—H. B. BECKMAN, Newburgh, N. Y. The invention pertains to means whereby cord may be wound simultaneously with coarse or fine yarn on a warp-beam which is to be used subsequently in a loom for weaving corded fabrics, whereby a single beam wound as contemplated by this inventor may be used with the same effect in weaving corded fabrics as when yarn and cord are beamed upon separate beams. The prime object is to provide means entirely automatic in its action for winding cord-strands uniformly with yarn of either coarse or fine nature on warp-beams.

INDEPENDENT PORTABLE PROPELLING MECHANISM FOR SEWING MACHINES.—H. MANNING, 1a Foster Lane, London, England. In the present patent the invention consists of separate portable treadle-operated driving-gear especially suitable for use in connection with sewing machines, and is adapted to be held steady by the foot of the operator or to be removably attached to any ordinary table to which the sewing mechanism proper is fixed.

Prime Movers and Their Accessories.

SOLAR MOTOR.—E. P. BROWN, Cottonwood Falls, Kan. In carrying out this invention Mr. Brown had particularly in view the provision of an apparatus including a reflector and a boiler, whereby the rays of the sun may be focused by the reflector upon the boiler to generate steam. Of several objects, another is to provide a reflector designed to turn upon one axis, so as to at all times face or follow the sun in its diurnal movement, said reflector being also capable of moving upon a vertical axis, so as to conform to the annual variations or movements of the sun.

HYDRAULIC AIR-COMPRESSOR.—W. G. COX, New York, N. Y. One purpose of the invention is to improve upon the hydraulic air-compressor for which Letters Patent were formerly granted to Mr. Cox, to such an extent that the mechanism is simplified and two floats instead of but one are employed, one of the floats being connected with the lever-arm controlling the outlet and inlet valves for the water.

STEAM-ENGINE.—J. A. TOOLEY, Stamford, N. Y. To provide a steam-engine of the compound type arranged to utilize the steam in the high-pressure cylinder approximately under boiler-pressure to insure a quick passage of the exhaust-steam from the high-pressure cylinder to the low-pressure cylinder and to utilize the steam in both cylinders to the fullest advantage, is the object of this invention.

ROTARY CARBURETER.—D. B. YOUNG, Culver, Ind. The principal object of this inventor is to provide a carbureter which may be applied to the intake-pipe of a gasoline-engine and which will be operated by the passage of the mixture of the air and gas therethrough to effect perfect and homogeneous mixing of the air and hydrocarbon vapor which form the ingredients of the explosive mixture to be ignited in the cylinder of the engine.

ROTARY ENGINE.—S. S. SADORUS, Sarilda, Idaho. Steam delivered at the feed-ports will operate between adjacent casing abutments and the piston-blades in advance thereof and drive the piston, a track operating upon crank-arms of the pistons to hold the same across the steam-space until the piston reaches the exhaust-port, when the cut-away portion of the track permits the piston-head to tilt, so steam or the like will not be compressed between the same and the abutment which it approaches, and the blade may also be seated in its recess as it passes such abutment and will again be brought to position to receive the impact of steam admitted at the lower feed-port, and the operation will proceed as before.

Pertaining to Vehicles.

AUTOMOBILE.—B. E. HERVEY, Spokane, Wash. For propelling the vehicle four push-rods are employed, which are hinged to the cranks of a crank-shaft, having bearings in brackets attached to the under side of the vehicle-body. Rotation is imparted to the crank-shaft from a counter-shaft, the latter arranged above the bottom of the vehicle and connected with the crank-shaft by sprockets and chains. A motor is employed to drive the counter-shaft. Means are provided for raising the push-rods out of engagement with the ground or roadway to back the vehicle.

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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Perforated Metals, Harrington & King Perforating Co., Chicago.

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Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 6867.—For manufacturers of feathering wheels for stern wheel boats.

Adding, multiplying and dividing machine, all in one. Felt & Tarrant Mfg. Co., Chicago.

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Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

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Braze Cast Iron. See our advertisement in this paper. The A. & J. Mfg. Co., 9 S. Canal St., Chicago.

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I sell patents. To buy them on anything, or having one to sell, write Chas. A. Scott, 719 Mutual Life Building, Buffalo, N. Y.

Inquiry No. 6872.—For manufacturers of spring motors not over $\frac{1}{2}$ or 1-horse power.

The celebrated "Hornsbly-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company, Foot of East 138th Street, New York.

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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. 6874.—For manufacturers of blue prints for small steam engine; slide valve type, with center crank; and developing engine of about $\frac{1}{2}$ horse power.

Useful and Simple Patent for Sale.—A chance for sheet iron workers. Address J. Bergesen, 261 East 51st Street, Flatbush, Brooklyn, N. Y.

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Gut strings for Lawn Tennis, Musical Instruments, and other purposes made by P. F. Turner, 46th Street and Packers Avenue, Chicago, Ill.

Inquiry No. 6876.—For manufacturers of toy balloons capable of supporting a pound weight.

We manufacture iron and steel forgings, from twenty pounds to twenty-five tons. Crank shafts of all varieties. Erie Forge Company, Erie, Pa.

Inquiry No. 6877.—For manufacturers of box and crate-making machinery.

INVENTORS.—Patents (especially Mechanical) bought and sold. Inventions of commercial value financed and exploited in the United States, Canada and foreign countries. Dinning & Eckenstein, Merchants Bank Building, Montreal, Canada.

Inquiry No. 6878.—For manufacturers of folding wire crates.

You can rent a well equipped private laboratory by day, week or month from Electrical Testing Laboratories, 548 East 50th Street, New York. Absolute privacy. Ask for terms and facilities.

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Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, wood fiber machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 6880.—For manufacturers of an article for lightening vehicle tires.

Space with power, heat, light and machinery, if desired, in a large New England manufacturing concern, having more room than is necessary for their business. Address Box No. 407, Providence, R. I.

Inquiry No. 6881.—For manufacturers of very small motors having 1 or 2 h. p.

WANTED.—The patents or sole agency for Britain and France, of new machines and articles used in the Brewing and Allied Trades. Highest references given and required. State best terms with full particulars to "Wideawake," care of Streets Agency, 30 Cornhill, London, England.

Inquiry No. 6882.—For manufacturers of wire-bending and hook and eye-making machinery.

WANTED.—A first-class Machine Shop Foreman; a man who is capable of producing work at the lowest possible cost. Must be a man of ideas and capable of hiring and handling men. Reliability first consideration. Steady position with opportunity to advance. Factory at Waterloo, Iowa. Address Manufacturer, Box 773, New York.

Inquiry No. 6883.—For manufacturers of nickel plated brass wire with spring temper, sizes 23 to 25.

Splendid opening for a high-grade mechanical engineer, who has had a broad experience in managing machine shops, the manufacture of machinery, engines and metal specialties. Applicants must be in prime of life and now employed. Preference will be given to applicants who have had modern scientific training in mechanical schools of high standing. Unqualified references will be exacted. All communications received will be regarded as strictly confidential. Address Mechanical Engineer, Box 773, New York.

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Partner wanted to defray cost of patenting a valuable invention; full investigation. Address Valuable, Box 773, New York.