

RECENTLY PATENTED INVENTIONS. Agricultural Implements.

BEE-TOPPER.—M. W. PALMER, Hamilton, Mich. Mr. Palmer is the inventor of certain new improvements in beet-toppers. The feature of novelty consists in a main frame having a carrier frame movable vertically therein and capable of being operated by means of levers. The cutter-knives are supported by this movable carrier and are arranged to yield when passing obstructions. A gage device operates to automatically limit the descent of the cutters.

HAY RAKE AND LOADER.—E. D. DONEY, Ovation, Mont. The purpose of this invention is to provide a rake with a side-loading attachment, which attachment receives the hay from a conveyer carried by the body of the machine, the conveyer having the hay delivered thereto by a series of rake teeth. Means are provided for elevating the rake head so that large articles may be readily passed.

TOBACCO-TRUCK.—W. G. LITTLE, Farmville, N. C. By this invention Mr. Little aims to provide a truck which will be narrow, so it can be operated between the tobacco rows; will be light, so that it can be readily drawn from place to place; will have sufficient strength, will not be likely to turn over, in which all the wheels will be arranged within the lines of the opposite sides of the bed of the truck, and in which the front of the truck will be supported by a pair of wheels mounted in the wheel-frame connected to turn and affording a support at the front of the truck of sufficient width to reduce to a minimum the danger of the truck overturning.

Apparatus for Special Purposes.

GAS-GENERATOR.—C. J. LUTHER, Red Bank, N. J. The invention consists principally in the combination of devices for carbonizing bituminous coal, the decomposition of steam, and the generation of carburized hydrogen, the coal-gas passing off from one channel, the water gas and heavy carburized gas being successively mixed, fixed, and passed through a separate channel, where it comes in contact with the coal-gas and mixes therewith, the mixed gases being then carried to a separate vessel for use for illuminating or fuel purposes.

CONCENTRATOR.—J. A. HOLMES, Salt Lake City, Utah, and JOHN E. WOOD, Denver, Colo. This invention relates to improvements in concentrators and amalgamators and the object is to provide a machine of this character having novel features of construction whereby all the gold or other values may be quickly separated from the ore or pulp placed therein.

Mechanical Devices.

POWER-HAMMER.—C. H. KREHBIEL, Moundridge, Kans. The object of this invention is to provide an improved power-hammer of simple construction which will be very effective in operation and which is arranged to allow of convenient adjustment of the hammer relatively to the anvil at the will of the operator according to the nature of the work under treatment at that time.

ENVELOPE-SEALING MACHINE.—H. E. GAVITT, Topeka, Kans. The invention is an improvement for sealing envelopes. In operation the envelopes are fed into the machine, the flaps moistened, turned, and finally pressed tightly to sealing position. The machine it is claimed will seal from 8,000 to 15,000 envelopes per hour of any ordinary bulk, mixed sizes, and specially adjusted will seal at about the same rate up to one-half inch in thickness.

Miscellaneous Inventions.

BLANK FOR PIPE-ELBOWS.—E. H. SMITH, Mount Vernon, Ohio. Mr. Smith herein provides a novel construction of so-called "intermediate blanks" used in the construction of pipe-elbows. The blank is composed of sheet metal having opposite semi-cylindrical portions and an intermediate elevated portion. The semi-cylindrical portions are provided with transversely-extending crimps and are united by the longitudinal, intermediate elevated portion.

GRATE.—G. T. VAUGHN, Griffin, Ga. Mr. Vaughn has invented a grate of improved construction which has a marked tendency to prevent smoking and will render the combustion of fuel more perfect than with present constructions, thus effecting a great saving in the expense of fuel and avoiding the vexations due to smoky chimneys.

BODY-BRACE.—P. B. SHELDON, Erie, Pa. The invention relates to an apparatus for relieving the spine of the weight of the shoulders and for otherwise assisting in the support of the trunk of a deformed or ill-developed person.

SPLIT COLLAR.—E. H. SEXTON, Sandyhill, N. Y. Mr. Sexton has provided in this invention an improved split collar of simple and durable construction which may be readily applied to and securely locked in place on a shaft or other revolving part.

PROCESS OF TREATING ANIMAL TENDONS.—E. NELSON, Lima, Ohio. This invention provides a process for preparing animal tendons for use as packings. The process consists in subjecting the animal tendons to

the action of preservatives and then impregnating the tendons thus treated with lubricants. The packings may be used for pumps, engines and nearly all other machines where packings are required.

DESIGN FOR A SIDE FRAME FOR CHATELAIN BAGS.—L. WOLF, New York, N. Y. The design consists in a marginal bead-like border and a central, plain, bevel-like surface within the border, forming a granular, intermediate ground, sharply defined from the border. The general form of the frame simulates that of a crescent with the concave swelled centrally, producing a double ogee form at the concave side of the frame.

COMBINATION-TOOL FOR MANIPULATING WIRE.—E. C. CULLEN, Colorado, Texas. Mr. Cullen is the inventor of a new wire-forming implement which is adapted more particularly to permit ready bending, straightening, shortening and otherwise manipulating of the wires ordinarily used in the construction of fences.

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.

MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 3228.—For a hand machine for fringing or raveling old carpet.

AUTOS.—Duryea Power Co., Reading, Pa. Inquiry No. 3229.—For makers of pocket linen tape measures in spring cases.

"U. S." Metal Polish. Indianapolis. Samples free. Inquiry No. 3230.—For makers of coin vending machines.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt. Inquiry No. 3231.—For manufacturers of machinery for making furniture springs.

Die work, experimental work and novelties manufactured. American Hardware Mfg. Co., Ottawa, Ill. Inquiry No. 3232.—For an electric tattooing machine.

Book "Dies and Die-making," 100 6x9 pages, \$1, post-paid. Send for index. J. L. Lucas, Bridgeport, Conn. Inquiry No. 3233.—For makers of parabolic reflectors for arc light used in wireless telegraphy.

Metal cut, bent, crimped, embossed, corrugated; any size or shape. Metal Stamping Co., Niagara Falls, N. Y. Inquiry No. 3234.—For makers of flexible tubes, about one inch.

Special and Automatic Machines built to drawings on contract. The Garvin Machine Co., 149 Varick, cor. Spring Streets, N. Y. Inquiry No. 3235.—For machinery and accessories for the manufacture of pins and cross arms for telephone lines.

Model and experimental work, tools, dies, and jigs. Inventions developed. Special machinery. G. E. Post, 209 Center Street, New York. Inquiry No. 3236.—For makers of pearl button machinery.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago. Inquiry No. 3237.—For a generator that generates gas from kerosene oil, for use in range or furnace.

The largest manufacturer in the world of merry-go-rounds, shooting galleries and hand organs. For prices and terms write to C. W. Parker, Abilene, Kan. Inquiry No. 3238.—For parties to make a linoleum knife.

We manufacture anything in metal. Patented articles, metal stamping, dies, screw mach. work, etc. Metal Novelty Works, 43 Canal Street, Chicago. Inquiry No. 3239.—For makers of straight-line horizontal engines for automobiles.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York. Inquiry No. 3240.—For information regarding a slot machine for smelting and stamping a miniature horseshoe from sheet steel.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$5. Munn & Co., publishers, 361 Broadway, N. Y. Inquiry No. 3241.—For tempered wire from 3-32 to 3-16 in size.

FOR SALE.—Patent No. 709,728, patented September 23, 1902. Confetti Toy for 4th of July Carnival, etc., a novelty. Write to M. Waldbjorn, 3432 Prairie Avenue, Chicago, Ill. Inquiry No. 3242.—For machinery for making butchers' skewers.

Gasoline Automobile Batteries. William Roche's "Autogas" used properly will carry vehicle twice as far as any other battery of same weight. William Roche, inventor and manufacturer, 42 Vesey Street, New York, N. Y., U. S. A. Inquiry No. 3243.—For a machine for tinning sheet metal on one side only.

Send for new and complete catalogue of Scientific and other books for sale by Munn & Co., 361 Broadway, New York. Free on application. Inquiry No. 3244.—For a dip for sheet copper that will make a smooth, bright surface and will not tarnish readily.

Inquiry No. 3245.—For a 2 h. p. water motor for running printing presses.

Inquiry No. 3246.—For the manufacturers of "Ozonine" for bleaching cloths.

Inquiry No. 3247.—For a self-registering dial thermometer.

Inquiry No. 3248.—For makers of composition carvings.

Inquiry No. 3249.—For the manufacturers of the Star blue flame oil burner for ranges and heaters.

Inquiry No. 3250.—For makers of apparatus for the generation and compression of chlorine gas.

Inquiry No. 3251.—For the makers of the Baker Common Sense oil filters.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending September 30, 1902, AND EACH BEARING THAT DATE.

(See note at end of list about copies of these patents.)

Table listing inventions with patent numbers and names of inventors. Includes items like Advertising display device, Aeroplane, Alkaline salts, Aquatic animals, Auriphone, Automatic brake, Automobile, Awning, Axle, Back and arm rest, Balancing machine, Balls, Bananas, Bandoleer, Battery, Bean cleaning machine, Beating engine, Bed bottom, Bed, Beer cooler, Beer production, Bevel, Bicycle driving mechanism, Bicycle sprocket, Billiard cue, Blast furnace, Blowing engine, Bolt and nut cutter, Book and carbon, Book support, Bookkeeping system, Boom rigging, Boring apparatus, Bottle, Bottle capping machine, Bottle, non-refillable, Bottle, siphon, Bottle stopper, Bottle stopper, water, Box cover fastener, Box of crate, Brake mechanism, Braze, Brick or block paving, Bridle and bit, Brush, Bucket or manger, Buggy top locking brace, Burial case, Burner, Bushing, Bushing for sheaves, Butter packer, Cabinet for bookcases, Camera, Morse, Car brake, Car brake, momentum, Car coupling, Car fender, Car, gondola, Car, mail, Car, railway, Car, steel gondola, Carbonating liquids, Carbonizing apparatus, Carbureter, Carburetor for explosive engines, Carving machine, Cash register keyboard mechanism, Casting box, Cellulose esters, Chair foot rest, Check severing device, Chimney or other curved structure, Cigar bunching machines, Cigar machine, Cigarette machine, Circuit breaker, Circuit breaker, automatic, Clamp, Clock chime, Clothes line holder, Clutch, free wheel or like, Clutch, friction, Clutch, power press, Coal flats, Coffee maker, Colter, S. A. Ingersoll, Combustion, means for promoting, Compasses, needle, Computing chart, Concrete troughs or other articles, moid forming, Converters, starting rotary, Conveyor, spiral, Copper, etc., electrometallurgical treatment of ores, Corn husking machine, Corset, Couch, Cow tail holder, Crate, Banana, Donald & Shouse, Crate, knockdown banana shipping, Cream elevator, Crib, H. Neuman, Crutch, cane, etc., Cultivator, J. Franklin, Cultivator, two row, J. Clausen, Cup, J. Brauning, Current transformer, constant, A. R. Everest, Curtain fixture, window, Strickler & Fisk, Curtain pole and shade fixture, Cutting and collating machine, Cutting device, D handle, Deoborer, Dental apparatus, Display tray, Dock, marine, Door operating mechanism, Door opener, H. P. d'Homme, Draft, producing, C. Scott-Snell, Dredger and excavator, Dredger cutter head, Dress shield, A. T. Stevenson, Drilling jig, magnetic, Dye, brown violet azo, Egg stand, J. Salomon

Table listing inventions with patent numbers and names of inventors. Includes items like Elastic portion and a securing portion, Elastic tip, Electric apparatus interrupter, Electric battery, Electric circuit wires, Electric switch, Electric time switch, Electrical distribution system, Emmet, Elevator, Emery grinder, Engine, W. A. Bole, Engine igniter, Engine indicator, Engine safety appliance, Engine tender, traction, Engraving machine, Envelop, A. J. Arendell, Explosive engine for motor vehicles, Extension table, Eyeglasses, Fan, W. McNamara, Fan, disassemblable, Feeder, automatic boiler, Fence post and fence stay, Fertilizer distributor and seed planter, File, H. F. Engleking, Filter, T. Linke, Fire apparatus for discharging inflammable or other liquids from storage tanks, Fire extinguishing and life saving apparatus, Fire hose, telegraph, Fire lighter, H. Braby, Fireplace, G. Vitelli, Fireproof floor construction, Fireproof frame building, Flashing apparatus, revolving group, Flashing lighthouse lights, ecliping screen for revolving group, Flask, See Molding flask, Flask support, tilting, C. Phelps, Floor clamp or jack, A. Trevisan, Flue scraper, Swinscoe & McCarty, Fluid meter, W. H. Reynolds, Fluid operated signal, Bell & Halstead, Folding box, F. Cunningham, Food manufactory, curing, H. M. Papst, Forging press, hydraulic, H. V. Loss, Fountain comb, J. R. Harrison, Fuel, apparatus for the combustion of finely divided solid, J. W. Bailey, Fume arrester, A. W. Gilliland, Furnace blast regulator, Cabot & Vaughan, Furnace for separating zinc from ores, Fuse igniting tape, J. H. Garson, Garbage furnace, B. L. Walker, Garbage receptacle, F. E. Holzhauser, Garment fastener or supporter, J. Jenkins, Garment holder, N. Douglas, Garment supporter, C. A. Dearborn, Garment supporter, A. A. Mudd, Gas engine, G. Westinghouse, Gas generator, acetylene, G. C. Smith, Gas generator, acetylene, J. Ledru, Gas heater, J. W. Carter, Gas manufacturing apparatus, H. M. Papst, Gases to high-tension discharges, apparatus for subjecting, Bradley & Lovejoy, Gate, J. Clinton, Gate, L. I. Landis, reissue, Glass, manufacture of window and plate, W. E. Heal, Glass pane, strip for securing, J. Swannell, Glass plate making machine, L. Sparr, Grass and excavating machine, W. H. Moreau, Grinding machine, J. Swanson, Gun bar, gas burning, J. A. Abrams, Gun, automatic rapid fire, V. P. De Knight, Gun firing mechanism, V. C. Tasker, Gun, magazine, J. M. Browning, Gun, rapid fire, V. P. De Knight, Hair crimper, J. A. Klaron, Hame and trace connector, G. B. Withers, Hammer, power, Holmstrom, Hanger, H. T. Hallows, Harvester, beet, J. J. Rookus, Hat pin, J. Wiesen, Hatch fastener, Rankin & Dierix, Hay press door closer, P. H. McVicar, Heater, W. L. Warner, Heating or cooling pipe, R. Cominchau, Heel and edge trimming machine guard, Stratton & Cole, Hinge, gate, P. Fullam, Hobble horse, J. Seng, Hog asphalt, S. Harper, Hog belly rolling machine, McLean & Phipps, Hoisting and transporting device, W. H. Hatfield, Hook and eye, J. R. Hard, Horse training apparatus, A. Graf, Hot air apparatus for the human body, G. W. Sawyer, Hub, J. W. Blodgett, Hub, wheel, E. Nolan, Hydrocarbon heater, A. A. Low, Hydrocarbon motor feed-controlling mechanism, Tuck & Wassmann, Hydrostatic press, W. D. Butt, Ice creeper, adjustable, J. H. Downer, Indicator, See station indicator, Indicator, T. F. McCullough, Ink well, J. D. Dickson, Insulating hanger, J. M. Schmidt, Insulator, E. Jeffrey, Insulator, R. S. Peirce, Internal combustion engine, J. A. Prestwich, Jar or bottle closure, F. Tyson, Keyboard perforator, D. Murray, Keyboard instruments, automatic player for, M. Clark, Kinetoscope, T. A. Edison, reissue, Kinetoscope film, T. A. Edison, reissue, Kraut cutter, Kinkade & Mager, Lacing hook, E. L. Fuke, Lamp, acetylene gas, A. K. Miller, Lamp circuits, maintaining uniform resistance in arc, F. A. Gilbert, Lamp, electric arc, C. E. Hartman, Lamp, electric arc, A. F. Shore, Lamp glower and attaching terminal wires thereto, electric, E. R. Roberts, Lamp glowers, circuit breaker for electric, F. M. Godard, Lamps, exhausting incandescent electric, S. E. Doane, Lamps of relatively low voltage, exhausting incandescent electric, S. E. Doane, Lapping machine, W. L. Lewis, Lawn trimming implement, C. Fernstrom, Lead, apparatus for producing white, J. W. Bailey, Lead carbonate, producing, J. W. Bailey, Lead, producing white, J. W. Bailey, Leather working machines, operating roll for, A. F. Jones, Level, grading machine, J. F. Johnston, Level, spirit plumb, spirit, S. Winberg, Level, plumb and inclinometer, G. W. Lingie, Life preserver, C. Hunt

