

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

CORN-HARVESTER.—J. STRAND, Mankato, Kans. In this invention Mr. Strand aims to provide an instrument which when operated in a cornfield will receive the standing corn, snap the ears from the stalks and cut the husks of the ears as they leave the snapping device. The parts are so constructed and grouped that they can be used effectually in connection with husking devices including elevators.

SEED-PLANTER.—J. M. HIGBE, Manson, Iowa. In this seed-planter the dropping mechanism is driven by frictional gearing from the axle or other part connected with the traction wheels of the planter. The gearing comprises two independently operative trains, either one or both of which may be thrown into action as desired, the trains acting independently, to drive the dropping mechanism uniformly. The planted hills may be indicated by dropping on the ground from time to time a quantity of marking powder. Also a small plow may be used in front of each drive-wheel to clear away loose earth and afford a firm bearing for the wheels.

PLOW.—J. P. MULRONY, Plaza, Wash. This plow belongs to that class having cutters in disk-form for loosening the soil and severing weeds as the plow is progressively moved. Certain improvements are herein provided whereby the plow will more effectually excavate and loosen the soil, separate weeds, roots of plants, and other refuse growths therefrom, depositing the same on the surface of the plowed and pulverized soil.

Apparatus for Special Purposes.

TURPENTINE-STILL.—J. T. GILMER, Mobile, Ala. This apparatus is designed for use in the manufacture of rosin, turpentine, and like products. It comprises a gum vat and means for heating the same, a strainer in the upper part of the vat, and a funnel-like partition arranged below the strainer. A filter is situated in the mouth of this funnel-like partition, and the filter is formed of absorbent material sandwiched between screens or sieves.

ACETYLENE-GAS GENERATOR.—C. W. METCALF, Tucson, Arizona Ty. Mr. Metcalf has invented a new machine for generating gas from calcium carbide for illuminating or other purposes. The machine is practically automatic in its operation and is adapted to form a pure and clean gas.

PIPE-CLEANING APPARATUS.—E. D. CASE, Flint, Mich. This invention provides improved means for cleaning beer-distributing pipes or the like, in which the cleaning solution may be at all times ready for instant use. The solution is forced into the pipe or pipes by its own pressure, thus obviating the use of pumps, heating devices, or water pressure.

Electrical Devices.

LEAD FUSE FOR ELECTRIC CIRCUITS.—F. H. KREBS, Romersgade 3, Copenhagen, Denmark. The object of this invention is to do away with the metal lining in fuse plugs for electrical construction, thus cheapening the manufacture. The fuse plugs are so constructed that they may be easily repaired when the wire is melted through. Heretofore when the wire has been melted, new plugs have generally been used, the repairing of the old plug being almost as expensive as procuring a new one.

Mechanical Devices.

MACHINE-GUN.—E. M. CAPPS, San Diego, Cal. This invention relates to machine guns of that class in which a flat series of barrels disposed side by side in a suitable frame are arranged to be reciprocated longitudinally, so as to cause their open breech ends to alternately telescope over a corresponding series of cartridges while the latter are being fired and then advance sufficiently to allow the empty shells to drop, the mechanism for feeding the cartridge exploding the same and reciprocating the battery of the gun barrels being all operated by a crank under control of the gunner. Various important improvements are provided in this invention.

LOCKING DEVICE.—J. W. GONCE, Kinderhook, Ala. The invention relates to improvements in what is termed "ball-and-socket" locking devices that may be employed for a variety of purposes—such, for instance, as for vehicle brakes, shaft couplings, car-couplings, driving gear for mowers, locks, etc.

POWER MECHANISM.—F. CLEMENS, Jr., Delta, Iowa. Mr. Clemens has invented an improved mechanism for transforming and transmitting power. It is particularly adapted to be driven by horse or other animal power and may be used with advantageous results for pumping water, sawing wood and various other domestic purposes.

COMBINED PRESSER-FOOT AND NEEDLE-BAR LIFTING MECHANISM FOR SEWING-MACHINES.—E. O'DONNELL, Fall River, Mass. The improvements provided in this invention when the movement of the presser-foot and needle-bar will be disconnected from the driving mechanism and lifted to a height sufficient to bring the point of the needle above the bottom of the presser-foot when the latter is at its highest position. The advantage of this is that there is no

danger of breaking the needle when material of stiff or cumbersome nature is being placed under the presser-foot, because it is impossible to accidentally start the needle, since when the needle is thus raised it is disconnected from the driving shaft.

FIRE-ESCAPE.—M. WACHTER, Trenton, N. J. This simple and economic form of fire escape comprises a pulley or drum, a support for the same, an endless rope or chain carried by the pulley or drum, and a brake arranged to automatically control the speed of the pulley or drum, thus causing the rope or chain to travel at a slow and safe speed, irrespective of the weight carried.

SURVEYING INSTRUMENT.—T. H. FERGUSON, Soochow, near Shanghai, China. By this invention Mr. Ferguson provides an improved instrument for measuring and automatically recording the distance traveled by a person, animal or vehicle, and the direction or directions of the route taken.

Railway Contrivances.

GRAIN-CAR DOOR.—A. L. HOOK, Coffeyville, Kans. The invention relates to doors for grain-cars and appertains to doors of this character held in slideways and adapted to be lifted therein with suitable mechanism supported above the door, and also adapted to be raised above the slideways and swung up to the top of the car, where they may be supported by a hook or other device.

STATION-INDICATOR.—J. S. ANDERSON, Brooklyn, N. Y. This device is adapted to indicate the stations or stopping-points of railway cars. It is particularly adapted for use in connection with street-railways to indicate the crossing streets, although obviously it may be applied to other railways.

Vehicle Accessories.

VEHICLE-SEAT BRACE.—G. W. VINSON, Paducah, Ky. An improved brace for supporting the seat and body of any vehicle is provided by this invention. In some types of vehicles the seat structure is commonly employed as the sole means for supporting the vehicle-top, and for such construction this invention will be found particularly useful.

FRAME FOR MOTOR BICYCLES.—G. WAGNER and B. B. BIRD, St. Paul, Minn. The frame is arranged to carry the motor in a loop immediately back of the front wheel and below the center of the wheels within a short distance of the ground. The weight of the motor is thus equally distributed between the wheels and permits easy steering of the machine, at the same time protecting the rider from the oil and heat of the motor.

BICYCLE-PEDAL.—J. A. DECUR, New Orleans, La. This bicycle pedal combines the maximum lightness, strength, durability and cheapness. The invention is embodied in the peculiar construction of hubs adapted to rotate upon the spindle of the crank, and the manner of attachment to the hubs of toothed frames or frame-sections constituting foot-holds.

Miscellaneous.

FOLDING STRETCHER OR COT.—J. H. KOONS, Lehighton, Pa. This stretcher is simple and durable in construction and may be easily set up with the parts securely locked against accidental closing. It is adapted to be folded into a comparatively small space for storing or transportation purposes.

STEAM-GENERATOR.—P. STOLTZ, 138 Friedrichstrasse, Berlin, Germany. The invention relates to steam-generators having several groups of tubes connected together, whereby the adjacently disposed longitudinal tubes and the cross passages for connecting the ends of the latter with each other in each group of tubes form an undivided structure.

ASH-SIFTER.—E. WILLCOX, Yonkers, N. Y. This ash-sifter is adapted for ordinary or household use, or it may be made on a larger scale for use in large buildings. The device comprises few working parts which are efficient in operation and not liable to get out of order.

WALL WATER-HEATER.—J. H. MACKLEY, Pocatello, Idaho. Mr. Mackley has in this invention provided a novel construction of heater which can be readily supported against the wall in convenient position for use and connected with a water supply in such manner as to secure a circulation of the water through the heater.

CONSTRUCTION OF TANKS.—E. D. CHESTER, 120 Bishopgate Street Within London, England. The invention relates to a construction of tanks particularly such as are intended for use in cyanide or other solvent treatments of ores. By this improved method the tank may be more easily and expeditiously erected than other similar tanks heretofore used.

SHOVEL-SUPPORT.—J. BAKER, Carroll, Neb. This shovel support is designed to materially assist workmen in raising and delivering material operated upon. The principal object of the invention is to yieldingly support a shovel in such a manner as to relieve the workman of a portion of the burden of lifting the shovel and contents, also to enable the workman in stooping to bear a portion of his weight upon the shovel or support thereof.

SAMPLE CASE AND EXHIBITOR.—SAMUEL M. WIXCEL, Marcus, Iowa. Mr. Wixel is the inventor of an improved sample display case which is adapted for holding and exhibiting wall paper samples. Three exhibitor sections are provided, adapted respectively, to carry a sample of the wall, border, and ceiling patterns, and combined with each other in such a manner as to enable them to be readily and effectively folded into a case provided for the purpose.

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. 3203.**—For makers of farming machinery.
- AUTOS.**—Duryea Power Co., Reading, Pa.
- Inquiry No. 3204.**—For an irrigation pump with a light machine.
- "U. S." Metal Polish, Indianapolis. Samples free.
- Inquiry No. 3205.**—For ten light carts to load about 12 to 15 cwt.
- For bridge erecting engines. J. S. Mundy, Newark, N. J.
- Inquiry No. 3206.**—For makers of light, malleable castings.
- Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.
- Inquiry No. 3207.**—For manufacturers of small capacity ice machines.
- Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.
- Inquiry No. 3208.**—For makers of twist drills.
- WANTED A PATENT.**—To purchase or on royalty. W. S. Chamberlin, 718 Avenue D, Bayonne, N. J.
- Inquiry No. 3209.**—For a complete set of tools for punching, stamping, perforating, polishing small metal buttons.
- Die work, experimental work and novelties manufactured. American Hardware Mfg. Co., Ottawa, Ill.
- Inquiry No. 3210.**—For makers of substitutes for hard rubber.
- Book "Dies and Diemaking," 100 6x9 pages, \$1, post-paid. Send for index. J. L. Lucas, Bridgeport, Conn.
- Inquiry No. 3211.**—For information as to the manufacture of telephone receiver shells and moulds for same.
- FOR SALE.**—Patented novelty Nos. 678,945 and 691,864. For further information address P. O. Box 51, Downingtown, Pa.
- Inquiry No. 3212.**—For a rug-fringing machine which works like a sewing machine.
- Inventions developed and perfected. Designing and machine work. Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y.
- Inquiry No. 3213.**—For makers of games and Christmas novelties.
- Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.
- Inquiry No. 3214.**—For spring motors as are used in large machines.
- Clippings of everything printed on any subject in the American and foreign press. United States Press Clipping Bureau 153 LaSalle Street, Chicago, Ill.
- Inquiry No. 3215.**—For makers of automobile and gasoline engine castings.
- 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. 3216.**—For machinery for making cords and tassels.
- The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.
- Inquiry No. 3217.**—For makers of hot air furnaces.
- 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. 3218.**—For makers of novelties and useful articles for the mail order business.
- WANTED.**—Two machinists accustomed to steam engine work, Corliss and Buckeye preferred; one millwright. Only steady men need apply. Hartford Engine Works, Hartford, Conn.
- Inquiry No. 3219.**—For firms dealing in advertising, household, hotel, toy or railroad novelties.
- FOR SALE.**—Patent for a rotary pump or exclusive manufacturing rights. Superior to any now manufactured. Circular sent on application to Wm. H. Slade, 5 Austin Building, Buffalo, N. Y.
- Inquiry No. 3220.**—For the makers of the "Loki" oil burner for ranges.
- Special tools, models, fine light machinery, experimental and electrical work wanted, also specialties to manufacture. The General Manufacturing Company, 40 West 13th Street, New York City.
- Inquiry No. 3221.**—For a small steam turbine of 1 to 2½ h. p. for experimental purposes.
- 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. 3222.**—For makers of glass paper weights for advertising purposes, with advertisement underneath.
- Inquiry No. 3223.**—For beaded elbows and beaded T's, said to be manufactured by H. Munzing.
- Inquiry No. 3224.**—For manufacturers of malleable iron who can furnish parts of the Covert snap in quantity.
- Inquiry No. 3225.**—For a power or hand machine for weaving wire fence.
- Inquiry No. 3226.**—For machinery for making pearl buttons.
- Inquiry No. 3227.**—For a small, strong machine for grinding rice into flour.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

September 23, 1902,

AND EACH BEARING THAT DATE.

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

Accordion, J. Golob	709,671
Adding machine, E. Fitch	709,477
Adhesive, A. S. Hoyt	709,544
Advertising device, W. D. Butt	709,466
Air compressing apparatus, E. J. St. Croix	709,520
Air compressor, W. J. Stevens	709,832
Air cooling and filtering apparatus, compressed, F. Grumbacher	709,763
Alloys of the alkali metals, manufacture of, G. F. Jaquet	709,489
Ammonia generator, J. A. Young	709,846
Ammunition from the ammunition carriage into the loading axis of the gun, apparatus for transferring, J. Krone	709,781
Arch construction, concrete, W. C. Parnley	709,794
Automobile steering device, G. R. Schlumberger	709,684
Axle spindle take-up device, J. J. Cook	709,747
Bandage, C. J. Higgins	709,767
Bath, See Heat bath	
Batteries, means for controlling the charging of secondary, J. Burry	709,465
Beam clamp, H. S. Collins	709,816
Bean separator, Pilmore & Anderegg	709,646
Bearing, axle, R. McLaughlin	709,677
Bearing, spindle, J. Kilburn	709,821
Bodstead, metal, J. A. Mollitor	709,551
Beer, apparatus for cleaning cellular tissues used in clarifying, C. Spindler	709,652
Beer, manufacturing non-alcoholic, Y. Lapp	709,713
Beet topper, M. W. Palmer	709,720
Bevel, D. E. Hughes	709,487
Bicycle, C. H. Oumpough	709,679
Bicycle, chainless, F. Booth	709,463
Bicycle frame, R. F. Monahan	709,718
Blowpipe, gas, G. B. Snow	709,830
Boards, machine for forming blanks from matched, C. Johnson	709,710
Boiler furnace, A. Muir	709,685
Boiler tube cutter, J. H. Pollard	709,509
Book cover, memorandum, M. Vernon	709,687
Book leaf, C. H. Wheaton	709,529
Bookbinding sheet, G. Hager	709,599
Bookkeeping, C. Seltz	709,725
Bottle rinser, Colby & Heinsdorf	709,698
Bottle stopper, J. T. Illicks	709,819
Bowling alley, H. J. Shipham	709,612
Box or carton blanks, mechanism for removing selvage from, J. Meek	709,789
Brander, electric, Jenkins & Rohmann	709,602
Bread cutter, W. O. N. Morrison	709,533
Bridle bit, C. W. Drown	709,700
Brooder, chicken, N. Pedersen	709,508
Brush, J. Schreiner	709,610
Buggy boot, J. W. Simmons	709,560
Button, wire, S. A. Foster	709,537
Camera, folding telescopic, C. P. Goerz	709,480
Camera stand, adjustable, J. H. Smith	709,612
Cane, magazine torpedo, J. B. Allen	709,457
Cans, measuring and discharging apparatus for filling, J. McGinnity	709,797
Car axles, means for driving generators by power taken from, J. L. Creveling	709,847
Car center bearing, railway, F. Ditchfield	709,755
Car coupling, A. B. Carter	709,468
Car coupling, Seanor & Kepple	709,686
Car end panel and seat post, open, J. Seeberger	709,516
Car grain door, L. A. Hoerr	709,486
Car haul, A. M. Acklin	709,691
Car mover, Harrington & Towers	709,765
Car seat ticket holder, G. H. Roberts, Sr.	709,608
Car seats and seat post with which it connects, end panel for open, J. Seeberger	709,517
Car, stock, W. Cline	709,596
Car uncoupling means, G. Groobey	709,707
Car uncoupling mechanism, railway, G. Groobey & Bush	709,706
Car uncoupling mechanism, railway, Groobey & Bush	709,708
Cars, pivoted rocker bearing center plate for railway, C. M. Thompson	709,564
Carborundum articles and making same, F. J. Tone	709,808
Carburetor, A. M. Rosenberry	709,647
Carburetor, T. J. Forde	709,703
Cart or wagon, dumping, W. Leonhardt	709,716
Case: See Coin case	
Casting pig metal, mold coating for apparatus for, J. M. Hartman	709,672
Cement, adhesive, J. T. Slough	709,651
Change making machine, P. H. Stedman	709,521
Check perforating machine, F. Avery	709,458
Check perforator, M. Keane	709,775
Checkrein hook, J. P. Ketteringham	709,778
Chenille spotting machine, Trivet & Randall	709,628
Chilian mill, Waddell & Evans	709,589
Churn, A. Mitchell	709,497
Chute, adjustable loading, L. Rosenfeld	709,609
Cigarette machines, device for feeding tobacco in, J. Paul	709,507
Clasp or fastener, N. Crane	709,536
Clock, electric, N. Harrison	709,818
Clock pendulum regulator, J. Butcher	709,594
Clothes wringer, E. B. Gay	709,628
Clutch, P. A. Houghtaling	709,771
Clutch operating mechanism, E. Turney	709,567
Coaster brake, C. Glover	709,479
Concave cutting machine, Baker & Fritsch	709,811
Coin case, B. B. Anderson	709,656
Compasses, C. Brandell	709,738
Concentrator, Holmes & Wood	709,770
Conduit, W. L. McGowan	709,504
Conduit rod coupling, J. F. Greaves	709,732
Conveyer, M. Bradfield	709,737
Cooking cabinet, H. Faschier	709,476
Cork fastener, R. Blezinger	709,531
Corset stiffener, H. Torley	709,565
Crate, folding, Heller & Jones	709,542
Creel for selvage spools on slashers, D. M. Sullivan	709,833
Curtain fixture and curtain support, combined, C. B. Jacoby	709,578
Cycle motor attachment, L. M. Meyrick	709,550
Cycle rest, H. U. von Troshke	709,588
Dental gage, C. R. Vanderpool	709,834
Dental mouth mirror, Bennett & Thatcher	709,812
Dice cup, H. L. Haskell	709,633
Display box, B. Budweiser	709,663
Drafting plotter, R. L. Botts	709,736
Draw-off or stretching rollers for textile machinery, A. Bietenholz	709,694
Dredge, mining, Barton & La Bud	709,733
Drying chambers, apparatus for carrying goods through, Keith & Wardle	709,639
Drill: See Grain drill	
Drill press, A. Vlk	709,568
Dynamo and driving gear, combined, J. L. Creveling	709,848
Eggs, preserving, W. Schoning	709,583
Electric wire pole, B. McFarren	709,554
Electrical indicator, H. S. Tittle	709,806
Electrical translating devices, controlling the energy delivered to, H. W. Leonard	709,714
Elevator, Baldwin & Green	709,732
Elevator safety device, A. W. Leach	709,494
Enameled metal plates, manufacture of, D. Wieser	709,530
Engines, electric igniter for explosive, H. A. Gray	709,598
Envelope, Stearns & Weber	709,805
Eraser, blackboard, F. C. Raber	709,722
Eyeglasses, R. B. Finch	709,574
Eyeglasses, E. H. Schild	709,824
Feather fabric, woven, Warren & Holden	709,622
Fence post, C. O. Blee and J. H. Redding	709,735
Fence post, I. M. Warner	709,835
Fence post, metallic, J. A. Utter	709,617
Fences, machine for weaving cross wires in, Groves & O'Day	709,540
File, G. H. Kravik	709,640
File for papers and documents, G. E. Schmidner	709,550

(Continued on page 228)