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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. 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 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. Krees, 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 parrels 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 improve ments in what is termed "ball-and-socket" locking devices that may be employed for a variety of purposes—such, for instance, as for ner as to secure a circulation of the water 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 may be used with advantageous results for pumping water, sawing wood and various other domestic purposes.

COMBINED PRESENTATION AND SHOVEL-SUPPORT.—J. BAKER, Carroll, NEEDLE-BAR LIFT AND HANISM FOR SEWING-MACHINES EN O'DONNELL, Fall terially assist workmen in raising and de-River, Mass. provided in this inpresser-to the operae-bar will be disconnected from a writing mechanism and lifted to a The secondage of this is that there is no port thereof.

danger of breaking the needle when material of stiff or cumbersome nature is being placed UEL M. WIXCEL, Marcus, Iowa. Mr. Wixcel under the presser-foot, because it is impossible is the inventor of an improved sample display 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. 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. FER GUSON, Soochow, near Shanghai, China. By this invention Mr. Ferguson provides an improved instrument for measuring and auto matically 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. DECUIR, New Or leans, 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 footholds.

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 gine work, Corliss and Buckeye preferred; one mill-

WALL WATER-HEATER.—J. H. Mackley, place in this invention provided a novel construction of heater which can be readily supported against beater which can be readily supported against heater which can be readily supported against the wall in convenient position for use and connected with a water supply in such manthrough the heater.

CONSTRUCTION OF TANKS.—E. D. CHES TER, 120 Bishongate Street Within London, England. The invention relates to a construction of tanks particularly such as are intended for use in cyanide or other solvent treatbe driven by horse or other animal power and ments of ores. By this improved method the tank may be more easily and expeditiously erected than other similar tanks heretofore used.

terially assist workmen in raising and delivering material operated upon. The prinvention where a movement of the cipal object of the invention is to yieldingly support a shovel in such a manner as to relieve the workman of a portion of the heig: 80 . 60nt to bring the point of the burden of lifting the shovel and contents, also 1.50dd were the bottom of the presser-foot to enable the workman in stooping to bear a were the latter is at its highest position. portion of his weight upon the shovel or sup-

SAMPLE CASE AND EXHIBITOR.—SAM- INDEX OF INVENTIONS 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.

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 Mchy. 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 manufac tured. 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 lanufacture of telephone receiver shells and moulds

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.

 M_{ϵ} nafacturers 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 estabrated "Hornshy-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.

Inquiry No. 3217 .- For makers of hot air fur-The best book for electricians and beginners in elec-

tricity 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 enwright. Only steady men need apply. Hartford En-

-Patent for a rotary pump or exclumanufacturing 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" bil burner for ranges.

Special tools, models, fine light machinery, experimental and electrical work wanted, also specialties to anufacture. 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 reights for advertising purposes, with advertisement

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.

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.]

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Accordion, J. Golob 709,671 Adding machine, E. Fitch 709,477
Adhesive, A. S. Hoyt
Air compressing apparatus, E. J. St. Croix 709,520 Air compressor, W. J. Stevens
pressed, F. Grumbacher
Accordion, J. Golob 709,671 Adding machine, E. Fitch 709,477 Adhesive, A. S. Hoyt 709,544 Advertising device, W. D. Butt 709,524 Advertising device, W. D. Butt 709,526 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. Jaubert 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. Parmley 709,794 Automobile steering device, G. R. Schlumberger 709,684
Ammunition from the ammunition carriage into the loading axis of the gun, ap-
paratus for transferring, J. Krone 709,781 Arch construction, concrete, W. C. Parmley 709,794
berger
berger 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
Bearing, axle, R. McLaughlin
l Reer, apparatus for cleaning cellular tissues
used in clarifying, C. Spindler
Bevel, D. E. Hughes
Bicycle, chainless, F. Booth
Blowpipe, gas, G. B. Snow
matched, C. Johnson 709,710 Boiler furnace, A. Muir 709,605 Boiler tube cutter, J. H. Pollard. 709,509 Book cover, memorandum, M. Vernon. 709,687
Book cover, memorandum, M. Vernon 709,687 Book leaf, C. H. Wheaton 709,529
Bookbinding sheet, G. Hager
Bottle rinser, Colby & Heinsdorf
Box or carton blanks, mechanism for removing selvage from, J. Meek
Brander, electric, Jenkins & Rohlmann. 709,602 Bread cutter, W. O. N. Morrison. 709,553 Bridle bit, C. W. Drown 709,700 Brooder, chicken, N. Pedersen. 709,508
Bridle bit, C. W. Drown
Brush, J. Schreiner
Camera, folding stereoscopic, 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
Boads, machine for forming blanks from matched, C. Johnson 709, 710 Boiler furnace, A. Muir 769, 695 Boiler tube cutter, J. H. Pollard. 709, 505 Boiler tube cutter, J. H. Pollard. 709, 505 Book cover, memorandum, M. Vernon. 709, 687 Book leaf, C. H. Wheaton. 709, 529 Bookkleping, C. Seltz 709, 725 Bottle rinser, Colby & Heinsdorf. 709, 698 Bottle stopper, J. T. Hicks. 709, 819 Bowling alley, H. J. Shipham 709, 802 Box or carton blanks, mechanism for removing sclvage from, J. Meek. 709, 789 Brander, electric, Jenkins & Bohlmann 709, 602 Bread cutter, W. O. N. Morrison. 709, 789 Brander, electric, Jenkins & Rohlmann 709, 503 Bridle bit, C. W. Drown 709, 709 Brooder, chicken, N. Pedersen. 709, 508 Brush, J. Schreiner 709, 508 Brush, J. Schreiner 709, 509 Button, wire, S. A. Foster. 709, 537 Camera, folding stereoscopic, C. P. Goerz 709, 480 Camera stand, adjustable, J. H. Smith. 709, 612 Cane, magazine torpedo, J. B. Allen. 709, 637 Can seasuring and discharging apparatus for filling, J. McGinnity. 709, 784 Car caughing, J. McGinnity. 709, 784 Car caughing, A. B. Carter. 709, 847 Car center bearing, railway, F. Ditchfield 709, 755 Car coupling, A. B. Carter. 709, 686 Car coupling, Seanor & Kepple 709, 686 Car caugha A. M. Achllen 709, 686
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Car coupling, A. B. Carter
berger
Car haul, A. M. Acklin
car end panel and seat post, open, J. see- berger
Car, stock, W. Cline
Car uncoupling mechanism, railway, G. Groobey
Car uncoupling mechanism, railway, Groobey & Bush
for railway, C. M. Thompson 709,564 Carborundum articles and making same. F.
Car uncoupling mechanism, railway, G. Groobey
Carbureter, T. J. Forde
Case: See Coin case. Casting pig metal, mold coating for apparatus for, J. M. Hartman
Cement, adhesive, J. T. Slough
Check perforating machine, F. Avery 709,458 Check perforator, M. Keane 709,775
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Concentrator, Holmes & Wood. 709,730
Concentrator, Holmes & Wood. 709,770
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Creel for selvage spools on slashers, D. M. Sullivan
Curtain fixture and curtain support, combined, C. B. Jacoby 709,578 Cycle motor attachment, L. M. Meyrick-Jones 709,549, 709,550 Cycle rest, H. U. von Troschke 709,588 Dental gage, C. R. Vanderpool 709,834 Dental mouth mirror, Bennett & Thatcher 709,812 709,633 Disce 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
Jones
Dental gage, C. R. Vanderpool
Display box, B. Budweiser
Draw-off or stretching rollers for textile machinery, A. Bietenholz
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goods through, Keith & Wardle 709,639 Drill: See Grain drill. Drill proces A Ville
Dynamo and driving gear, combined, J. L. Creveling
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
Enameled metal plates, manufacture of, D. Wieser
Engines, electric igniter for explosive, H. A. Gray
Envelope, Stearns & Weber
Eyeglasses, R. B. Finch 709,574 Eyeglasses, E. H. Schild 709,824 Footbox fabric work Warren 9 1133
Drafting plotter, R. L. Botts
Fence post, I. M. Warner
Fences, machine for weaving cross wires in, Groves & O'Day
Fences, machine for weaving cross wires Fines, machine for weaving cross wires in, Groves & O'Day 709,540 File, G. H. Kravik 709,640 File for papers and documents, G. E. Schmidmer 709,559
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