

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

SPEED-INDICATOR.—G. IHLE, 4 Alexandrinenstrasse, Berlin, Germany. The object of this invention is to make an improvement in speed-indicators with magnets and indicating members rotating around the same axis. The indicating member, which is connected in the usual manner with the indicating mechanism, consists of a hollow body and is inclosed upon the greater part of its periphery by the rotated magnet system, an iron core which rotates with the system of magnets extending into this hollow indicating member. This makes it possible to employ a system of magnets forming a considerable mass as it is driven, while the hollow indicating member may be of exceedingly small mass.

Of Interest to Farmers.

ALARM.—H. IRWIN, Fern Hill, Hawkes Bay, New Zealand. The invention relates to alarms, and more particularly to those adapted to serve as scarecrows. Its principal object is to provide an efficient apparatus by which a series of explosions may be produced at definite intervals for the purpose of frightening birds or animals away from trees, crops, and the like.

BREED-CULTIVATOR.—O. SORENSON, Fowler, Col. This implement may be conveniently attached to a sulky. To the axle draw-bars are attached, which extend rearwardly and carry handles. The rear end of these bars are formed into forks to which brackets are pivotally attached, the latter formed integral with special saddle-plates. Opposite these plates are two saddle-plates, and these are connected by special bolts with the first named plates, affording means for clamping the forward beam. As the implement passes once across a field it cultivates two or the equivalent of two rows.

FEEDING DEVICE FOR POULTRY.—H. P. NOTTAGE, Goshen, Mass. In use the feed gravitates, and the finer particles are precipitated from the three compartments of the box through the meshes of the screen which covers the opening leading from one to another compartment therefor in the trough. Poultry picking at the feed through the screen causes it to be loosened up so as to be continuously supplied to the several compartments of the trough. The openings permit poultry to project their bills so as to pick feed from out of the compartments and by the presence of the screen wires or bars, they cannot throw or scatter feed in any attempt to throw their bills from one side or the other.

Of General Interest.

ADJUSTING DEVICE FOR PRINTING-BLOCKS.—W. H. WALDRON, New Brunswick, N. J. Printing-blocks with which linoleum-printing machines are supplied are of considerable length, and apt to bend, so that parts of the printing-surface are impressed with too much force upon the fabric and other parts are either impressed too lightly or do not print. The object in this case is to provide means for adjusting the printing-block so that the several parts thereof can be forced outwardly or inwardly in order to overcome defects due to bending and to present an even printing-surface.

AUTOMATIC FEED DEVICE.—E. J. ERICSSON, San Francisco, Cal. The invention relates to water distribution; and its object is to provide a new and improved automatic feed device for supplying water to flush-tanks, leader-traps, surface drains, and similar contrivances, and the water-supply of which is not sufficiently regular to maintain a permanent seal, as required by modern sanitary plumbing.

BOBBIN.—C. C. COST, Bismarck, N. D. One of the principal objects of the invention is to provide a bobbin by the use of which the necessity of unwinding the same is obviated, thereby dispensing with the use of balling-machines, as well as labor attendant thereupon. A further object is to provide a bobbin by the use of which the twine may in the first instance (as it is spun or manufactured from the fiber) be wound directly into form for balling.

Household Utilities.

CLOSET-TANK.—W. C. A. VISSING, JR., Salt Lake City, Utah. Closet-tanks as now constructed consist of several parts, sometimes containing as many as thirty or more. There are many chances of their getting out of order, and when the float is broken or fails to work they are likely to overflow, thus causing damage. On account of the large number of parts the cost of manufacture is high, as well as cost of maintenance. The washers frequently leak and have to be replaced. This invention is for the purpose of simplifying, cheapening and otherwise improving devices of this character.

SCRUBBING DEVICE.—H. E. H. ARMANN, Gardar, N. D. The invention pertains to a device for brushing and scrubbing. It is especially applicable for use upon floors, but is not strictly limited thereto. The invention comprises a brush, a mop, means for applying water to the mop and to the floor, and means for wringing the mop.

Machines and Mechanical Devices.

MACHINE FOR PRINTING AND ISSUING RAILWAY-TICKETS.—R. T. PISCICELLI, Piazza della Borsa, No. 22, Naples, Italy. Tickets printed may be either for predetermined or other stations. The machine prints: the name of the issuing station; the station for which ticket is issued; the date of issue; the number; the class and kind of tickets; the price; the number of the train; and information, advertisements, etc., on the back. While issuing a ticket, it adds money received; adds the number of each kind of ticket (single, return, express, or ordinary trains, &c.) issued; adds total number of tickets issued; and prints on a continuous paper ribbon a duplicate of matter printed on each ticket.

HOISTING AND CONVEYING APPARATUS.—C. J. Hergen, New York, N. Y. This patentee's invention relates to a device for hoisting and conveying purposes in general, and is especially applicable to loading and unloading ships. It comprises a cable or similar flexible element placed on an incline and a carriage mounted on the cable and adapted to move along it, the carriage being provided with automatic means for manipulating a pulley to assist in the several operations of loading and unloading.

Designs.

DESIGN FOR A ROSARY.—H. F. NEHR, New York, N. Y. The ornamental effect secured by this designer is made neat and chaste. The junction of the loop and pendant is made by a heart shaped medal containing a head of Christ. A plain and well proportioned crucifix is at the usual end of the rosary.

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. 8006.—For manufacturers of novelties and specialties.

For hoisting engines, J. S. Mundy, Newark, N. J.

Inquiry No. 8007.—For manufacturers of street cleaning or street sweeping machines.

"U. S." Meral Polish, Indianapolis. Samples free.

Inquiry No. 8008.—For manufacturers of composite wire for making watch chains.

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

Inquiry No. 8009.—Wanted, address of any company which treats on the subject of "Expanded Metal" and also address of some gas-producing company whose outfit would not exceed four or five thousand dollars.

I have for sale the U. S. and all foreign rights of new patent improvements in Water Tube Types of Boilers. Great economizer. J. M. Colman, Everett, Wash.

Inquiry No. 8010.—For manufacturers of egg separators.

PATENTS.—European Rights. I want sole agency for Europe for good-selling patents, or might buy rights. James R. Moodie, 73 Inverleith Row, Edinburgh, Scotland.

Inquiry No. 8011. Wanted, address of parties who install galvanizing plants.

Well gotten up typewritten letters will increase your business. \$2 per 1000.

Typewritten Letter Co., St. Louis.

Inquiry No. 8012.—For manufacturers of machines for scoring scale on rulers.

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

Inquiry No. 8013.—For manufacturers of bench plane handles and stocks.

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

Inquiry No. 8014.—For manufacturers of street sweepers.

FOR SALE.—One Shafer Hydraulic Platen Press, 60 tons pressure, 18 inches platen with a 12-inch movement of ram; complete, with pump belt drive, lock-up pressure and safety valve. Vacuo-Static Carbon Co., Mill and Platt Sts., Rochester, N. Y.

Inquiry No. 8015.—For manufacturers of fire extinguishers.

FOR SALE.—At Taunton, Mass., patterns, patents, drawings; 4 to 25 horse-power gas or oil engines. Ten years test. Can furnish sample. Hadwen Swain Mfg. Co., 505 Sacramento St., San Francisco, Cal.

Inquiry No. 8016.—For manufacturers of chains for weight clocks.

FOR SALE.—Patent rights for United States on three illustrated post card novelties. If interested send 50c for samples. W. Becker, Jeffersonville, N. Y.

Inquiry No. 8017.—Wanted, address of parties who can give the most modern method of condensing or extracting water from sweet skimmed milk.

Inquiry No. 8018.—Wanted, address of makers of gas producer plants suitable for cooking, heating and lighting ordinary dwellings.

Inquiry No. 8019.—For manufacturers of Squeezre's easy floor cleaner or mop.

Inquiry No. 8020.—Wanted, address of parties making Brandt's kerosene pumps, tin pierceing

Inquiry No. 8021.—For manufacturers of machinery and apparatus for the manufacture of liquid carbonic gas.

Inquiry No. 8022.—For manufacturers of decorating machines for jute fiber.

Inquiry No. 8023.—Wanted, manufacturers to make connecting fittings for wagon tongues and neck yokes consisting of castings and ball bearing pivot.

Inquiry No. 8024.—For manufacturers of a machine for rolling and gluing paper funnels or cornucopias.



HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or inquiries. 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.

(9941) A. J. C. asks how to polish

German silver. A. Take 1 pound peroxide of iron, pure, and put half of it into a wash basin, pouring on water, and keeping it stirred until the basin is nearly full. While the water and crocus are in slow motion, pour off, leaving grit at the bottom. Repeat this a second time, pouring off into another basin. Cleanse out grit, and do the same with the other half. When the second lot is poured off, the crocus in the first will have settled to the bottom; pour off the water gently, take out the powder, dry it, and put both when washed clear of grit, and dried, into a box into which dust cannot get. If the silver work is very dirty, rub the mixture of powder and oil on with the fingers, and then it will be known if any grit is on the work. If the work is not very black, take a piece of soft chamois leather, and rub some dry crocus on, and when well rubbed, shake out the leather, and let the powder fall off that is not used, or rub it off with a brush. Do not put down the leather in the dust.

(9942) P. E. M. asks how to remedy a warped pole. A. Wet the concave side, and then hold the convex side to the fire.

(9943) J. V. B. says: Is it a scientific fact that when a fluid issues from an orifice, a rectangular aperture for example, the flow, which just after issuing is rectangular in section like the hole, twists about so that a short distance from the orifice the section is a rectangle having its corresponding sides at right angles to those of the hole? A. It is a fact that a fluid, issuing from a rectangular orifice, twists about in position as you describe. This is due to the fact that fluid rushing through the corners of the rectangular orifice tends to flatten out after leaving the orifice, while that part of the fluid coming through at the sides tends to bulge, thus giving the effect of apparently twisting in the flow. We have no SUPPLEMENT articles with regard to this matter, and we know of no published data on the subject.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending April 3, 1906.

AND EACH BEARING THAT DATE

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

Acid, making sulfuric, R. Knetsch..... 816,918
Adding device, L. E. Coleman..... 816,781
Advertising apparatus, display, E. O. Wilcox..... 816,692
Aerial cables, suspending, L. A. McNeil..... 816,931
Air currents, means for producing, B. A. Stowe..... 816,759
Air lock, S. W. Chiles..... 816,642
Air ship, dirigible, A. Bratschie..... 816,706
Air to electric discharges, apparatus for subjecting, Mitchell & Parks..... 817,082
Ammonia, producing, Lyons & Broadwell..... 816,928
Ammonia vaporizer, J. Robson..... 816,743
Anchor, George & Smith..... 816,857
Anchor, guy, C. J. Widmer..... 816,631
Anchor, land, W. E. Cissna..... 817,044
Animal trap, C. F. Nelson..... 816,814
Anticrepper, C. Lien..... 816,926
Apparel pad, H. W. Thompson..... 817,020
Atomizer, I. Q. Gurnee..... 816,656
Automobile horns, means for blowing, G. W. Lorimer..... 817,125
Automobile wheel, C. B. Kimball..... 816,666
Barber's appliance, G. W. Hale..... 817,111
Barrel forming device, I. H. Melvin..... 816,872
Barrels and pipes, lining working, N. C. Stoner..... 816,890
Bath spray, A. N. Lattin..... 816,924
Battery. See Storage battery.
Bayonet fixing arrangement, A. Berthier..... 816,954
Baying, ball, F. Leffer..... 817,124
Bearing lubricator, slide, W. L. & F. S. Card..... 816,778
Bearing, roller, W. Houldsworth..... 816,798
Bearing with weight-controlled lubricant, M. Kemmerich..... 817,118
Bed, tilting or wall, J. B. Eastman..... 816,718
Beds, folding seat for metal, M. Faas..... 816,974
Bench stop, Prahl & Kistner..... 816,999
Binder, W. G. Jones..... 816,915
Binder, loose leaf, S. C. Nett..... 816,734
Blankets, rugs, and similar coverings in position, appliance for retaining, O. E. Buley..... 816,710
Block signal system, automatic, A. L. Bower..... 817,036
Blotter or blotting pad, H. Krantz..... 817,073
Boat, motor, C. H. Spence..... 816,735
Boat, submarine, M. Naletoff..... 817,130
Belts and retracting the treads thereon, tool for straightening, J. D. Edmonds..... 816,570
Boat calk, C. Pfeiffer..... 817,090
Boiling machine, taper, A. Fernandez..... 816,854

Boring tool, reamer, and the like, T. Burns..... 817,042
Bottle, J. C. Anderson..... 817,033
Bottle capping machine, S. C. Miller..... 817,129
Bottle neck and stopper, S. D. Rodgers..... 816,744
Bottle, non-refillable, G. Kerr..... 816,582
Bottle, non-refillable, A. G. Abizaid..... 816,699
Bottle, non-refillable, W. S. Freal..... 816,789
Bottle, non-refillable, W. P. Swett..... 816,829
Bottle, non-refillable, O. E. S. Azzenli..... 817,034
Bottle socket, H. F. Haviland..... 816,979
Bottle stopper, H. O. Brawner..... 817,038
Bottle washing device, H. H. Foggensee..... 816,818
Bottle washing machine, P. D. Laible..... 816,920
Bottles, jars, and other vessels, closure device for, W. B. Fenn..... 816,720
Bottle bit cheek piece, N. Stalker..... 816,615
Broiling apparatus, J. G. Lanz..... 817,145
Brooder, C. A. Tuck..... 817,021
Brush, I. C. Isaacs..... 817,117
Brush, fountain paint, A. Wagner..... 816,765
Brush holder, C. A. Harris..... 816,793
Bucket, dumping, A. Henderson..... 816,579
Buckle, S. M. Holt..... 817,065
Butter into smaller blocks of predetermined sizes, means for cutting up large blocks of, T. H. H. Wildenbom..... 817,027
Button blank grinding and feeding machine, W. E. Knott..... 817,121, 817,122
Cable grip for cable hauled trucks and the like, Ellingen & Deehle..... 817,053
Cable splicing socket, J. L. Frazier..... 816,721
Calculating machine, S. E. Swick..... 816,760
Calking tool, R. J. Webster..... 816,952
Camera, photographic, J. D. Garfield..... 816,907
Cans, screw cap for, F. A. Bergman..... 817,100
Cane carriage, feeder for sugar, L. M. B. Capsule spinning, trimming, and stacking machine, E. Watzke..... 816,694
Car attachment, railway, S. Constable..... 817,103
Car brake, beamless, G. W. Swisher..... 816,617
Car coupling, J. Darling..... 816,565
Car coupling, E. J. Cobb..... 816,711
Car coupling, J. E. Wade..... 816,951
Car coupling, F. A. Ramey..... 817,001
Car coupling, W. E. McDonald..... 817,088
Car coupling and drawhead, A. W. Lewis..... 817,077
Car coupling, automatic, E. Salmen..... 817,095
Car door, F. A. Delane..... 816,951
Car door safety bracket, O. M. Stimson..... 817,015
Car dump, H. M. Ramsey..... 816,736
Car mover, F. Mertsheimer..... 816,873
Car, railway, J. R. Jones..... 817,068
Cars or vehicles along a railway, apparatus for controlling the passage of, L. H. Thullen..... 816,762
Carburetor for explosive motors or engines, H. C. Doman..... 817,051
Carburetor for petroleum motors, Charbon & Girardot..... 816,846
Carrier, See Hay carrier.
Cart, J. A. Watt..... 816,627
Casket handle and socket plate, J. C. Edwards..... 816,653
Caster, ball bearing, J. W. Self..... 816,944
Castings, forming, W. Brinton..... 816,709
Cement block making machine, E. & J. O. Silva..... 816,613
Cement burning furnace, W. E. Snyder..... 816,753
Cements, manufacture of acid proof and impermeable, F. Liebig..... 12,470
Cheese cutting machine, J. W. Culmer..... 816,713
Chisel, carpenter's, W. S. Ward..... 816,626
Check, mooring and towing, N. L. Skene..... 816,827
Chronograph, Wildenmann & Mond..... 816,767
Churn, J. C. McCallum..... 816,732
Churn, J. C. McVeigh..... 816,992
Churn, F. L. Decker..... 817,049
Churning machine, H. L. Van Dusen..... 816,621
Cigar container, S. C. Marum..... 816,673
Cigar cutter, N. Du Brul..... 816,569
Clasp, H. Watson..... 817,044
Clay cleaning apparatus, A. Sabor..... 816,744
Clock, A. W. Owen..... 817,147
Clock and fan, combination, S. D. Earl..... 816,903
Clock, electric programme, A. L. Roell..... 816,938
Clothes line, C. C. Johnson..... 816,664
Clover huller, W. C. Robby..... 816,823
Clutch, G. E. Franquist..... 816,906
Coal pocket, Hoover & Mason..... 816,797
Coal washing apparatus, R. L. Martin, Jr..... 816,672
Cock, stop and waste, G. P. Hilgen..... 816,757
Coin controlled apparatus, M. F. Price..... 816,936
Collar, horse, J. Enlberg..... 816,785
Collar, pneumatic horse, I. J. Thomsen..... 816,761
Collars, metallic reinforcement for harness, J. C. Hooper..... 816,660
Coloring or painting composition, R. W. Cornelison..... 816,648
Colter, J. Moeller..... 817,083
Compass, mariner's, Thomsen & Clark..... 816,618
Condenser, H. C. Ruggles..... 816,602
Controller, T. von Zweigbergk..... 817,031
Conveyor, R. C. Hills..... 817,115
Conveyer pipes, distributing nozzle for, O. E. Bray..... 816,897
Conveying apparatus, A. & J. M. Hall..... 816,910
Core oven, A. B. Day..... 816,967
Cornice brake, G. C. Keene..... 816,917
Cotton blecker, F. M. Bradley..... 816,638
Cover, removable dust protective, I. J. Dirand..... 816,568
Crate, folding, W. H. Kelchner..... 816,801
Culinary vessel attachment, C. M. Wasley..... 816,802
Cultivator, W. Sebey..... 817,012
Cultivator and planter, convertible, H. Warfield..... 816,693
Cultivators, balancing mechanism for wheel, A. C. Lindgren..... 816,868
Curtain pole, J. T. Ezzell..... 816,786
Curtain pole, bracket, and window shade holder, combined, J. H. Seegers..... 816,684
Cuspidor, E. T. Willhoit..... 817,029
Cuspidor, car, E. Metzger..... 816,809
Cutter head for shapers, C. Backman..... 816,963
Cutting headings, machine for, W. A. Lathrop..... 816,923
Cutting machine, W. C. Quinlan..... 817,000
Dagger for steeples, gues, etc., H. W. Conway..... 816,712
Davenport pad, R. Coopersmith..... 817,139
Dental contour pliers, N. H. Smith..... 816,828
Dental floss holder, J. C. De La Cour..... 817,050
Dental instrument for raising barbs upon wires, L. S. Lourie..... 816,668
Dental tool shield and moistener, C. A. Sevier..... 816,685
Derrick, McClain & McDaniel..... 816,590
Detector bar clip, J. S. Hobson..... 816,658
Dining and billiard table, combined, W. Stevenson..... 817,097
Dish drying device, A. S. King..... 817,120
Dispensing receptacle, Rider & O'Donnell..... 816,822
Display apparatus, A. A. Phipps..... 816,598
Dolls, eye mechanism for, S. D. Gifford..... 817,055
Door, gate, and the like spring, G. M. Bett..... 816,556
Door, grain, J. Riley..... 816,740
Door holder, W. Squier..... 816,757
Door opener and closer, fluid pressure, A. M. Spink..... 817,014
Downdraft fan, G. E. Snowden..... 816,752
Draft equalizer, Parks & Day..... 816,816
Drawer stop, C. T. & H. Garden..... 816,574
Dredger and bed rock cleaner, P. Bouery..... 816,958
Drill. See Miner's drill.
Eaves trough hanger, A. E. Scherer..... 816,941
Electric elevator system, A. Magnusen..... 816,869
Electric furnace, A. G. Betts..... 816,554
Electric light fitting, H. E. Pass..... 816,996
Electric meter, R. C. Lanphier..... 816,922
Electric or signal wires, cross-arm for, A. H. Lihman..... 816,881
Electric traction elevator, A. Magnusen..... 816,806
Electric tramways working upon the slot conduit system, point or switch for, A. N. Connett..... 816,646, 816,647
Electric transmission pole, J. L. Weller..... 816,628
Electric waves, apparatus for producing, A. Artem..... 817,137
Electric wire conduit, D. H. Murphy..... 817,086
Elevator, T. E. Murray..... 816,677 to 816,679
Elevator, J. Lehrman..... 817,076
Engine igniter, internal combustion, A. R. Curtis..... 817,104
Engine sparking igniter gasoline, J. C. McLachlan..... 816,990
Engraving machine tracer and tool, M. Barr..... 816,700
Excavators, dredges, and the like, operating mechanism for, Ferris & Bager..... 816,573
Exercising machine, R. W. Blaisdell..... 816,957
Explosive compound, M. S. Talbot..... 816,830
Extension table, C. H. Goller..... 816,791
Eyeglasses, W. H. Weaver..... 816,763
Eyeglasses, L. F. Addt..... 816,837