

Business and Personal.

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Marine Iron Works. Chicago. Catalogue free. For hoisting engines. J. S. Mundy, Newark, N. J.

Notes & Queries

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters, or no attention will be paid thereto. This is for our information and not for publication.

(7633) J. N. D. asks: 1. About what would be the required dimensions of the glass plate in a simple electric machine, to charge a small Leyden jar?

(7634) F. V. writes: While experimentally testing the efficiency of a ground wire of a telephone line from Winsted to the railroad station at Lester Prairie, six miles south of here, the ground wire of the telephone at that point was connected with the telegraph wire.

(7635) P. N. writes: I am interested in a scientific problem on which I desire the evidence of or decision of a second party, and would ask you to answer the following: Suppose a man weighing 150 pounds will require to expend a force of 50 foot pounds (or a certain amount of force) to walk a certain distance, can the same man travel the same distance over the same road on a modern bicycle of 20 pounds weight with less force expended?

In its natural way of locomotion—walking—is superior in economy of force to one seated on a bicycle and imparting the force to the wheel? A. The bicycle is a great conservator of animal power.

(7636) J. K. asks the difference between a marine, field, and night glass. A. Marine glasses are also termed night glasses when they have a large diameter object glass, which is used at full area at night and reduced area by day, by placing a diaphragm cap over the object glass.

(7637) E. S. asks for the formula for a compost to imitate marble, which will be very hard and will take a high finish, and how to polish the same.

TO INVENTORS.

An experience of fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere.

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

MARCH 28, 1899.

AND EACH BEARING THAT DATE.

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

- Adding machine, T. Lanston..... 622,157
Adding machine and register, J. A. Turck..... 622,091
Advertising apparatus, railway, C. J. Feder..... 622,185, 622,186

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- Cooking and heating apparatus, J. H. Goodfellow..... 621,813
Corn husking machine, R. J. Holmgren..... 621,919
Coupling, See Car coupling. Thill coupling..... 621,787
Cue tip, H. Braun..... 621,894
Cultivator, L. L. Boyer..... 621,894
Cultivator, P. Frazier..... 621,895
Cultivator, W. F. Pattison..... 622,162
Cultivator, J. M. Wright..... 622,096
Cultivator attachment, Welch & Dickey..... 622,093
Cultivator, disk, J. C. Smith..... 621,865
Cutter, See Twine cutter.
Cycle driving mechanism, H. E. Shepard..... 622,085
Cycle or other road vehicle, J. R. Heath..... 622,044
Cycle rear for end, A. Jerome..... 622,006
Cycles, means for holding, H. A. Ivatt..... 621,814
Decorative plate, tile, etc., S. Rosenberg..... 621,814
Dental disk holder, G. E. Zinn..... 621,847
Dental nerve broach, W. Vajna..... 621,873
Dipping tank, Moulton & Jones..... 621,934
Diab cleaner, C. E. Drake..... 621,964
Displayer, duplicate design, W. Macdonald..... 621,855
Distillation, preparing wood for dry, F. W. J. F. Schmidt..... 622,194
Door bolt, E. Burns..... 621,896
Door cap, sliding, E. H. Doane..... 622,123
Door fastener, H. W. Reesterna..... 622,127
Door lock, gravity, J. H. Canaday..... 621,898
Door stop and catch, combined, J. R. Lavigneur..... 621,830
Draught equalizer, Maxwell & Dimock..... 621,837
Draught rigging, G. S. Marshall..... 622,056
Draughting and measuring tool, combined, W. G. Howard..... 622,128
Dress or skirt holder, A. Urtel..... 622,027
Easel, J. Schwarz..... 621,856
Egg carriers, machine for making, S. E. Davis..... 622,038
Electric circuits, overload safety device for, L. G. Rowand..... 621,976
Electric heater, D. S. Reed..... 622,166
Electric switch, M. H. Caspari..... 622,116
Electrical distribution system, W. H. Knight..... 621,827
Electricity from machinery of locomotives, means for generating, H. F. Roach..... 622,078
Electrolytic cell, H. H. Dow..... 621,907
Electrolytic cells and producing same, porous diaphragm for, H. H. Dow..... 621,908
Elevator controlling apparatus, M. B. McLauthlin..... 621,970
Elevator swiveled spout, D. A. Robinson..... 622,019
Engine, See Compound engine. Internal combustion engine. Rotary engine..... 621,916
Excavator, A. F. Nims..... 621,938
Exhibition cabinet, R. T. Swann..... 621,870
Expansion joint separator, D. O'Hair..... 621,940
Extractor, See Honey extractor. Stump extractor.
Eyglasses guard, J. A. T. O'Brig..... 621,939
Fare box, registering, O. Katzenberger..... 621,921
Fastener, W. S. Seymour..... 621,859
Fastening device, C. A. Feaser..... 621,913
Fence posts, coating metallic, R. Kennedy..... 622,009
Fibrous materials, apparatus for cleaning, combined, J. V. Archer..... 622,031
Filter, C. L. Charrat..... 621,899
Filter, T. Linke..... 622,052
Filter for attachment to water taps, J. H. Niemann..... 621,937
Filter, water, S. M. Boyer..... 621,786
Filtering cider or spirits, apparatus for, O. N. Felts..... 621,803
Fire escape, J. O. Miller..... 622,059
Fire escape, E. Kobigle..... 622,079
Fire hose reel, J. S. Patterson..... 622,067
Fish hook, J. V. Payton..... 622,069
Fluid pressure brake, automatic, J. J. Finney..... 622,135
Fluid pressure regulator, I. H. Spencer..... 622,025
Furnace, See Hot air furnace.
Furnace implement, W. L. Williams..... 622,094
Furnaces, etc., apparatus for burning liquid fuel and in application thereof to heating, De Roussy de Sales & Charbonnel..... 622,172
Furnaces, preventing smoke and improving combustion in, J. M. Wilson..... 621,884
Fuse, protective, E. B. W. Reichel..... 622,075
Game, H. E. Coombs..... 621,960
Game, A. Dreher..... 622,130
Game apparatus, Huggins & Pollak..... 622,152
Game board and apparatus therefor, W. H. Degees..... 621,799
Garment, R. E. Lowe..... 622,010
Garment stretcher, J. F. Brock..... 622,112
Gas burner, E. Bernthauser..... 621,857
Gas burner, Munch & Wiedner..... 621,840
Gas burner, electric lighting, J. M. Anck..... 621,778
Gas burner, fuel, J. C. Kurtz..... 621,968
Gas burner, incandescent, A. Bandsept..... 621,783
Gas burner, incandescent, J. B. De Lery..... 621,927
Gas burner, oil, means for lighting incandescent or other, P. Bardot..... 621,784
Gas globes, spring holder for, D. O. Sayre..... 621,948
Gas lights, apparatus for forming incandescence mantles for, W. H. A. Sieverts..... 621,979
Gas meter, coin controlled, Cort & Langwith..... 621,942
Gas regulator, J. Duncan..... 622,095
Gate, J. B. Miesse..... 622,069
Gate, W. R. Pitt..... 622,016
Glass working machine, I. W. Colburn..... 621,794
Globe, smoke consuming, J. Durlam..... 621,910
Glove fastening, C. A. Fenning..... 622,164
Golf sticks, finishing rods, etc., handle grip for, E. Crosier..... 621,933
Governor, astatic centrifugal, M. Tolle..... 621,871
Grain or hay, cover or roof for protecting, J. B. Deems..... 621,798
Grain or seed cleaner and grader, A. D. Ferguson..... 622,012
Grain steeping trough or cistern, F. Knutzel..... 621,911
Graphophone, coin controlled, T. H. Macdonald..... 621,834
Graphophones, etc., trumpet for, J. W. Kemp..... 622,121
Grate bar, D. S. Richardson..... 622,077
Grinding machine, J. Gilson..... 621,810
Gun barrel cleaner, device for, J. W. Scott..... 622,130
Hack clamp, J. G. B. Rouse..... 622,081
Hair pin, C. M. Dissoway..... 622,039
Hame fastener, H. M. Sheer..... 622,084
Handle, See Stamp handle.
Harrow, spring tooth, J. H. Young..... 621,954
Hauling and conveying apparatus, H. R. Palmer..... 622,040
Hat, coachman's, H. Falkenbach..... 622,040
Hat fastener, H. J. Grote..... 622,002
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Heater, See Electric heater.
Heel, boot or shoe, Ford & Starr..... 621,914
Holding and conveying apparatus, H. R. Palmer..... 622,040
Holdback attachment, vehicle, F. J. Hess..... 622,145
Honey extractor, centrifugal, A. Kuschel..... 622,156
Hook, See Fish hook.
Horse power, J. C. Bowsher..... 622,110
Horseshoe studs or calks, apparatus for manufacturing, H. R. Palmer..... 622,132
Hose and nozzle holder, J. M. Dungan..... 621,854
Hose signal system, electric, H. Sargent..... 621,806
Hot air furnace, P. F. Filieuz..... 621,949
Hot water circulating apparatus, R. R. Gibbs..... 621,999
Hydrocarbon burner, G. Heysel..... 622,146
Hydrocarbon burner, Moor & Marbach..... 621,932
Hydrocarbon burner lighting device, O. F. Moon..... 621,933
Impact tool, T. H. Phillips..... 622,165
Indicator, See Interest indicator.
Insulating compound, B. Ford..... 621,807
Interest indicator, C. O. Adams..... 622,048
Internal combustion engine, H. C. L. Holden..... 622,047
Jacquard machine, open shed, Stafford & Keimel..... 621,949
Joint, See Rail joint.
Knob, electrical, C. M. Brown..... 622,177
Lamp, acetylene gas, E. E. Peck..... 622,015
Lamp chimney packing device, T. F. W. Schmidt..... 622,023
Lamp, electric arc, R. Scheffbauer..... 621,855
Lamp, electric arc, E. P. Warner..... 622,176
Lamp, electric incandescent, C. Howard..... 622,151
Lamp filament, incandescent electric, C. H. Stearn..... 622,087
Lamp holder, D. O. Sayre..... 621,947
Lamp, incandescent gas, L. Denayrouze..... 621,962
Lamp, miner's, H. J. Richards..... 622,076
Lamp spring carrier, J. Kirckbaum..... 622,123
Lamps, keyless switch socket for incandescent, M. Meyberg..... 622,188
Lantern, A. Cornish..... 622,122
Latch stop, H. G. Voight..... 621,874
Letter box, K. J. Peers..... 622,197
Limb, artificial, W. E. Ginn..... 622,140
Lock, See Alarm lock. Door lock. Permutation lock. Pin lock. Wagon gate lock.
Looping switch, J. Short..... 621,940
Malt drying apparatus, W. H. Prinz (reissue)..... 11,723
Match, E. G. Boby..... 622,109
Match machine, W. H. Wussow..... 621,886
Measuring apparatus, automatic water, L. Jonker..... 621,820
Methane burner, Moor & Marbach..... 621,938
Metal bending machine, J. Nall..... 622,189
Meter, See Gas meter.
Mill, See Windmill.
Mould, See Water tank mould.
Moulding machine, A. Dickey..... 621,801
Money order blank protector, cutter, and hand rest, G. Johnson..... 622,153
Monkey wrench, J. Stynberg..... 621,859
Motor, See Mechanical motor.

(Continued on page 224)