

RECENTLY PATENTED INVENTIONS. Engineering.

Mr. David J. Lupton, of Jerusalem, O., has patented an improved car platform, which is pivoted to the top of the car coupler...

The same inventor has patented a combined car and air brake coupling that couples upon contact and that can be uncoupled from the platform of a passenger car...

Mechanical.

Mr. Marcus W. Chamberlain, of Hackensack, N. J., has patented a machine for expanding can covers and other similar articles.

Improved mechanism for the excavation of gravel or soil, and for its disintegration by movable jets of water controlled from the surface...

Mr. Austin J. Hanks, of Wilmington, O., has patented a machine for forming steel felloes for vehicle wheels.

The same inventor has patented a vehicle wheel of the class of wheels known as "suspension wheel."

Mr. Thomas C. Conrad, of Philadelphia, Pa., has patented a toy engine, which is provided with parts resembling those of a reciprocating engine.

An improvement in breech-loading fire arms, which relates especially to that class of arms known as "hammerless," has been patented by Mr. James T. Walsh, of Red Fork, Ark.

An improvement in machines for shelling peas has been patented by Mr. Giuseppe Paci, of New York City.

An improved nutmeg grater designed to operate upon a number of nutmegs at the same time has been patented by Mr. Joseph E. Giroux, of Alpena, Mich.

An improved game counter adapted for keeping the tally of points and games in the playing of billiards and like games has been patented by Mr. William B. Atkinson, of Franklin, Ky.

Electrical.

Mr. Willis Eugene Robinson, of Fairbault, Minn., has patented an improved telephone call register, which consists in the combination with a train of spring-actuated gearing provided with a stop-motion of an electro-magnetic releaser for starting the train...

An automatic regulator for dynamo-electric machines, in which the current delivered by the machine is made to shift the commutator cylinder on the armature shaft, and thus vary the output of the machine, has been patented by Mr. Perley P. Belt, of Fredonia, Kan.

by a belt with an electric motor in the main circuit of the dynamo, a spring connected with the armature shaft and commutator-supporting sleeve, and arranged to hold the commutator cylinder forward to the point of maximum output...

Agricultural.

Mr. George W. Haupt, of Germantown, O., has patented an improvement in hand planters especially adapted for setting out tobacco, cabbage, and similar plants.

An improved baling press has been patented by Mr. George Ertel, of Quincy, Ill. This is an improvement on the press for which letters patent No. 336,305 were granted to the same inventor February 16, 1886...

Miscellaneous.

Mr. James J. Ryan, of Brooklyn, N. Y., has patented a salve, which is intended as a remedy for piles. The composition consists of bloodroot, Armenian bole, resin, lard, and Stockholm tar...

An improvement in mattresses patented by Harriette J. Webb, of Lockport, N. Y., has for its object to so construct a mattress that a section thereof may be entirely removed and an opening thereby created for the reception of a bed pan or similar article...

Mr. Has Brouck Alliger, of Rondout, N. Y., has patented an improved can opener, which is so constructed that when the cutting blade is passed through a portion of the can to be opened, it may be made to assume an inclined position...

SCIENTIFIC AMERICAN BUILDING EDITION. AUGUST NUMBER.—(No. 58.) TABLE OF CONTENTS.

- 1. Elegant plate in colors showing perspective and floor plans of an attractive little cottage recently erected at a cost of only \$900 at Sunapee, N. H., from plans by Munn & Co., architects, New York. Sheet of details, etc.

The Scientific American Architects and Builders Edition is issued monthly. \$2.50 a year. Single copies, 25 cents. Forty large quarto pages, equal to about two hundred ordinary book pages...

The Fullness, Richness, Cheapness, and Convenience of this work have won for it the LARGEST CIRCULATION of any Architectural publication in the world.

MUNN & CO., PUBLISHERS, 361 Broadway, New York.

Business and Personal.

The charge for insertion under this head is One Dollar a line for each insertion; about eight words to a line. Advertisements must be received at publication office as early as Thursday morning to appear in next issue.

For Sale—New and second hand iron-working machinery. Prompt delivery. W. P. Davis, Rochester, N. Y.

Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. For best hoisting engine. J. S. Mundy, Newark, N. J.

Belting.—A good lot of second hand belting for sale cheap. Samuel Roberts, 389 Pearl St., New York.

Billings' Patent Adjustable Four and Six Inch Pocket Wrenches. Billings & Spencer Co., Hartford, Conn.

Best Ice and Refrigerating Machines made by David Boyle, Chicago, Ill. 155 machines in satisfactory use.

Power presses and dies. Also contractors for special machinery. T. R. & W. J. Baxendale, Rochester, N. Y.

Safety Elevators, steam and belt power; quick and smooth. The D. Frisbie Co., 112 Liberty St., New York.

"How to Keep Boilers Clean." Send your address for free 96 p. book. Jas. C. Hotchkiss, 120 Liberty St., N. Y.

Screw machines, milling machines, and drill presses. The Garvin Mach. Co., Light and Canal Sts., New York.

Wanted—A good second-hand 10" hot air Rider pumping engine. Address Rogers & Ordway, 180 East Fourth Street, St. Paul, Minn.

Wanted—Good, live mechanic to inspect and direct work on bicycles in Western city. Address, with references, F. D., box 773 New York City.

For Sale—10 H. P. Otto gas engine, good as new, cheap. Cash or time. With or without shafting and pulleys. A. W. Gump, Dayton, Ohio.

Split Pulleys at low prices, and of same strength and appearance as Whole Pulleys. Yocom & Son's Shafting Works, Drinker St., Philadelphia, Pa.

The Holly Manufacturing Co., of Lockport, N. Y., will send a book of official reports of duty trials of their high duty pumping engines on application.

Guild & Garrison, Brooklyn, N. Y., manufacture steam pumps, vacuum pumps, vacuum apparatus, air pumps, acid blowers, filter press pumps, etc.

For low prices on Iron Pipe, Valves, Gates, Fittings, Iron and Brass Castings, and Plumbers' Supplies, write A. & W. S. Carr Co., 138 and 140 Centre St., New York.

For the original Bogardus Universal Eccentric Mill, Foot and Power Presses, Drills, Shears, etc., address J. S. & G. F. Simpson, 25 to 35 Rodney St., Brooklyn, N. Y.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4; Munn & Co., publishers, 361 Broadway, N. Y.

West's lightning rods, 40 Cortlandt St., N. Y., lately saved the Bluff Point Hotel and T. R. McNeill's house. Never fails. Edison, Westinghouse, and others endorse them.

A business man, who has traveled extensively, desires a manufacturers' agency, or to assist in introducing some meritorious invention, goods, or machinery of a nature that will be universally salable. References. Address W. Y., Grove Hall, New Haven, Conn.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application.

TO INVENTORS.

An experience of forty 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 Granted

July 29, 1890,

AND EACH BEARING THAT DATE.

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

- Abdominal supporter, H. E. Rogers..... 433,870
Advertising device, C. Van Graasfeland..... 433,222
Aging wine, G. H. Malter..... 433,131
Air, apparatus for oxygenating and carbureting, C. Fiesse..... 433,336
Air brake, T. J. Hogan..... 433,127
Air brake, E. F. Roberts..... 433,040
Alarm. See Burglar alarm.
Album clasp, J. C. Koch..... 433,007
Animal catching and holding device, G. S. Long..... 433,356
Animal trap, H. E. Kelley..... 433,245
Animal trap, A. T. Sullivan..... 433,377
Armature coil guards, blank for, W. S. Belding..... 433,392
Armature for dynamos, etc., W. S. Belding..... 433,391
Axle lubricator, H. M. Goodman..... 433,404
Axle, vehicle, L. S. Brown..... 433,432
Bag holder, C. W. Allen..... 432,966
Bag holder, H. D. Woodbridge..... 433,114
Bag stapling machine, R. H. Little..... 433,247
Baling press, G. Ertel..... 433,278
Barley cleaning machine, R. A. Baumgartner..... 433,160
Baseball mask, B. L. Blair..... 432,970
Basin, catch, F. Niesen..... 433,184
Battery. See Galvanic battery.
Battery separator, secondary, W. P. Kookogey..... 433,174
Bearing, end thrust, O. B. Peck..... 433,143
Bed clothes holder, adjustable, T. Wicks..... 433,312
Bicycle, J. Jett..... 433,172
Binder for official documents, J. F. Fitzgerald..... 433,337
Blind stop, A. Fugsley..... 433,408
Blind stop, A. Volk..... 433,068
Block. See Fuse block.
Boat. See Metal boat.

- Boiler. See Steam boiler.
Bolt extractor, C. C. Warren..... 433,380
Bolt threading machine, L. T. Bowman..... 432,972
Book and index, combined, A. J. Newbury..... 433,208
Book and index, combined, R. R. Vernon..... 433,259
Book, abstract, W. A. Madison..... 433,248
Book case, E. Hoyt, Jr..... 433,345
Book, cash, W. A. Madison..... 433,248
Books, machine for manufacturing backs for blank, Donnell & Mills..... 433,285
Boot or shoe nailing machine, W. S. Fitzgerald..... 433,231
Bottle cap, mustard, G. Norton..... 433,209
Braid, machine for the manufacture of plaited, A. M. English..... 433,075
Brake. See Air brake. Car brake. Locomotive brake. Railway brake.
Brick kiln, W. Renne..... 433,368
Bridge, draw, G. H. Crafts..... 433,328
Bridge gate, C. Madsen..... 433,208
Brush-scraper, muclage, W. C. Phelps..... 433,080
Buckle, J. Hirschfeld..... 433,005
Bung and bushing, vent, J. Meyer..... 433,015
Burglar alarm and door fastener, combined, C. K. Donnell..... 432,987
Burnishing machine, C. J. Addy..... 433,387
Button, L. J. Maxey..... 433,087
Cable grip, E. R. Guerra..... 433,123
Cake cutter, W. Zeigler..... 433,431
Cake or baking pan, G. N. Foster..... 433,236
Callipers, E. V. Faucett..... 433,199
Camera, E. R. Bullard..... 433,070
Can. See Oil can.
Can covers, machine for expanding, M. W. Chamberlain..... 433,271
Can opener, H. Alliger..... 433,263
Can opener, G. T. Ware..... 433,379
Car and air brake coupling, combined, D. J. Lupton..... 433,298
Car brake, E. F. Roberts..... 433,059
Car brake mechanism, railway, J. E. Loughbridge..... 433,294
Car coupling, D. Bowles..... 432,971
Car coupling, H. Sommerfeld..... 433,374
Car coupling, G. W. Murr..... 433,357
Car coupling, W. Portlock..... 433,305
Car coupling, C. Schleicher..... 433,043
Car coupling, J. Shaaber..... 433,309
Car coupling, W. V. Wray..... 433,385
Car coupling tool, J. H. Garner..... 433,282
Car door, E. L. Phipps..... 433,212
Car door cleat, F. B. Geoghegan..... 433,403
Car, dumping, G. W. Dickinson..... 433,073
Car platform, D. J. Lupton..... 433,293
Car seat lock, H. S. Hale..... 433,163
Cars, reversing gear for electric, T. M. Foote..... 433,402
Cars, variable speed gearing for electric, T. M. Foote..... 433,401
Cards or sheets, supporting device for advertising and other, Bond & Goldsmith..... 433,200
Carrier. See Egg carrier. Package carrier. Trace carrier.
Cart, road, G. W. Irish..... 433,171
Cart, road, L. H. Zeigler..... 433,386
Case. See Book case.
Casket lowering device, C. E. Windom..... 433,113
Cements, manufacturing composition of refractory, W. S. Lea..... 433,129
Centrifugal extractor, W. T. Forbes..... 433,399
Chair back, detachable, J. H. Haulenbeek..... 433,125
Chart, dress skirt, E. M. Huot..... 433,203
Cheese and creamery vat, D. H. Burrell..... 433,197
Chimney tube, fireproof, J. Schindler..... 433,042
Churn, Bloom & Atherton..... 433,194
Churn, C. M. Worthingham..... 433,069
Cigar bunching machine, A. H. Shook..... 433,102
Cigarette holder, E. D. Ewen..... 433,335
Clatern cleaning machine, O. I. Searles et al..... 433,099
Clasp. See Album clasp. Fabric clasp.
Clasp for boxes, etc., T. M. Haas..... 433,240
Cleaner. See Flue cleaner.
Clock, musical, J. Sprangers..... 433,220
Coat and hat hook, A. W. Parmelee..... 433,182
Coin controlled apparatus, T. H. Costello..... 432,963
Cold storage house, A. W. Black..... 433,316
Collar attachment and protector, horse, H. Le-rew..... 433,010
Comb. See Curry comb.
Compound engine, F. W. Dean..... 433,164
Commutator for dynamos, W. S. Belding..... 433,393
Concrete body, D. J. Marston..... 433,014
Cooker, steam, Eisworth & Faber du Faur..... 433,399
Coping stone, J. Schwartz..... 433,219
Copper, deoxidizing, W. W. Keys..... 433,096
Copy holder, L. Dawson..... 432,985
Corn, machine for cutting and carrying, P. F. Fleming..... 433,121
Corset, shoulder brace, F. Reast..... 433,095
Coupling. See Car coupling. Car and air brake coupling. Flexible coupling. Thill coupling.
Coupling device, magnetic, T. M. Foote..... 433,400
Cranberry picker, D. Lumbert..... 433,177 to 433,179
Crane, traveling, W. Wood..... 433,156 to 433,158
Crate, J. L. Ritter..... 433,389
Cultivator, F. E. Montgomery..... 433,018
Cup. See Dope cup. Oil cup.
Curtain fixture, E. F. Tubach..... 433,057
Curry comb, A. Kline..... 433,008
Cut-out, safety, C. E. Scribner..... 433,045
Cut-out, safety, M. S. Shapleigh..... 433,187
Cut-out, thermal, A. Bernstein..... 433,229
Cutlery handle, Eggleston & La Fave..... 432,991
Cutlery handle, table, W. T. Decker..... 433,276
Cutter. See Cake cutter. Meat cutter. Sod cutter.
Cutter head, F. A. Requarth et al..... 433,085
Cutting tool and handle, S. P. Graham..... 433,078
Dental vulcanizer, J. E. Quinn..... 433,188
Die. See Screw cutting die.
Digger. See Potato digger.
Door hanger, W. J. Lane..... 433,009
Door, metallic, W. R. Sterling..... 433,376
Dope cup, J. Robinson..... 433,149
Drawing and shading pictures, D. Fausel..... 432,994
Drill. See Grain drill.
Drying apparatus, Proctor & Knowles..... 433,094
Dye, blue, C. Duisberg..... 432,989
Dyeing machine, yarn, D. Dunn..... 433,398
Egg carrier, M. J. Benjamin..... 433,228
Egg carrier, F. Benoit..... 433,161
Electric cut-out, H. A. Chase..... 432,978, 432,979
Electric light fixture, F. H. Aldrich..... 432,965
Electric machine, dynamo, H. W. Spang..... 433,051
Electric machine regulator, dynamo, P. P. Belt..... 433,269
Electric switch, J. F. McLaughlin..... 433,360
Electric switch and cut-off, automatic, C. B. Doyle..... 432,988
Electric wires, poles for supporting, L. Atwood..... 433,266
Electrical machines, brush holder for, W. S. Belding..... 433,390
Electrical transportation, system of, A. L. Par-celle..... 433,181
Electro-magnetic cut-out, B. J. Noyes..... 433,022
Electro-magnetic transmitter, J. T. Williams..... 433,381
Electro-motor traction wheel, A. L. Parcellle..... 433,180