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 the following week's issue.

Marine Iron Works. Chicago. Catalogue free.

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

"U. S." metal polish. Indianapolis. Samplesfree.

Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J.

Handle & Spoke Mchy. Ober Lathe Co., Chagrin Falls, O.

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

Emerson, Smith & Co., Ltd., Beaver Falls, Pa., will send Sawyer's Hand Book on Circulars and Band Saws free to any address.

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.

For the original Bogardus Universal Eccentric Mill, Foot and Power Presses, Drills, Shears, etc., address J.S. & G. F. Simpson, 28 to 36 Rodney St., Brooklyn, N. Y.

Whereas, the copartnership heretofore existing in the City and State of New York between Orson D. Munn and Alfred E Beach, under the copartnership name of Munn & Co., and having its principal place of business at No. 361 Broadway, in the City and State of New York, has been dissolved by the death of Alfred E. Beach on January 1, 1896; and

Whereas, the said copartnership had business relations with foreign countries and transacted business in the State of New York for a period of five years and upward; and

Whereas, I, Orson D. Munn, the surviving copartner, am desirous to continue the business conducted by the said copartnership and to continue the use of the name of Munn & Co.

Now, I, Orson D. Munn, do hereby certify and declare that I am the person dealing under such name of Munn & Co., and that my place of abode is 14 East Twenty-second Street, City of New York, and that my principal place of business is at No. 361 Broadway, in the City and State of New York.

(Signed) ORSON D. MUNN. [L.S.]

In presence of
A. A. HOPKINS.

City and County of New York, ss:

On this 6th day of January, in the year 1896, before me personally came Orson D. Munn, to me known to be the individual described in and who executed the foregoing instrument and acknowledged to me that he executed the same for the purposes therein mentioned.

(Signed) A. A. HOPKINS,
[L.S.] Notary Public,
Kings County, New York.

Certificate filed in New York County.

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

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.

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.

(6699) T. J. H. says: Would you have the kindness to give me the formula for making Pharaoh's serpents' eggs? A. 1. These are little cones of sulphocyanide of mercury which, when lighted, give forth a long, serpent-like, yellowish brown body. Prepare nitrate of mercury by dissolving mercury dioxide in strong nitric acid as long as it is taken up. Prepare also sulphocyanide of ammonium by mixing 1 volume sulphide of carbon, 4 strong solution of ammonia, and 4 alcohol. This mixture is to be frequently shaken. In the course of about two hours, the bisulphide will have been dissolved, forming a deep red sulution. Boil this until the red color disappears and the solution becomes of a light yellow color. This is to be evaporated at about 80° F., until it crystallizes. Add little by little the sulphocyanide to the mercury solution. The sulphocyanide of mercury will precipitate; the supernatant liquid may be poured off, and the mass made into cones of about ½ in. in height. The powder of the sulphocyanide is very irritating to the air passages, and the vapor from the burning cones should be avoided by the experimenter as much as possible. To ignite them set them on a plate or the like, and light them at the apex of the cone. 2. Harmless Pharaoh's Serpents.—A new method of making the curious chemical toys called Pharaoh's serpents has been suggested by Vorbringer. The black liquor which results as a useless product when coal oil is purified with sulphuric acid is to be treated with fuming nitric acid. The dark colored resinous matter which swims on the surface is then collected, washed and dried, when it forms a yellowish brown mass having about the consistency of sulphur which has been melted and poured into water. When this mass is ignited it undergoes such a wonderful increase in bulk that a cylinder 1 in. long will give a snake about 4 ft. in length.

TO INVENTORS.

An experience of nearly 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 unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 361 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

January 7, 1896,

AND EACH BEARING THAT DATE.

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

Advertising cigar cutter, G. W. Melville 552,645
Advertising device, J. Butson 552,605
Advertising device, revolving, Rupert & Frazier 552,700
Advertising device, stereopticon, E. Hudson 552,663
Air compressor, L. M. Shaw 552,590
Alarm. See Electric alarm.
Automatic switch, G. A. Schmittuz 552,622
Awning, J. S. Sanders 552,781
Axle lubricator, Whisman & Gerding 552,564
Bail handle, W. F. Greene 552,758
Bale ties, machine for manufacturing, A. Henley 552,837
Band cutter and feeder, A. E. Price 552,620
Band cutter and feeder, J. E. Sponseller 552,591
Bath. See Shower or needle bath.
Beams, machine for cutting off I-, G. H. Sheldon 552,784
Bean picker and cleaner, G. F. Crippen 552,748
Bearing, roller, I. Ellison 552,752
Bed, invalid, E. C. & T. D. Souney 552,672
Bedstead, metal, E. T. McKaig 552,770
Berth step, A. E. Crow 552,825
Beverage, peptonized milk, A. Bernstein 552,681
Bicycle mud guard, Williams & Caywood 552,567
Binder self, J. F. Appleby 552,503
Blind fixer, rolling, F. Zahn 552,603
Blind hanger, Venetian, G. K. Monroe 552,871
Blind slat journal, E. F. Newell 552,541
Block. See Breech block.
Boat, R. S. Peabody 552,618
Boiler. See Sectional boiler. See Steam boiler.
Boiler compound or solvent distributer, H. M. Bolin 552,863
Bookbinding machine table, T. A. Briggs 552,630
Bookcase, H. J. Hoffman 552,579
Book or shipping receipt, duplicating sales, L. S. Lang 552,765
Bottle stopper attachment, ink, G. R. Weed 552,859
Bowling alley, W. H. Wiggins 552,801
Box machine, O. A. Sanford 552,782
Brace. See Sweep brace.
Bracket, adjustable end supporting, H. D. Jones 552,530
Brake. Car brake. Wagon brake.
Brake rod, Cook & Scott 552,824
Breech block, screw threaded, A. Welin 552,561
Brickwork, expansion joint for, S. G. Smith 552,787
Bridge gate, draw, W. R. Brehmer 552,511
Burner. See Gas lighting burner. Hydrocarbon burner. Oil burner.
Button attaching machine, W. E. Elliott 552,869
Button, collar, J. A. Trendel 552,626
Calipers, micrometer, A. B. Brown 552,659
Camera, magazine, F. Whitney 552,654
Camera, magazine, A. E. Younger 552,570
Camera, roll holding, W. V. Esmond 552,633
Car, J. F. Stevenson 552,701
Car and vestibule, sleeping, J. L. Bixby, Jr 552,682
Car brake, L. S. Fish 552,609
Car brake, railway, J. W. Valiant 552,599
Car, combined day and sleeping, J. L. Bixby, Jr 552,629
Car coupling, W. R. Fine 552,608
Car coupling, W. H. Hatfield 552,836
Car coupling, H. W. Kneffelman 552,642
Car door, Coder & Ruffhead 552,821
Car, dumping, Thomas & Melhado 552,595
Car fender, Morrow & Robertson 552,852
Car fender, M. Sparmo 552,789
Car fender, W. P. Young 552,655
Car guard or fender, J. Gibbons 552,639
Car mover, H. L. Marlett 552,537
Car, ore, W. C. Davis 552,750
Car, platform dumping, S. Webber 552,799
Cars, storm front and lookout window for, J. Hartman 552,662
Carbonating apparatus, J. Ormerod 552,543
Cart, ash, H. Scheller 552,589
Cart, snow and dirt, J. R. Hawkins 552,876
Case. See Bookcase.
Cash register, indicator, recorder, and check printer, Thompson & Morton 552,554
Caster, W. H. Tucker 552,598
Chair. See Typewriter's chair.
Chair seat, H. W. Johnson 552,840
Chest protector, O. Riess 552,670
Chimney top, W. Eigel 552,828
Chocolate dipper, C. Gousset 552,833
Clamp. See Fence wire clamp. Stone clamp.
Cleaner. See Dish cleaner. Grain cleaner. Track cleaner.
Cock attachment, angle, E. B. Stoner 552,793
Cock, self-closing safety gas, J. Clark 552,704
Cock, sirup fountain, C. H. Duffield 552,518, 552,632
Coin-freed apparatus, G. Hirschfeld 552,529
Collar, J. K. P. Pine 552,619
Conveyer, endless chain, C. W. Hunt 552,664
Corn husking machine, Campbell & Woodring 552,806
Cot, folding, H. C. Rogers 552,586
Coupling. See Car coupling. Pump coupling. Shaft coupling.
Cream separator disks, holder for use in cleaning, W. J. Bush 552,817
Cultivator, D. Brisky 552,684
Cultivator, J. H. Brown 552,743
Cultivator, E. F. Louys 552,714
Curtain fixture, J. W. Lang 552,870
Curtain pole ring, F. Druckhammer 552,607
Cutter. See Advertising cigar cutter. Band cutter. Potato cutter. Wire or rod cutter.
Cutter head and jewel burnisher, adjustable, L. N. Jackman 552,687
Cyclometer, F. M. Carroll 552,819
Dental disk carrier, W. M. Speakman 552,625
Dental disk holder, R. M. Chivers 552,514
Dental handpiece, J. T. Pedersen 552,669
Dental matrix, C. J. Peterson 552,697
Dental mouth mirror support, O. P. Myers 552,693
Desk, roll top, A. L. Lofstrom 552,816
Dish cleaner, F. Rowley 552,598
Distilling apparatus, I. H. Jewell 552,689
Distilling apparatus, water, E. C. Hargrave 552,835
Door, E. A. Hill 552,578
Door, swinging and sliding, E. Muchmore 552,879
Dredging machine, F. B. Barrows 552,810
Dyeing, etc., apparatus for, L. Frotscher 552,638
Eccentric, W. N. Reazor 552,547
Electric alarm, automatic, T. J. Stansel 552,733
Electric alarm, automatic, G. B. Williams 552,803
Electric circuit controller, H. A. Gorn 552,756
Electric cut-out and insulator, Wagner & Schwedtmann 552,680
Electric meter, McGrath & Oram 552,540
Electric motor, S. D. Field 552,521
Electric motor, G. L. Thomas 552,858
Electric switch, S. Bergmann 552,574
Electrical circuits, apparatus for protecting, J. M. Oram 552,542
Elevator. See Water elevator.
Elevator, T. Van Kannel 552,651
Elevator controlling device, C. A. Harkness (r) 11,520
Elevator mechanism, hydraulic, J. T. Wilkin 552,585
Elevator shaft doors, locking means for, T. Van Kannel 552,652
Engine. See Hydrocarbon engine. Oil engine. Oscillating piston engine. Rotary engine.
Evaporator, J. W. Mote 552,667
Excavating machinery, D. I. Calhoun 552,575
Excavator, J. Kewley 552,580
Extension table, W. G. Boughton 552,510
Extractor. See Hydro extractor.
Fan, car, C. A. Evans 552,660
Fares on railways, device for insuring collection of, G. L. Lukens 552,878
Faucet attachment for drawing beer, etc., W. W. Newhall 552,771
Feed chopping apparatus, E. B. Case 552,820
Feeder and band cutter, combined, M. C. Law 552,615
Fence, D. Messick 552,616
Fence or arbor post, R. S. Woolfolk 552,568
Fence, wire and picket, F. A. Weigbt 552,558
Fence wire clamp, E. E. Dehler 552,827
Fence wire stretcher, H. Robinson 552,779
Firearm discharging mechanism, W. A. Richardson 552,699
Firearm, magazine, J. M. Browning 552,864
Fire escape, I. Knapke 552,531
Fire extinguisher, chemical, E. F. Steck 552,880
Fireproof partition for buildings, A. McCartney 552,539
Flues, movable support for expansion, S. A. Griggs 552,525
Fluid motor, J. Schade 552,872
Flush tank apparatus, S. W. Lewis 552,535
Fly paper, sticky, W. C. Jerome 552,762
Fly paper, sticky, O. G. Stolz 552,792
Fuse and switch box, junction, W. F. Bossert 552,658
Gage. See Pressure gage.
Game board, P. S. McGee 552,694
Game board, P. G. Smith 552,786
Gas heater or furnace, J. W. Baker 552,504
Gas lighting burner, electric, J. E. Swendeman 552,594
Gas making apparatus, cupola, J. M. Rose 552,587
Gate. See Bridge gate.
Gate, O. M. Blood 552,683
Gate, E. Kaiser 552,764
Gate, O. Larson 552,680
Gearing, variable, D. M. Scheffer 552,551
Generator. See Hot water generator.
Glass, method of and apparatus for testing, W. Hoskins 552,641
Glue, testing tenacity of, G. Seeligmann 552,731
Grain cleaner, C. J. Mober 552,769
Grain separating machine, L. W. Stevens 552,674
Guard, G. F. Fisher 552,610
Gun breech mechanism, A. Welin 552,560
Hammer, bush, G. Main ..... 552,848 to 552,850
Handle. See Bail handle.
Hanger. See Blind hanger.
Harness, fire engine, T. Murphy 552,668
Harrow and seeder, E. J. Colby 552,822
Harvester, J. H. Elward 552,520
Harvester truck wheel attachment, L. Miller 552,666
Head protector, J. L. Weber 552,557
Heater. See Gas heater.
Heating system, J. C. Febiger, Jr 552,753
Hide unhairing and working machine, A. E. Whitney 552,628
Hinge, spring, F. Brucker 552,815
Hoisting and dumping apparatus, C. L. Carman 552,513
Hook. See Lacing hook. Ladder hook. Snap book.
Hook and eye, M. Shearer 552,783
Horse detacher, L. R. Hertert 552,706
Horses, device for stopping runaway, W. Crawford 552,747
Horseshoe calk forming machine, Steiner & Babbitt 552,592
Hot water generator, A. J. Pulver 552,698
House, portable, C. H. Leonard 552,533
Hub, self-lubricating vehicle, G. & P. Blechschmidt 552,702
Hub, wheel, M. Wysong 552,569
Hydraulic shears, E. A. W. Jefferies 552,710
Hydro extractor, O. W. Schaum 552,550
Hydrocarbon burner, A. J. Huber 552,709
Hydrocarbon engine, W. D. & S. Priestman 552,718
Indicator. See Station indicator.
Inhaler, Anderson & Wagenhals 552,656
Inhaler, T. B. & H. Wilcox 552,600
Insect destroyer, E. T. Burrowes 552,703
Insect trap, H. W. Matthews 552,644
Journal bearing or brass, W. B. Lewis 552,767
Journal box guard, F. J. Roberts 552,549
Kitchen cabinet, G. A. Fischer 552,522
Knitting machine and knit fabric, C. Older 552,583
Knitting machine, automatic, L. N. D. Williams 552,804
Knitting machine, automatic, Williams & Swingleburst 552,806
Knitting machine needle cylinder, L. N. D. Williams 552,805
Knitting machine transferring attachment, H. E. Harbaugh 552,528
Lacing hook or stud, E. Kempshall 552,841
Ladder hook, extension, L. Ferguson 552,636
Lamp, electric arc, W. S. Bartholomew 552,874
Land roller, L. E. Stump 552,794
Lasting machine, E. F. Grandy 552,834
Leather graining and softening machine, M. M. Scott 552,857
Leather working machine, R. Steyer 552,791
Line casting machine, J. C. Fowler 552,830
Loading and weighing device, cotton, H. E. Paolucci 552,617
Lock. See Sash lock.
Lock case, T. Donahue 552,868
Locomotive bell ringer, T. W. Heintzelman 552,760
Lomotive fire box, F. D. Shepherd 552,671
Loom picker motion, L. C. Werner 552,562
Loom relief motion, L. C. Werner 552,563
Loom shuttle box operating mechanism, A. Scheid 552,720
Lubricator. See Axle lubricator.
Lubricator, F. A. Mitchell 552,851
Lumber roller bed and measurer, B. S. Snell 552,788
Mail crane, E. L. Peirce 552,773
Mail discharging apparatus, H. L. Hewitt 552,577
Match safe, J. W. Tully 552,650
Mechanical movement, H. E. Harbaugh 552,527
Metal for stamping or drawing-in dies, preparing, H. K. Jones 552,763
Metal wheel, hollow, W. B. Roberts 552,719
Metals from their ores, method of and apparatus for extracting, H. G. Williams 552,807
Meter. See Electric meter.
Mining apparatus, placer, R. C. Roach 552,856
Mop head, R. V. V. Sutherland 552,649
Motor. See Electric motor. Fluid motor.
Mowing and reaping machine, cutting apparatus for, L. Miller 552,665
Musical instrument, S. Blacketer 552,862
Musical instrument, mechanical, Tremaine & Pain 552,796
Musical instrument or toy, resonant, W. H. Frost 552,612
Necktie, P. Camillo 552,818
Oar lock, A. Stevenson 552,673
Oil burner, crude, T. J. Brough 552,813
Oilcloth, etc., cutter, Lewis & Kochendarfer 552,845
Oil cup, F. D. Winkley 552,737
Oil engine, petroleum, J. Carter et al 552,686
Oil separator, E. Austin 552,572
Ore concentrator, H. R. Ellis 552,519
Ores, lead bath apparatus for working, A. M. Shields 552,624
Oscillating piston engine, B. H. Trucks 552,798
Oven, rotary, G. Huebner 552,838
Oyster tongs, F. Paschen 552,772
Package elevating and distributing apparatus, F. O. Matthiessen 552,716
Paint, rust preventive, A. Buecher 552,744
Paper pulp screening machine, W. Curtis 552,749
Pen, fountain, C. F. Veit 552,679
Pen holder, A. Grollmann 552,640
Percussion screen, P. F. Poorbaugh 552,585
Phase completing device, J. T. Sibley 552,553
Photographic plate holder, Levy & Bell 552,766
Picker. See Bean picker.
Pipe. See Tobacco pipe.
Planter sight feed, J. D. Schofield 552,552
Planting attachment, H. L. Cooke 552,515
Plow stock, J. F. Peele 552,545
Plow, sulky, C. Anderson 552,571
Polishing material and making same, M. M. Kann 552,712
Post. See Fence or arbor post.
Potato cutter, A. J. Wood 552,808
Potato sorter and cleaner, J. A. Mitchell 552,538
Pressure gage, E. A. Uehling 552,678
Pressure gage, T. W. Welsh 552,653
Printing press gripper, J. Watson 552,627
Printing press roller adjustment, P. Splithoff 552,790
Propelling mechanism, R. H. Crosby 552,576
Propulsion, marine, A. Holm 552,613
Pump coupling, oil well, J. M. Ralston 552,621
Puzzle, T. F. Schofield 552,721
Radiator and stovepipe shelf, combined, G. Laube 552,844
Radiator, steam, M. Jaennigen 552,643
Rail joint, R. H. Pierce 552,775
Rails of tramways, etc., automatic cleaner for, A. Flabaux 552,637
Railway, pleasure, I. W. Moore 552,692
Railway system, electric, H. Brandenburg 552,604
Railway tie plate, L. A. Bower 552,875
Railway water chute, inclined, D. Lenox 552,713
Railways, conduit system for electric, C. A. Gaines 552,755
Refrigerator, J. F. H. Gronwald 563,526
Register. See Cash register.
Ring. See Curtain pole ring.
Rock drilling machine, Van Horn & Hayes 525,556
Roller. See Land roller.
Rotary engine, O. E. Morse 552,854
Rotary engine, F. A. Small 552,646
Safe, portable, R. C. Davis 552,517
Sap spout, J. B. Sessions 552,623
Sash balance, roller, R. B. Hunnunin 552,761
Sash fastener, P. Fleming 552,611
Sash lock, window, P. S. Riddelle 552,777
Sash, revolving window, P. S. Riddelle 552,778
Saw, grooving, C. Baar 552,573
Saw set, F. W. Brown 552,814
Sawing machine, wood, C. V. Barker 552,505
Scale, computing, J. W. Culmer 552,826
Scale, computing beam, H. E Swift 552,676
Screen. See Percussion screen.
Screw machine, C. E. Roberts 552,548
Seal, J. E. Williams 552,566
Sealing device, bottle, R. Brass 552,742
Sectional boiler, J. H. Bacon 552,861
Sediment or sand trap, G. Ipson 552,877
Separator. See Oil separator.
Sewage system, B. O. Tilden 552,677
Sewing machine, Bolton & Rontke 552,509
Sewing machine, G. W. Weiss 552,559
Sewing machine stand, J. Bolton 552,508
Sewing machine table, J. Bolton 552,507
Sewing machine work feeding attachment, W. S. Mills 552,691
Shaft coupling, F. M. Leavitt 552,532
Sharpener, drill, Larson & Carlson 552,843
Shears. See Hydraulic shears.
Shirt sleeve, etc., W. F. Williams 552,601
Shoe upper, laced, W. T. Benjamin 552,506
Shower or needle bath, W. R. Humphrey 552,839
Sign shifter, A. White 552,860
Signal boxes, local alarm door for, F. W. Cole 552,746
Signaling, electric, F. G. Pratt 552,776
Slate, school, F. A. Ouvrard 552,584
Smoke consuming device, G. W. Lord 552,847
Snap hook, J. T. Malley 552,695
Soldering tin cans apparatus for, O. Asche 552,809
Spoon attachment, A. E. Rood 552,780
Spring jack switch, C. E. Scribner 552,728
Stamp or die, marking, W. Wells 552,800
Stamp, time, C. Stahlberg 552,647
Station indicator, G. Tresenreuter 552,797
Steam boiler, M. S. Foote 552,754
Steam boiler, C. Starke 552,648
Steam purifier and separator, J. S. Stephens 552,593
Steam raising apparatus, C. Bourdon 552,741
Steel, hardening cast, W. T. Reaser 552,546
Stone clamp, M. J. Hawley 552,759
Strictures by electrolysis, instrument for treatment of, J. A. Fort 552,832
Surveying instrument, L. B. Denison 552,751
Sweep brace, heel, Ferrell & Hamrick 552,829
Switchboard multiple, C. E. Scribner 552,728
Table. See Extension table.
Tea or coffee pot, saucepan, etc., M. Bair 552,739
Telegraph, printing, J. E. Woodbridge 552,738
Telephone, N. L. Burchell 552,816
Telephone apparatus, desk, G. W. Coy 552,867
Telephone circuit, C. E. Scribner 552,730
Telephone exchange switchboard system, C. E. Scribner 552,726
Telephone exchange trunk line, T. C. Wales, Jr 552,735
Telephone exchanges, multiple switchboard system for, C. E. Scribner 552,723 552,724
Telephone switch, G. W. Coy 552,516, 552,705, 552,866
Telephone switchboaad and circuit, Wales, Jr., & Spencer 552,734
Telephone switchboard annunciator, C. E. Scribner 552,727
Telephone switchboard spring jack, C. E. Scribner 552,725
Telephone system, F. R. Colvin 552,823
Telephone transmitter, I. J. Kusel 552,689
Telephony, F. R. Colvin 552,865
Testing machine, W. Sellers et al 552,873
Testing machine, M. H. Tomkins 552,597
Textile fabrics, apparatus for estimating, M. H. Tomkins 552,596
Tire volve fastening, Schrader & Kraft 522,722
Tobacco pipe, F. J. Kaldenberg 552,711
Tool, combination, Morse & Brundage 552,853
Toy, M. T. Gedney 552,881
Toy marble shooter, W. E. Everitt 552,634
Toy, mechanical, W. J. Wilcox 552,802
Track cleaner, J. H. Frank 552,661
Trap. See Insect trap. Sediment or sand trap.
Trolley, B. Dale 552,631
Trousers supporter, H. Shrier 552,785
Truck, hand, E. O'Neill 552,696
Truck pedestal, car, J. A. Markley 552,768
Turning machine, form, E. J. McClellan 552,717
Twisting tube for twisting fibrous material into threads, J. W. & J. G. Bedale 552,657
Typesetting machine, simultaneous, V. Calendoli 552,745
Typewriter's chair, H. L. Andrews 552,502
Typewriting machine, H. G. Perry 552,774
Umbrellas, etc., rib holder for, A. W. Leigh 552,581
Valve controlling device, J. F. Batchelor 552,811
Valve, piston, E. W. Naylor 552,582
Valve, plunger, J. G. Himler 552,707
Valves of baths, basins, etc., apparatus for controlling, H. W. Pearson 552,544
Vegetable cutting machine, W. H. Burgin 552,512
Vehicle for single rail elevated railways, motor, F. B. Behr 552,812
Vehicle, road, W. W. Grant 552,757
Vehicle steering connection, J. M. Fuller 552,524
Vending device, W. S. Freeman 552,533
Vending machine, coin-controlled, A. Wilson 552,602
Vessels, air and light port for marine, MacKenzie & Chambelain 552,536
Violin, E. A. Thompson 552,555
Voting machine, G. J. Sweeney 552,675
Voucher instrument for use between principal and agent, D. P. Fackler 552,635
Wagon brake, hay, J. Hofmann, Jr 552,708
Washing and wringing machine, combined, M. Killeen 552,842
Washing machine, H. W. Wichman 552,736
Watch movement box, Leukart & Owen 552,534
Watch, stop, H. A. Lugrin 552,715
Water elevator, S. F. Mouck 552,855
Weaner, calf, B. W. Bussell 552,685
Whist, apparatus for playing duplicate, L. C. Siavens, Jr 552,732
Wire or rod cutter, W. H. Flinn 552,831
Wood cutting machine, W. F. Hutchinson 552,614
Wrench, W. L. Bedford 552,740
Wrench, F. P. Thompson 552,795

TRADE MARKS.

Chemical substances and preparations which are coal derivatives, Gas Light and Coke Company 27,612
Cigars, G. W. Whitney 27,595
Cleaning, polishing, and feeding varnished wood and cleaning and polishing metals, mixture for, Nitid Varnish Feeder Company 27,613
Clothes wringers, American Wringer Company 27,605
Coffee, G. J. Wasbburn 27,596
Corset clasps and dress steels, A. Steinhardt & Brother 27,592
Corsets, E. Schweinburg 27,589, 27,590
Corsets, ladies', Michigan Corset Company 27,591
Ethyl nitrite, preparation of, F. W. Fletcher 27,616
Fertilizers, earth, A. N. Sheppey 27,615
Filters, T. Linke 27,604
Flour, rolled wheat, and cornmeal, pancake, H. R. Heath & Sons 27,611
Food for infants and invalids, S. F. Speir 27,598
Fuel, artificial, A. G. Jennings 27,614
Gas, illuminating, G. Tomkins 27,622
Gloves, F. Schmidt 27,609
Gloves for women and children, wool, silk, and cotton, Lord & Taylor 27,588
Hams, Fowler Brothers 27,597
Hooks and eyes, Singer Safety Hook and Eye Company 27,593, 27,594
Horseshoes, Shoenberger Steel Company 27,606
Lamps, bicycle, Hitchcock Lamp Company 27,627
Lumber, yellow pine, Simpson & Company 27,608
Medical vaporizers, R. E. Woodward 27,600
Paper and envelopes, Hurlbut Stationery Company 27,586
Plows, J. Wallace's Sons 27,607
Preparation, certain proprietary, Brandreth Company 27,620, 27,621
Radiators and boilers, Gurney Heater Maufacturing Company 27,628
Remedies for diphtheria and lung diseases, A. Plischke 27,617
Remedies for general prostration, coughs, colds, and similar troubles, Humphreys Homeopathic Medicine Company 27,599
Sewing machines and attachments, Abraham & Straus 27,629
Sheetings, L. Robeson 27,587
Soap powder, Diamond Dust Soap Powder Company 27,602
Tablets for coughs and colds, E. G. Lewis 27,619
Tonic, Prune-Manna Company 27,618
Toy cameras, Strauss, Sachs & Company 27,603
Washing compounds, fluid, J. A. Stewart 27,601
Water closets, L. M. Rumsey Manufacturing Company ..... 27,623 to 27,626
Waterproofed articles, waterproofing material, and apparatus for applying same, Publishing Advertising and Trading Syndicate 27,610

DESIGNS.

Badge C. G. Bradsbaw 25,037
Bicycle name plate, E. Read 25,043
Building block, G. H. Bodine 25,044
Carpet, A. M. Rose 25,046
Couch frame, box, J. Healy 25,040
Mirrors, etc., frame for, W. F. Malloy 25,039
Pictures, etc., frame for, L. Dorsam 25,038
Radiator, J. S. Yard 25,045
Toy rocker pattern, G. W. Korn 25,041
Toy sled pattern, G. W. Korn 25,042

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 25 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway New York.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list, provided they are simple, at a cost of $40 each. If complicated the cost will be a little more. For full instructions address Munn & Co., 361 Broadway, New York. Other foreign patents may also be obtained.

© 1896 SCIENTIFIC AMERICAN, INC.