I intend to use an exciting current of 8 volts, 1 ampere. A. In our SUPPLEMENT, No. 160, you will find described and illustrated an induction coil, but slightly larger than the one specified. The article is so full that we refer you to it for all details of induction coil making.

(6974) C. H. M. asks: What is the igniting temperature of turpentine in the presence of air? A. Turpentine boils at 321° Fah. (about). The vapor emitted would inflame at a red heat, say 1,500° Fah. upward. The oil itself would boil long before ignition, and the flames of burning turpentine may be considered as principally flames of burning vapor, not of burning liquid.

(6975) J. C. B. asks: If the two sprocket wheels of a bicycle are doubled in size (the cranks remaining the same), will it require less power to propel the wheel? A. Slightly better results may be looked for from sprockets of large diameter.

(6976) F. J. M. says: 1. What does a Chinese laundryman use for his shirts, collars, and cuffs to bring forth an elegant gloss? A. Laundrying of shirts. (Chinese method.) A rather thick starch paste is prepared by first beating up a handful of raw starch, usually corn starch, and a teaspoonful of fine rice flour with about a quart of water, making a liquid of creamlike consistence. A certain quantity (determined alone by personal experience) is poured into a quantity of boiling water, while the latter is violently stirred with a short wooden spatula. With this the portions of the linen to be dressed are well smeared, the linen moist from wringing and the starch quite hot. Thus smeared the pieces are laid aside for a few minutes, then rubbed well between the hands, so that the paste is well distributed in the fabric. The linen is then usually dried by artificial heat. When ready for ironing, the starched portions are dampened by means of a cloth dipped in raw starch water to which has been added a small quantity—about ½ ounce to the quart of blood albumen—clarified serum of bullock's blood. The proportion of starch in this water is usually about as 1 to 50 of water. In ironing, the irons are first made very hot, and cooled somewhat externally just before using by momentarily plunging them into a pail of water. The irons commonly employed are what are termed polishing irons; they have the posterior edge rounded instead of angular, as in the ordinary smoothing or sadiron. Much of the fine gloss observed on shirts laundried by Chinamen is accomplished by the skillful manipulation of this "rounded edge" over the work—a manipulation very difficult to describe in words. It is most laborious work for those not accustomed to it. It not only renders the surface glossy, but imparts easy flexibility to the heavily starched fabric otherwise not attainable. Custom made shirts are usually laundried before delivery in trade at the factory, the ironing in these cases being largely performed by steam mangles, though some are hand finished. The following receipt for a laundry starch is said to produce a very fine and lasting gloss on linen without the expenditure of the amount of labor in ironing usually requisite to produce a fair appearance:

Corn starch	1	oz.
Water, boiling	1⅞	pt.
Bluing	q. s.	

To this when it has cooled somewhat is added and thoroughly mixed in about half an ounce of the following preparation:

Gum arabic	8¾	parts.
Sugar, loaf	2½	"
Soap, white curd	¼	"
Waterglass ("A" sirup)	1	"
Egg albumen	4	"
Water, warm	20	"

In preparing this the first three ingredients are dissolved together in the water at boiling heat, the waterglass is then added, and when the mixture has cooled down to about 150° Fah., the egg albumen is put in and the whole well beaten together. 2. How can I remove letters or numbers from linen which are written with indelible ink? A. Indelible ink stains are difficult to remove. Try using a saturated solution of mercuric chloride. The mercury salt is poisonous. 3. Will you please give me a receipt how to make universal cleaner that will take out stains, be said stains either blood, beer, wine, or fruit or any other kind, and without regard as to the materials, be the latter either silk, linen, carpets, or kid leather or any other product? A. There is no universal cleaner.

(6977) C. A. H. says: Will you kindly publish a formula for making a liquid shampoo, such as the barbers have for the hair, one that will make plenty of foam, by rubbing, but the foam should gradually disappear again, called a dry shampoo? And must I use distilled or common water? A. Liquid shampoo:

Sesquicarbonate of ammonia	2	drm.
Carbonate of potash	2	"
Soft water	¼	pt.

Dissolve and add the solution to a mixture of—

Tincture of cantharides	1½	fl. oz.
Rectified spirit	¼	pt.
Good rum	1½	"

And agitate the whole well together, adding a little scent or not, at will. This preparation, too, has been highly recommended for removing dandruff, preventing the hair falling off, etc. In using it, the hair is wetted with it, well rubbed so as to form a lather, and then either washed with cold or lukewarm water, or rubbed dry with a towel and at once arranged with a brush and comb. A commoner kind, in which the rectified spirit and one-third of the rum is replaced by water, forms the shampoo liquid often used by the hairdressers after cutting the hair. It is not necessary to use distilled water.

(6978) I. B. A. says: I have been trying to make rubber cement with the following solvents, o wit: Chloroform (Merck's purissima), benzole (pure), and also with carbon bisulphide. With chloroform, the rubber swelled very much and then floated on top of the liquid in the shape of flocculent matter, but would not dissolve. With benzole, the rubber swelled also very much, becoming transparent, with a fine amber color, but I could not get it to dissolve. The same thing happened with the carbon bisulphide. The rubber used was the pure gum of Para. Can you tell me what was the matter and how I can succeed in making a rubber cement with either of these ingredients? With each of the solvents I tried heat, but without success. A. You will have difficulty in making a good rubber cement if you do not have the requisite facilities for digesting the pure unvulcanized rubber under pressure. We recommend you to use benzole. Allow the gum to swell, then rub in a mortar, adding more of the solvent. It will not make a true solution, but will remain a pasty mass.

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

September 22, 1896,

AND EACH BEARING THAT DATE.

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

Adhesives, making, P. Murphy ... 568,265
Atomizer, V. C. Vant Woud ... 568,068
Bag holder, W. S. Howard ... 568,253
Band cutter and feeder, W. F. Greimann ... 568,026
Banjo, I. Consalvi ... 568,297
Bar. See Bicycle bandle bar. Sash bar.
Barrel ends, machine for leveling, chamfering and crozing, E. W. Sanderson ... 568,170
Basin, bath, sink, etc., wash, S. W. Lewis ... 568,261
Bath apparatus, steam, Hammer & Grosjean ... 568,303
Battery. See Electric battery.
Bed bottom, metallic, P. H. Mellon ... 568,165
Bedstead, folding cot, A. L. Ruffe ... 568,282
Beer barreling and bunging apparatus, A. E. Feroe ... 568,133
Bell and mail receiver, combined door, J. H. Key et al ... 568,306
Bicycle carrying attachment, F. B. Finley ... 568,085
Bicycle change gearing, V. Belanger ... 568,154
Bicycle foot rest and clamp, F. C. Durant ... 567,987
Bicycle bandle bar and bandle bar stem attachment, L. & C. O. Barnes ... 568,082
Bicycle handle shield, D. F. Gorman ... 568,024
Bicycle motor attachment, I. H. Davis ... 568,164
Bicycle stand, movable, H. N. Imms ... 568,053
Bicycle support, J. A. Hirsch ... 567,980
Bicycle wheel, H. F. Moore ... 568,035
Bit. See Bridle bit. Center bit.
Board. See Mouldboard.
Boiler. See Hot water or steam boiler. Sectional boiler.
Boiler furnace, A. F. Kingsley ... 568,200
Boiler tube cleaner, Forsyth & Bell ... 568,247
Book or pad, manifold memorandum, P. Hano ... 568,305
Book rest, C. F. Haynes ... 568,139
Boring machine, dowel bole, H. A. Poertner ... 568,320
Bottle, F. W. Bates ... 568,186
Bottle, R. W. Chapman et al ... 568,109
Bottle, W. H. McDonald ... 568,037
Bottle, E. A. Sanders ... 568,210
Bottle, non-refillable, W. R. Fearn ... 568,243
Bottle stopper, F. W. Waterman ... 568,286
Bottles, vessels, etc., closure for, J. R. Trisler ... 568,120
Bouquet holder, J. M. Johnston ... 568,114
Box. See Journal box. Sand box.
Box and making game, E. P. Beach ... 567,957
Bracket. See Roofing bracket. Show case bracket.
Brake. See Car brake. Electric brake. Gas brake. Machine brake.
Brake beam, H. B. Robischung ... 568,044
Brake shoe, E. W. Applegate ... 568,226
Brake shoe, W. Mye s ... 567,992
Brick drying rack, J. F. Mock ... 568,054
Bridle bit, D. H. Nash ... 568,097
Broom bead, McIver & Debrubl ... 568,267
Brooms, manufacture of, J. H. Gibson ... 568,136
Burial case, G. W. Rowell ... 568,001
Burner. See Gas burner.
Butting board adjusting device, T. Smith ... 568,149
Button, C. W. Lawyer ... 568,030
Button, detachable, I. W. Heysinger ... 568,111
Calendar, F. B. Dickason ... 567,965
Can key engaging device, J. Zimmerman ... 568,222
Candle holder, J. Frenzel ... 568,196
Candle holder, L. G. Krewel ... 568,314
Cane weaving machine, E. H. Powers ... 568,040
Car brake, railway, E. Cliff ... 568,066
Car buffer, W. F. Richards ... 568,072
Car door, grain, Treadgold & Mills ... 568,182, 568,183
Car fender, G. W. Bennum ... 568,187
Car fender, A. F. S. Colburn ... 568,191
Car fender, W. L. Friedlein ... 568,302
Car heater, electric, J. G. Noyes ... 568,168
Car or truck, H. G. Wesemann ... 568,059
Car, railway, J. A. Miller ... 568,106
Car ventilator and dust arrester, railway, S. H. Geblman ... 567,972
Carding engine appliance, Hitchon & Duckworth ... 568,197
Carding engine rubber condenser, T. G. Beaumont ... 568,014
Carpet fastener, J. J. Moore ... 568,264
Carpets, apparatus for producing raised figures on, R. Etherington ... 568,300
Carrier. See Cartridge carrier.
Cartridge carrier, R. F. Walker ... 568,220
Case. See Burial case. Sewing machine bobbin case.
Cash register and indicator, G. L. Barnes ... 568,081
Cash register and indicator, L. F. Jordan ... 568,257
Caster, H. L. Gamble ... 568,023
Caster, C. Graessle ... 568,025
Caster, ball, E. Fackner ... 568,241
Center bit, T. F. Hagerty ... 567,977
Chain link, metal, H. L. Ferris ... 568,245
Chair. See Nursery chair. Rocking chair.
Chair, H. W. Bolens ... 568,127
Chandeliers, apparatus for raising or lowering center lights of, R. H. Best ... 568,015
Churn, J. M. Stukes ... 568,005
Churn dasher, J. E. Gibbs ... 568,088
Cigar mould shaping machine, W. E. Bassett ... 568,290
Cigarette machine, D. Perez y Bunol ... 568,273
Cistern cleaner, S. J. Vance ... 568,067
Clay products, curing, W. L. McCarel ... 568,266
Cleaner. See Boiler tube cleaner. Cistern cleaner. Comb cleaner. Dish cleaner.
Clock, pneumatic, W. S. Johnson ... 567,983
Clock striking mechanism, C. R. Sing ... 568,213
Clothes pin, W. M. Fitzwater ... 568,246
Clutch, friction, A. L. Sweet ... 568,006
Cock, reversible stop and waste, J. Totham ... 568,181
Coffee berry hulling machine, A. S. Perez ... 568,114
Coke oven, F. L. Slocum ... 568,074, 568,075
Collapsible boat, J. H. Hutchings ... 568,255
Collar and hame, combination horse, J. Reimann ... 568,208
Comb cleaner, G. L. Reenstierna ... 568,169
Compass, mariner's, D. Baker ... 568,227
Computing machine, D. E. Felt ... 568,020
Conductors, making underground, Crosskey & Locke ... 568,298
Corn fork, W. J. Carley ... 568,237
Cotton scraper, A. C. Rosencranz ... 568,280
Couch, spring, C. S. Rouse ... 568,101
Coupling. See Shaft or pole coupling.
Crane, F. W. Taylor ... 568,174
Crate, shipping, W. Hall ... 568,137
Culinary utensil, K. R. Ackermann ... 568,151
Cultivator, tongueless, J. V. Rowlett ... 568,308
Curler, hair, J. Taylor ... 568,175
Currents of high frequency, regulating apparatus for producing, N. Tesla ... 568,178
Currents of high frequency, method of and apparatus for producing, N. Tesla ... 568,179
Curtain fixture, F. C. Lounsbury ... 568,091
Curtain pole fixture, R. B. Starbuck ... 568,048
Cuspidor, J. R. Powell ... 568,070
Cutter. See Band cutter. Tobacco cutter. Wire cutter.
Darning apparatus, E. Goodwin ... 568,110
Dental engine drip apparatus, T. E. Daugherty ... 568,163
Die. See Welding die.
Digger. See Post hole digger.
Dish cleaner, J. H. Lippard ... 568,202
Display rack, J. M. Keeler ... 568,199
Display receptacle for barrel covers, W. H. Bloom ... 568,126
Distilling apparatus, J. Van Ruymbeke ... 568,219
Distilling fatty substances, process of and apparatus for, V. J. Kuess ... 568,258
Door fastener, sliding, T. Tighe ... 568,078
Door hanger, J. Schlutter ... 568,171
Door, hanging and sliding, H. C. Ashenfelter ... 568,152
Door securer, H. E. & F. A. Casto ... 568,189
Drain, J. Franklin ... 568,195
Dredger, P. Bunau-Varilla ... 568,234
Drill, G. H. Fuller ... 568,067
Dropper. See Poison dropper.
Drying apparatus, C. B. McDonald ... 568,096
Dust separator, Lynch & Christoph ... 567,988
Electric battery, H. C. Thomson ... 568,007
Electric brake, A. F. Macdonald ... 567,989
Electric current regulation, automatic device for, E. W. G. C. Hoffmann ... 567,982
Electric currents of high frequency and potential, apparatus for, N. Tesla ... 568,176
Electric motor controlling apparatus, H. W. Leonard ... 568,088
Electric trap pulling devices, multiple circuit closer for, T. R. Barney ... 568,013
Electrical currents of high frequency, apparatus for producing, N. Tesla ... 568,180
Electrical energy, transforming chemical energy of fuel into, W. Borchers ... 567,959
Electricity for lighting or heating railway cars, apparatus for generating, C. E. Dressler ... 568,193
Electrode, H. Blackman ... 568,229
Electrode for electrolytic decomposition, H. Blackman ... 568,230
Electrode, therapeutic, J. S. Muir ... 568,095
Electrodes, substance for telephone, D. Drawbaugh ... 567,966
Electrolytic anode and apparatus, H. Blackman ... 568,231
Embossing machine, Nesom & Eckenrode ... 568,268
Engine. See Gas engine. Locomotive engine. Oil and gas motor engine.
Eyeglass nose piece, H. Borsch ... 568,294
Eyeglasses or spectacles, C. J. Bailey ... 567,955
Eyelets, etc., device for feeding, A. Latham ... 568,201
Eyelets, device for making covered, A. C. Estabrook ... 568,131
Eyelets, device for making covered, F. N. Look ... 568,317
Faucet, N. S. Cary ... 568,238
Faucet, F. Spahr ... 568,217
Feather beater, C. S. Smith ... 568,215
Fence, J. L. Sarver ... 568,073
Fencing, stay for wire, G. C. Bovey ... 567,990
Fender. See Car fender.
Fiber cleaning machine, S. B. Allison ... 568,225
Fiber separating and cleaning machine, S. B. Allison ... 568,224
Fiber separating machine, S. B. Allison ... 568,309
Fire escape ladder, P. Ries ... 568,000
Fish nets, apparatus for casting, J. M. Holten ... 568,252
Floor fabric, C. H. M. Lyte ... 568,092
Flour dressing machine, J. H. Dawson ... 567,963
Flower holder, A. J. O'Neal ... 568,269
Fly trap, J. M. Butcher ... 568,322
Folding table and tray, W. L. Whiting ... 568,821
Fork. See Corn fork.
Furnace. See Boiler furnace. Smelting furnace.
Furnace grate, C. R. Greufer ... 567,974
Gas brake, liquefied, G. Shuler et al ... 568,214
Gas burner, W. J. Dudley ... 568,130
Gas burner, convertible, H. Sewall ... 568,002
Gas burner, electric band lighting, G. J. Galbraith ... 567,971
Gas engine, C. D. Anderson ... 567,954
Gas engine, J. S. Klein ... 568,115
Gas producing apparatus, C. W. Pinkney ... 568,038
Glassware, method of and apparatus for making hollow, C. V. Arbogast ... 568,287
Globe holder and ash pan, combined, T. E. Adams ... 568,223
Gold and silver from their ores, electrolytic apparatus for extracting, Pelatan & Clerici ... 568,099
Governor, resistance, O. Sendtner ... 568,045
Grain, cleaning or scouring, J. Beall ... 568,125
Grain stoning and washing apparatus, L. E. Barbeau ... 567,956
Grinding mill, E. Bailly ... 568,289
Guitar, C. E. Brown ... 568,106
Gun cocking mechanism, Bachmann & Wagner ... 568,288
Guns, single trigger for double barreled, E. H. Thorneley ... 568,285
Hanger. See Door hanger.
Harness, M. T. Hancock ... 568,304
Harrow, Ferling & Heim ... 568,244
Harvester finger guard, C. F. George ... 568,135
Hat fastener, M. Lopez ... 568,031
Hat fastener, F. M. Stacy ... 568,047
Hay press, W. S. Livengood ... 568,203
Heater. See Car heater.
Hinge, J. H. Lawrence ... 568,316
Hoe, shuffle, H. A. Parcells ... 568,143
Hog scalding apparatus, D. W. Inman ... 568,028
Hoisting and conveying apparatus, rail clamp for, P. Rasch ... 568,071
Hook and eye, W. Walton ... 568,221
Horseshoe, C. T. Tyler ... 568,056
Hose mender, J. J. Cooper ... 567,962
Hot water or steam boiler, D. F. Morgan ... 568,167
Ice cream mould and disher, Phillis & McCoy ... 568,274
Incandescing mantles, material and process for, W. L. Voelker ... 568,184
Incubators, thermal regulator for, H. O. Westendarp ... 568,123
Indicator. See Speed indicator.
Insulator, W. Wood ... 568,060
Iodoform combination with hexamethylentetramine, A. Eichengrun ... 567,968
Jack. See Track jack.
Joint. See Rail joint.
Journal box, W. H. Kendall ... 568,313
Knitting machine, R. Challands et al ... 568,190
Lamp, J. V. Moore ... 568,036
Lamp for velocipedes, etc., electric, A. M. Rodriguez ... 568,209
Lamp, incandescent, J. T. Lister ... 568,262
Lamps, apparatus for manufacturing incandescence electric, Lean & Massey ... 568,142
Lathe, crank axle, J. L. Bogert ... 568,063
Lawn sprinkler, C. D. Rathbun ... 568,042
Ledger, perpetual, H. H. Hoffmann ... 568,251
Lens, H. D. Taylor ... 568,052
Lens mount, W. C. Homan ... 568,027
Liquors, process of and apparatus for treating malt, A. E. Feroe ... 568,132
Locomotive engine, I. T. Dyer ... 568,019
Loom, J. Poyser ... 568,275
Loom, band, W. Harvey ... 568,138
Loom pattern chain, W. A. & D. Crabtree ... 568,162
Loom shuttle, self threading, J. H. Northrop ... 568,206, 568,207, 568,319
Machine brake, A. Box ... 568,233
Manicure implement, R. E. Hart ... 568,249
Match safe, Pullins & Wyatt ... 568,276
Mattress, cotton wool, U. S. S. Dahlerup ... 568,240
Measuring tank for oils, etc., T. Fuhrmann ... 568,022
Mill. See Grinding mill.
Mould. See Ice cream mould. Veneering mould.
Mouldboard, S. A. Smith ... 568,216
Mop wringer, J. Sealey ... 568,283
Motor. See Vessel motor.
Mower, lawn, E. Schreffler ... 568,146
Music book leaves, apparatus for turning, E. R. Steiner ... 568,049
Musical instrument spur wheel, P. B. T. Berner ... 568,292
Musical instruments, pneumatic action for, H. C. Reichardt ... 568,278
Nursery chair, G. W. Gable ... 568,134
Nut wrench, axle, H. C. Long ... 567,987
Nuts, tool for cleaning out, F. A. Rall ... 568,277
Oil and gas motor engine, J. S. Cundall et al ... 568,017
Organ bellows, exhauster or feeder for musical, J. H. Chase ... 568,310
Organ reed, J. Wojciechowski ... 568,124
Ozone producing apparatus, N. Tesla ... 568,177
Packing for oil well pumps, W. E. Karns ... 568,069
Pad. See Stair pad.
Paging machine, Black & Werle ... 567,958
Paper feeding machine, R. S. Oder ... 567,994, 567,995
Paper folding machine, F. Meisel ... 568,307
Paper machines, shake frame for Fourdrinier, T. H. Savery ... 568,211
Paving blocks, apparatus for handling, J. Sheridan ... 568,147
Pencil, lead, E. E. Monroe ... 567,991
Pen holder, E. Ackerman ... 567,953
Pestle and squashing apparatus, T. Wieland ... 568,009
Phonograph, G. W. Moore ... 568,116
Photographic shutter, V. Royle ... 568,102
Piano tune modifying attachment, A. H. Stuart ... 568,050
Picture support, P. Lindemeyer, Jr ... 568,090
Pin. See Clothes pin.
Pipe, R. Wetzel ... 568,008
Pipes, etc., composition of matter for sewer or water, J. Morhard ... 568,318
Planimeter, E. J. Willis (reissue) ... 11,568
Planter, O. O. Ovre ... 568,270
Pliers, cutting, C. P. Fay ... 568,242
Plow, B. Ballenger ... 568,153
Plow and seeder, combined, J. Porteous ... 568,100
Plow, disk gang, S. H. Miller ... 568,094
Plow, hillside, A. C. Rosencranz ... 568,279
Pneumatic transit pipes, valve mechanism for, B. C. Batcheller ... 568,291
Poison dropper, D. Williams ... 568,150
Post hole digger, D. E. Rowland ... 568,119
Press. See Hay press.
Pressure regulator, W. A. Kitts ... 568,029
Printing and calculating machine, D. E. Felt ... 568,021
Printing machines, stereotype plate holder for cylinder, S. D. Tucker ... 568,054
Propelling by motion of vessels, apparatus for, G. W. Price ... 567,999
Pulley guide for ropes, M. Thonar ... 568,076
Pump, steam, A. F. Hall ... 567,978
Puzzle, A. Boltz ... 568,232
Pyroxylin, compound, J. H. Stevens ... 568,105, 568,106
Pyroxylin compound, Stevens & Axtell ... 568,104
Rack. See Brick drying rack. Display rack.
Rail fastener, J. M. Spaulding ... 568,173
Rail joint, T. C. du Pont ... 567,998
Railway crossings, automatic gate for, L. L. Summers ... 568,051
Railway signal, cable, M. Norden ... 568,205
Railway signaling apparatus, T. W. Stueber ... 568,218
Railway switch, street, H. Hofstra ... 568,140
Rand or welt nailing machine, L. Goddu ... 568,248
Razor, safety, A. L. Silberstein ... 568,212
Refrigerating apparatus, coil cleaning device for, Eurich & Donges ... 567,969
Refrigerator, S. Dickinson ... 568,312
Refrigerator, evaporative, J. G. Lamb ... 568,259
Register. See Cash register.
Register, J. A. Mehling ... 568,033
Regulator. See Pressure regulator.
Rein support, A. C. Smith ... 568,148
Rock drills, rotary feeding device for, J. G. Leyner ... 568,089
Rocking chair, S. E. Blake ... 568,293
Rolling mill feed table, S. V. Huber ... 568,254
Roof construction, F. L. Cook ... 568,066
Roofing bracket, J. W. Shirer ... 568,003
Rug, carpet, etc., imitation Smyrna, G. Hornig ... 568,113
Rule, key seat, F. Cramblitt ... 568,192
Ruling machine, C. Burrows ... 568,235, 568,236
Sample holder, C. D. Allen ... 568,012
Sand box, C. G. Wells ... 568,122
Sash bar, metal, J. E. Flanagan ... 567,970
Saw set, F. W. Denhard ... 568,084
Saws, swage for upsetting teeth of mill, J. H. & G. F. Steedman ... 568,004
Sawmill carriage, G. H. Patulio ... 568,272
Saw teeth, side dresser for, G. M. Brown ... 568,295
Scissors or shears, combination lock for, T. H. Bradish ... 568,188
Screen. See Trap screen.
Seal, F. W. Wood ... 568,014
Seal, bottle, J. H. Bullard ... 568,016
Sectional boiler, H. M. Hoffman ... 568,198
Separator. See Dust separator.
Separator, C. D. Sanderson ... 568,145
Sewing machine bobbin case, H. A. Bates ... 568,107
Sewing webs of fabric, mechanism for, E. T. & E. H. Marble ... 568,032
Shade roller attachment, E. F. Hartshorn ... 568,250
Shaft or pole coupling, E. Benkert ... 568,062
Shaving brush holder, S. T. Varian ... 568,124
Shearing machine, bevel, H. C. Jones ... 568,086
Shoe, ventilated, M. Hilgert ... 568,058
Show case bracket, F. Pollard ... 568,039
Sign, electric, M. Norden ... 568,204
Signal. See Railway signal.
Signaling device, electric, G. F. Knollmann ... 567,984
Skirt, cycling, P. B. Herbt ... 567,979
Skylight fastener and raiser, G. M. Parsons ... 568,271
Skylight support, C. Escher ... 568,194
Smelting furnace, oxidizing pyrite, J. S. Loder ... 567,986
Smoke consuming device, J. C. Dias ... 567,964
Smoothing surface, electrically heated, W. S. Hadaway, Jr ... 567,976
Speed gearing, changeable, J. L. Bogert ... 568,064
Speed indicator, C. Spratt ... 568,046
Spindle support, T. Gorman ... 567,973
Spinning machine, twine, Ellis & Steward ... 568,299
Spool holder, D. P. Pewthers ... 567,996
Sprinkler. See Lawn sprinkler.
Square, tailor's, R. Moccia ... 568,263
Stackers, fan for pneumatic, F. F. Landis ... 568,315
Stair pad or the like, A. J. Le Clair ... 567,985
Stairs, steps, etc., tread for, T. Oddy ... 568,098
Stand. See Bicycle stand.
Stone, composition of matter for artificial, A. Clery ... 568,239
Stone cutting machine, M. Thonar ... 568,077
Stopper. See Bottle stopper.
Stove, vapor, S. Daniels ... 568,018, 568,311
Suspender slide, B. G. Corser ... 568,128
Switch. See Railway switch.
Table. See Folding table. Rolling mill feed table.
Table, H. Schroeder ... 568,172
Tank. See Measuring tank.
Telegraph instrument, O. M. Runkle ... 568,103
Tire, pneumatic, L. K. McClymonds ... 567,993
Tobacco cutter, T. Clark ... 568,236
Toy, optical, J. T. Lawrence ... 568,260
Track jack, P. Larkin ... 568,141
Trap. See Fly trap.
Trap screen, G. N. Winslow ... 568,185
Trolley and trolley support for electric cars, W. Grunow, Jr ... 567,975
Truck, car, W. S. Adams ... 568,079
Truss, J. W. Pfeiffer ... 567,997
Tug fastener or attachment, G. Davidson ... 568,083
Tug, shaft, L. B. Allen ... 568,080
Type writing machine, A. Fossgate ... 568,301
Type writing machine feeding attachment, G. L. Rawdon ... 568,118
Umbrella or parasol, E. E. Mallory ... 568,063
Vapor burner attachment, G. W. Billings ... 568,228
Vehicle wheel, H. C. Hicks ... 568,112
Velocipede wheel, C. de Rossetti ... 568,281
Veneering implement, W. E. Brock ... 568,156
Veneering machine, W. E. Brock ... 568,159, 568,161
Veneering machine, W. E. & A. M. Brock ... 568,155
Veneering mould, W. E. Brock ... 568,158
Veneering tool, W. E. Brock ... 568,157, 568,160
Ventilator. See Car ventilator.
Vessel motor, G. W. Price ... 568,117
Vulcanizing apparatus, P. J. Davis ... 568,129
Wagon, I. F. Brown ... 567,961
Weather strip, W. F. Woodring ... 568,061
Welding die, C. Reinhart ... 568,043
Wheel. See Bicycle wheel. Musical instrument spur wheel. Vehicle wheel. Velocipede wheel.
Wheel, C. A. Hodge ... 567,981
Windmill pumping attachment, F. Miller ... 567,990
Window, bay, C. G. Quackenboss ... 568,041
Wire cutter, A. G. Wilkins ... 568,010
Wire tightener, H. W. Vail, Jr ... 568,056
Wrench. See Nut wrench.
Wrench, G. L. Seymour ... 568,284
Wrench attachment, B. E. Keen ... 568,067
Wringer. See Mop wringer.

DESIGNS.

Bath tub, D. D. Buick ... 26,084
Bath tub rim, D. D. Buick ... 26,083
Bicycle seat, A. A. Munro ... 26,069
Bottle, G. L. Jenkins ... 26,065
Bottle stopper bulb, C. T. Schondelmeier ... 26,064
Box, F. Van Camp ... 26,066
Button or pin, J. E. Cremen ... 26,059
Car seat panel, J. A. Brill ... 26,068
Communion service tray, J. W. Sykes ... 26,061
Drum, R. B. Cooley ... 26,062
Fabric, S. Yokozuka ... 26,085
Files, etc., handle for nail, H. A. Weihman ... 26,060
Fire escapes, friction loop for, Howland & Olmsted ... 26,071
Flower pot holder, M. Clarke ... 26,067
Gas engine frame, W. L. Crouch ... 26,072
Glass vessel, J. W. Hunter ... 26,082
Hoisting machines, cylinder head for, F. A. Bates ... 26,073
Mantle support, F. S. Barrows ... 26,075
Mattress frame corner block, W. H. Taber ... 26,070
Paper, wall, C. Booz ... 26,086 to 26,100
Pin, Tillinghast & Albro ... 26,058
Pipe scraper, L. Whiting ... 26,053
Setting die, F. S. McKenney ... 26,076, 26,077
Sign, O. F. Wood ... 26,080
Sign letter, J. A. Irving ... 26,076
Sign post, Lawton & Stoner ... 26,079
Toy, illuminated, H. Dock ... 26,081
Window roller bracket, W. Judkins ... 26,074

TRADE MARKS.

Baking pans, certain named, W. H. Mullins ... 28,882
Gum, chewing, American Chemical Company ... 28,885
Tea, Reed, Walsh & Lange ... 28,886

PRINTS.

"Colman's Mustard All Over the World," J. & J. Colman ... 26
"Ye Witches' Fortune Cards," United States Playing Card Company ... 25

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 10 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway, New York. Special rates will be given where a large number of copies are desired at one time.

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.