

(58) J. B. C. writes: Can you tell me through the SCIENTIFIC AMERICAN: 1. I wish to use a liquid electrical conductor that shall be better than acidulated water and not as good as mercury. A. We know of no solution that will meet your wants. 2. Also a solid conductor that shall have much more resistance than carbon. A. Try charcoal or a mixture of charcoal and clay. 3. How can gold be given different colors, as in the letters of a monogram? A. This is done on cheap jewelry by means of thin lacquers colored with the anilines. The finer grades of work are made from pieces of gold of different colors soldered together. 4. How is silver oxidized, as in jewelry? A. Silver may be oxidized by dipping it in a solution of sulphate of potash.

(59) A. H. writes: If a train of cars traveling east at the velocity of a cannon ball should have on board a loaded cannon the mouth of which is pointed west, about how far would the ball in the cannon travel west if the cannon be discharged? A. The ball would fall to the ground at the point of firing under the conditions you mention.

(60) D. F. D. asks: 1. What kind of cement or preparation will cause lead to firmly adhere to a smooth iron surface? A. For joining metallic surfaces where soldering is inconvenient, recourse may be had to a composition formed in the following way: Pure and finely divided copper, such as that obtained by the reduction of copper sulphate with zinc clippings, 30 to 36 parts, according to the degree of hardness desired in the cement, dissolved in a sufficient quantity of sulphuric acid to make a thick paste; with this is incorporated, by trituration in a mortar, mercury, 70 parts. The mass is soft, but hardens at the end of some hours. For use it is heated to 100° C. and powdered in an iron mortar to 150° C. It adheres strongly on drying, and is harder in proportion as it contains more copper. 2. In what way can a cement be prepared, say, thirty minutes, sufficiently hard to be used as a mould for metal. A. A cement which may be used to unite all metals consists simply of a mixture of commercial glycerine and finely powdered litharge. By mixing glycerine and litharge a paste is obtained which will harden in from ten to thirty minutes, according to the amount of litharge used. We would recommend you to try the last receipt for forming moulds, described in second question.

(61) W. H. L.—The size for preparing wood work for gilding is as follows: To half a pound parchment shavings or cuttings of white leather, add 3 quarts water; boil it in a proper vessel till reduced to nearly half the quantity; then take it off the fire and strain it through a sieve. Be careful in the boiling to keep it well stirred, and do not let it burn.

(62) M. M. B. asks how to redye seal skins. A. All of these sealskins sold in this market are prepared and cured in London, where the process is kept very secret, and no knowledge can be obtained on the subject. Some information is given on page 5510 of SCIENTIFIC AMERICAN SUPPLEMENT, No. 345, under head of "How Seal Skins are Dressed."

(63) J. A. C. asks: Which would be the best way to raise water from a drain mouth where a common outlet is not to be had? Would an Archimedean screw have any special advantage over a pump in a lift of 4 or 5 feet? Would a centrifugal pump be better than a common lift pump? Power to be a windmill. A. The best is the most simple and common lift pump (attached to wind mill). You can make one of wood or obtain one through the hardware trade from Chicago.

(64) A. N. Works asks how they can galvanize small castings without much cost. A. First dip your castings in a pickle of equal portions of sulphuric acid and water, and finally immerse in a bath of equal portions of tin and lead. We recommend you to read the article on "The Galvanizing Process," page 2798 of SCIENTIFIC AMERICAN SUPPLEMENT, No. 176.

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

W. E. L.—Unfortunately in unpacking the specimens Nos. 1 and 2 became mixed. No. 3 is a black shale containing pyrite. No. 4 is a decomposed silicate, which is more or less weathered. None of the specimens sent, in our opinion, are of any value as far as their metallic constituents are concerned.—D. A. O.—The specimen is undoubtedly a fire clay, but its value can only be determined by chemical analysis. This would give the percentage of the worthless constituents. The expense would be \$25.00.

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.

The "Rockwood" Instantaneous Photographic Dry Plates are the best for amateurs and scientists. Send for circular and instructions, No. 17 Union Square.

Walrus Leather, Nickel Anodes, Salts, and all Platers' Supplies, Greene, Tweed & Co., New York.

Notice to Hydraulic Engineers.—Natural pressure waterworks needed at St. Ignace, Michigan. Correspondence solicited from practical men. Address B. E. Cubley, Secretary.

For Sale.—Five patents entire, Nos. 235,844, 244,414, 254,251, 247,286, 238,545. Paper Pulp Engine. Pay as speciality. J. R. Abbe, Manchester, N. H.

Steam Pipe and Boiler Covering, Roofing Paints, Prepared Roofing, and general line of Asbestos materials. Phil Carey & Co., 127 Central Avenue, Cincinnati, O.

For Sale.—Valuable patent in small shelf-hardware. Address Patentee, Box No. 986, Leadville, Col.

Pocket Manual—Inquire Within, No. 2, just ready. Prepared by ten specialists. Sells on sight to all. \$25 worth of valuable and real information for 50c. 24 pages; cloth bound. Agents' harvest. Particulars free. R. L. Watkins, Drawer 517, Prospect, Ohio.

Philosophical and Chemical Apparatus and Materials. Send for catalogue. Queen & Co., Philadelphia.

Dies, Patterns, etc., Chas. A. Bailey, Middletown, Ct. Blake's Patent Belt Studs are the strongest, cheapest, and most durable fastening for belts. Greene, Tweed & Co., New York.

MASTERY.—An illustrated weekly devoted to Home Handicrafts, Household Affairs, Rural Occupations, Industrial Arts, Amateur Mechanics, Experimental Science; aiding young people in Self-culture of the Hand and Eye, and Self-help for Profit. Liberal offer to canvassers. Terms—\$3.00 per year, in advance; \$1.00 for 15 weeks, on trial; 7 cents a copy. Ask newsdealers, or address 842 Broadway, New York. MASTERY.

Straight Line Engine Co., Syracuse, N. Y. Best in design, materials, workmanship, governing; no packing.

Back numbers, volumes, and sets SCIENTIFIC AMERICAN supplied by A. S. Clark, 34 Park Row, New York.

For Freight and Passenger Elevators send to L. S. Graves & Son, Rochester, N. Y.

Brush Electric Arc Lights and Storage Batteries. Twenty thousand Arc Lights already sold. Our largest machine gives 80 Arc Lights with 45 horse power. Our Storage Battery is the only practical one in the market. Brush Electric Co., Cleveland, O.

Best Squaring Shears, Tinner's, and Canners' Tools at Niagara Stamping and Tool Company, Buffalo, N. Y.

Lathes 14 in. swing, with and without back gears and screw. J. Birkenhead, Mansfield, Mass.

The Best.—The Dueber Watch Case.

If an invention has not been patented in the United States for more than one year, it may still be patented in Canada. Cost for Canadian patent, \$40. Various other foreign patents may also be obtained. For instructions address Munn & Co., SCIENTIFIC AMERICAN Patent Agency, 261 Broadway, New York.

Nickel Plating.—Sole manufacturers cast nickel anodes, pure nickel salts, polishing compositions, etc. Complete outfit for plating, etc. Hanson & Van Winkle, Newark, N. J., and 92 and 94 Liberty St., New York.

Lists 29, 30 & 31, describing 4,000 new and 2d-hand Machines, ready for distribution. State just what machines wanted. Forsait & Co., Manchester, N. H., & N. Y. city.

Guild & Garrison's Steam Pump Works, Brooklyn, N. Y. Steam Pumping Machinery of every description. Send for catalogue.

Ammonia from its solution in the manufacture of ice, etc., process of and apparatus for separating. G. O. Rinman.

Animal shears, Gleason & Holt.

Animal trap, J. H. & T. D. Morris.

Automatic switch and cut-out, C. G. Perkins.

Axle, car, A. Walton.

Bag or satchel lock, R. Flocke.

Baling press, P. K. Dederick.

Band cutter, J. Allen.

Bankbook depositor's, E. T. Moulton.

Bearing, anti-friction, J. G. Avery.

Bed bottom, spring, E. W. Grafton.

Bed lounge, F. Rentschler.

Bell, L. E. Clark.

Bell gearing, A. H. Kennedy.

Berths, counter balance for folding steps for, Castle & Skaats.

Blankets, putting up, D. A. Swaney.

Blast furnace, P. L. Weimer.

Board. See Bosom board.

Boat knees, etc., joint for, J. W. Sanborn.

Boiler furnaces, locomotive and other, J. A. Gano (r).

Bolting reels, apparatus for feeding flour to, E. L. Conklin.

Book clasp, A. C. Hafely.

Boot and shoe jack, P. D. Crull.

Bosom board, A. P. Ryan.

Bottle covering, S. Oakman.

Bottle stopper, F. H. Lowre.

Bottle stopper fastener, J. T. Walker.

Box. See Journal box.

Box fastener, T. H. Brown, Jr.

Bran compressor, J. L. Kail.

Brake. See Car brake. Wagon brake.

Brick, apparatus for tempering and preparing clay for making, W. W. Winn.

Brush handle, S. B. Stanton.

Buckle, F. Armstrong.

Buckle, trace, D. T. Harbison.

Bung extractor, Macher & Lins.

Bustle, A. Kelley.

Button setting instrument, Pratt & English.

Cable grip, etc., endless, A. Haman.

Caisson gate, G. F. Schidell.

Calculating machine, I. E. Tallman.

Calendar, H. S. Hack.

Calendar, H. H. Ham, Jr.

Came for lightening vessels, J. J. Peetz.

Can. See Milk can. Oil can. Paint can.

Can testing machine, Norton & Hodgeson.

Cane, electric, A. & A. Roovers.

Cane stripper and header, Coburn & Thompson.

Car brake, E. Katzenmayer.

Car brake, V. C. Travis.

Car coupling, F. Attock.

Car coupling, R. Bigney.

Car coupling, C. Clarke.

Car coupling, J. B. Draper.

Car coupling, C. J. Fortson.

Car coupling, E. N. Gifford.

Car coupling, T. H. James.

Car coupling, C. Luther.

Car coupling, E. F. Walker.

Car coupling and buffer, C. C. & C. Baderton.

Carbon filaments, apparatus for treating, C. G. Perkins.

Cash and parcel carrier, automatic, C. Grant, Jr.

Chopper and cultivator, combined, E. A. Daniel.

Chuck, planer, W. Porter.

Clasp. See Book clasp. Garment supporter clasp.

Clasp, J. E. Bedford.

Cleaner. See Cotton cleaner. Slate and window cleaner. Steam boiler cleaner.

Clock gravity escapement, D. Shive.

Coal elevator and conveyer, R. B. Little.

Coke oven, L. Semet.

Coke oven door and frame therefor, Herron & Wray.

Collar, W. Cohlman.

Collar, A. C. Fellows.

Colter, rolling landside, G. B. St. John.

Compressing pulverized material, C. Hemje.

Cooking apparatus, D. C. Ripley (r).

Cutter. See Band cutter. Corn cutter. Sewing machine thread cutter. Stalk cutter. Vegetable cutter. Weed cutter.

Cutting blanks, machine for, J. R. Williams.

Dental plate, V. Van Vleck.

Designs, representing and multiplying monumental and other, F. M. Nichols.

Creel for spooling and warping machines, G. L. Tarr.

Crochet needle, J. H. Doolittle.

Cultivator, J. G. Trump.

Cultivator tooth, reversible, G. D. Rowell.

Curtain loop or holder, S. A. Chapman.

Cutter. See Band cutter. Corn cutter. Sewing machine thread cutter. Stalk cutter. Vegetable cutter. Weed cutter.

Cutting blanks, machine for, J. R. Williams.

Dental plate, V. Van Vleck.

Designs, representing and multiplying monumental and other, F. M. Nichols.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

October 23, 1883.

AND EACH BEARING THAT DATE.

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

Adjustable elevator, G. Milliken.	287,042
Aging liquors, process of and apparatus for, H. Glass.	287,272
Air compressor, G. R. Cullingworth.	287,104
Air compressor, hydraulic, W. A. Babcock.	

Jack. See Boot and shoe jack. Lifting jack. Wagon jack.	
Joint. See Lightning rod joint. Railway rail joint.	
Journal bearing, E. R. Ware.....	287,203
Journal box, G. R. Cullingworth.....	287,006
Knitting machine needle, L. E. Salisbury.....	287,175
Lamp and holder, electric incandescent, C. G. Perkins.....	287,314
Lamp and switch, incandescent electric, C. G. Perkins.....	287,313
Lamp, electric arc, J. B. Tibbits.....	287,067
Lamp, electric incandescent, C. G. Perkins.....	287,319
Lamps, carbon holder for incandescent, C. G. Perkins.....	287,323
Lamps, clockwork for mechanical, T. Silver.....	287,334
Lamps, electrode for electric arc, C. J. Van Depele.....	287,344
Lard cooler, O. G. Burnham.....	287,362
Level, L. Van Aystyne.....	287,342
Leveling rod, W. Gurley.....	287,021
Life guard and track clearer, R. B. Locke.....	287,036
Lifting jack, T. Thom.....	287,066
Lifting jack crank handle, J. M. Vance.....	287,195
Lighting red joint, W. Hewitt.....	287,286
Link bending machine, J. Baird.....	287,359
Lock. See Bag or satchel lock. Nut lock. Seal lock.	
Lubricator, C. W. Baldwin.....	287,085
Lumber, drying and seasoning, J. F. Walter, Jr.	287,351
Marker, land, L. Gairaud.....	287,118
Mask for baseball catchers, A. K. Schaap.....	287,331
Mask, wire, H. C. Lee.....	287,137
Meat cutting machine, W. G. Bell.....	287,360
Melons, apparatus for packing and transporting, W. Davis.....	287,106
Metal, removing surplus material from articles coated with melted, H. A. Young.....	287,076
Meter, R. Heinle.....	287,283
Milk can, Wilke & Duggan.....	287,205
Mile. See Rolling mill.	
Mining machine, coal, S. C. Lechner.....	287,032
Mordant for aniline black, A. N. Dubois.....	287,112
Motion device for converting, R. G. Moody.....	287,307
Music paper for automatic musical instruments, machine for perforating, R. T. Smith.....	287,062
Nail plate feeder, J. H. Dunbar.....	287,332
Necktie and collar stay, J. G. Minnich, Jr.	287,043
Necktie fastening, F. L. Garrigues.....	287,119
Nut lock, F. H. Cranford.....	287,003
Nut lock, B. G. Miller.....	287,041
Nut lock, A. Reese.....	287,390
Oil can, J. A. Campbell.....	287,332
Oils, decoloring vegetable, Bang & Sanguinetti.....	287,216
Oleaginous matter from animal and vegetable substances, extracting, J. D. Jones.....	287,382
Ore concentrator, C. C. Rueger.....	287,173
Ore concentrator, dry, J. G. Vollmer.....	287,396
Ore grinder and amalgamator, combined, P. Eddy.....	287,256
Ore separator and amalgamator, Tobey & Thayer.....	287,195
Ores for furnaces, preparing powdered or granulated, J. J. Fronheiser.....	287,117
Padlock, indicator, A. Jackson.....	287,028
Padlock, permutation, G. H. Newell.....	287,009
Pain can, E. Norton.....	287,047
Pamphlet holder, J. C. Poor.....	287,052
Parcel carrier, J. R. H. Hinzen.....	287,124
Parcel transmitter for stores, D. M. Skinner.....	287,182
Paving and building blocks, machine for making, C. Diebold.....	287,011
Pen, fountain, J. H. Shields.....	287,060
Pencil holder, J. O. Hull.....	287,400
Photograph, C. C. Reynolds.....	287,146
Picker. See Shoddy picker.	
Picture hanger, S. B. Ellithorpe.....	287,113
Pin, B. A. Ballou.....	287,096
Pipe wrench, J. L. Taylor.....	287,193
Plane, bench, J. Campbell (r).	18,394
Plane, joiner's, W. B. Fenn.....	287,031
Planing and sawing machine, T. J. Gloucester.....	287,019
Planimeter or measuring parallel ruler, A. Wachs.....	287,200
Planter and fertilizer distributor, hand seed, R. A. Johnson.....	287,132
Planter and fertilizer distributor, seed, C. Young.....	287,210
Planter and guano distributor, combined cotton, J. A. Elliott.....	287,014
Plaster, corn, W. G. Gray.....	287,121
Plaster, corn, Kroulik & Bilan.....	287,384
Plaster, hand corn, M. Records.....	287,162
Pliers for cutting and capping fuse, etc., S. Poole.....	287,159
Plow, Lush & Bell.....	287,148
Plow, D. K. Miller.....	287,148
Plow, seeder, and cultivator, sulky, P. Lincoln.....	287,004
Pneumatic elevator, J. Lewis.....	287,033
Poke, animal, P. Swan.....	287,190
Portfolio, King & Goodwin.....	287,000
Pot. See Glass pot.	
Power. See Horse power.	
Press. See Baling press.	
Printing machine, Kendall & Kruse.....	287,388
Printing presses, automatic cutting and feeding attachment for, C. E. Clement.....	287,339
Printing presses, sliding bearer for beds of, A. Campbell.....	286,997
Protector. See Hatchway protector.	
Pulp from sugar cane, etc., producing, E. C. Le Bourgeois.....	287,302
Pulp strainer, F. Reinicke.....	287,164
Pump, J. W. Powers.....	287,053
Pump bucket, chain, O. E. Wadhams.....	287,348
Pump, double-acting steam, E. Davies.....	287,352
Pump regulator, steam, J. Wagner.....	287,069
Radiator attachment, steam, R. T. Crane.....	287,099
Radiator, steam and hot water, J. Haug.....	287,122
Railway fog signal, W. S. Phelps.....	287,157
Railway frog, A. H. Gorton et al.....	287,274
Railway gate, McNeely & Drake.....	287,147
Railway rail joint, C. M. Keefer.....	287,296
Railway signal, Peedle & Thornton.....	287,051
Ranways, conduit for traction rope, A. Bonzano.....	287,220
Range boiler setting, J. H. Burnett.....	287,231
Razor strap and drawer, combined, H. B. Emerson.....	287,260
Recorder. See Time recorder.	
Regulator. See Speed regulator.	
Rein holder, Laney & Yost.....	287,031
Revolving wrench, S. A. Thomas.....	287,194
Ring. See Watch dust ring.	
Rock drill support, G. R. Cullingworth.....	287,102
Rock drill tripod, G. R. Cullingworth.....	287,103
Rock drills, connecting rod for, C. A. Sterling.....	287,188
Rod. See Leveling rod.	
Roller mill feed mechanism, G. V. Heckler.....	287,126
Rolling mill, continuous, F. H. Daniels.....	287,004
Rotary steam engine, L. D. Hooper.....	287,379
Rowing apparatus, boat, A. Beckers.....	287,088
Rowlock, J. Passene.....	287,155
Sackturner, L. Arthur.....	287,214
Safe, fireproof, T. Brett.....	286,996
Salt evaporating pan, G. H. Smith.....	287,83
Sandpapering machine, J. R. Thomas et al.....	287,340
Sawmill dog, J. Moore.....	287,308
Saw sage, P. B. Charboneau.....	287,363
Saw table gauge, J. H. Hamlet.....	287,124
Sawing machine, circular, L. Gould.....	287,275
Scales, scoop balance attachment for weighing, A. Leas.....	287,136
Scouring wheat, etc., machine for, J. T. Ewan.....	287,370
Scraper, boot, M. A. Collins.....	287,342
Seal lock, V. A. Krepps.....	287,299
Seal trap for lavatories, bath tubs, etc., mercury, A. Edwards.....	287,369
Seed bar tooth, G. D. Rowell.....	287,171
Seedling machine, J. M. Lindsey.....	287,035
Separator. See Grain separator. Ore separator.	
Settee, cot, and tent, convertible, E. S. Amrock.....	287,078
Sheet metal device for holding material to be, E. J. Reed.....	287,370
Shoe target, J. A. Dressel.....	14,355
Trimming, Horwitz & Neper.....	13,359
CARPET, H. Hunt.....	14,360
Carpet, W. McCallum.....	14,363
Carpet, D. G. Melville.....	14,361, 14,362
Carpet, A. Petzold.....	14,369
Cleak, child's, C. O'Hara.....	14,364
Costume, child's, C. O'Hara.....	14,365, 14,368
Fringe, C. Cresson.....	14,353
Glove, R. Bartel.....	14,32
Overshoes, ornamentation of, G. Watkinson.....	14,372
Pendant, B. Dreyfus.....	14,356
Skirt with sash drapery, Miss's kilt-plaited, J. Q. Reed.....	14,370
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
Cigars, cigarettes, and smoking and chewing tobacco, Siegel Brothers.....	10,673
Gum, chewing, S. Coleman.....	10,649
Lamp chimneys, G. A. Macbeth & Co.....	10,653
Lamp chimneys and lantern globes, G. A. Macbeth & Co.....	10,655
TRADE MARKS.	
Base balls, A. J. Reach & Co.....	10,662
Bats, base-ball, A. J. Reach & Co.....	10,663
Biscuits, W. G. Wilson.....	10,671
Canned fruits, vegetables, and other articles of food, Franco-Californian Packing Company.....	10,658
Cigarettes, J. Huppmann.....	10,660
C	