

# Notes and 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 This is for our information and not for publication.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.

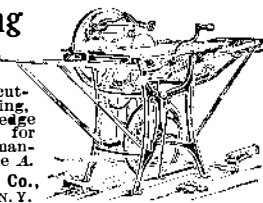
(9550) M. M. says: Will you kindly answer by letter the address of all the trade schools outside the one at First Avenue, 67th and 68th Streets, New York, which is filled? A day school where plumber's trade is taught. Please answer as soon as possible. A. The New York Trade School is the only trade school that we are certain has a day course in plumbing. We would advise you to write for catalogues, however, to Pratt Institute, Brooklyn, N. Y.; St. George's Evening Trade School, New York; McAlpin Trade School, New York; Baron de Hirsch Trade School, New York city; Highland Falls Trade School, Highland Falls, N. Y.; North End Trade School, Boston, Mass.; Charitable Mechanics' Association Trade School, Boston; Williamson Free School of Mechanical Trades, Williamson, Pa.; California School of Mechanical Arts, San Francisco, Cal.; Wilmerding's School of Industrial Arts, San Francisco, Cal.

(9551) H. J. H. says: In the physics class recently a discussion arose concerning the direction or directions in which the explosive power of dynamite is exerted. The teacher contends that the explosive force is exerted equally in all directions; the students, that the greater part of the force is exerted in a downward direction. Will you please decide which is correct? If force is exerted in a downward direction, why? Students base their contention on the fact that the textbook says: "Dynamite placed and exploded on a rock will shatter the rock." Replying to your question, we would say that your teacher is right; the force exerted by any explosive is one caused by a large volume of gas suddenly liberated, and a gaseous pressure is always exerted equally in all directions. The opinion which you hold is a very common one, which arises from not fully understanding the nature of an explosion. When a large amount of gunpowder placed on the surface of the earth is exploded, a very large volume of gas is suddenly liberated by the burning of the powder. In this case, however, the liberation of the gas is not instantaneous, and there is sufficient time for the gas to escape upward into the atmosphere before the pressure, which acts equally in all directions, is sufficient to greatly affect the surface on which the gunpowder was set off. If the powder could have been burned ten times as rapidly, the same amount of gas would have been liberated; but because it was liberated more rapidly, the pressure would have been many times greater, and sufficient in all probability to scatter the earth or rock beneath it in all directions. When dynamite is exploded, exactly the same effect takes place, excepting that in the case of dynamite, the gas is liberated almost instantaneously. In this case there is not time for the gas to escape upward before such an enormous pressure is exerted in all directions that whatever is near it, either above or below, is shattered.

(9552) J. K. says: 1. I want to make a sounding box 10 inches in diameter and 4 inches high. What material should I use, and of what thickness for top, bottom and sides? A. A sounding box may be made of any kind of wood, excepting the part which gives the resonance. This should be made of clear pine or spruce, very resonant woods. The resonant side may be from an eighth to a quarter of an inch, depending upon the kind of instrument upon which it is put. No general answer can be given. The back and belly of a violin are not usually as thick as an eighth of an inch. 2. What is meant by tensile strength? When the quantity of lumber is expressed in feet, which is meant—square or cubic feet? A. Tensile strength is the force required to pull open a wire or bar or rod of any given material, when the piece has a section of a square inch. When lumber is given in feet, the square foot or superficial foot with a thickness of one inch is understood. Thus a plank two inches thick has twice as many feet in it as a piece one inch thick. 3. Why is it that a locomotive with 1,500 or probably little more horse-power can attain a speed of 80 or 85 miles an hour, with a train of 250 or 300 tons, whereas a racing automobile with 30 horse-power and weighing about 3,500 pounds, which represents a much greater power per pound of weight moved, attains only

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**ELECTRICITY CONTROL.** By Leonard Andrews, Assoc.M.I.C.E., M.I.E. Philadelphia: J. B. Lippincott Company, 1904. 8vo.; pp. 231; 204 illustrations.

This book is devoted exclusively to the systems of electric transmission and switch gear between the generators and the distributing center. Starting with the general principles of switch gear design, the author discusses its constructional details in the form of circuit breakers, alternating reversing current devices, and the arrangement of bus bars and other apparatus for parallel running. The general arrangement of controlling apparatus for both high and low tension systems is also gone into and examples of complete installations of both types are given. Long distance transmission schemes are also discussed, and the insulators, lightning arresters, etc., used on such lines are thoroughly described. Numerous half-tones and line cuts illustrate the text in a thorough manner. The book will be found most useful by electrical engineers who have to deal with this subject.

**THE NAVAL CONSTRUCTOR.** By G. Simpson, M.I.N.A. New York: D. Van Nostrand Company, 1904. 16mo.; pp. 588; numerous diagrams and tables. Price, \$5.

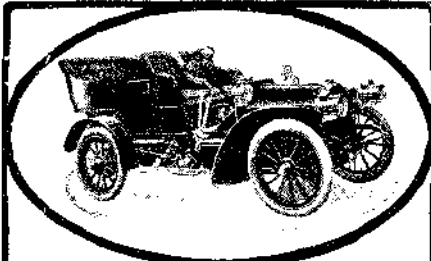
This handbook is one of the most complete works of ready reference for those engaged in ship design, construction, or maintenance that we have seen. A great deal of valuable information on most points in the theory and practice of marine architecture will be found in its pages in very concise form, while besides this there is much new matter that will be found useful, such as the chapter on design and many of the tables of standardized fitting details. The freeboard tables have all been explained and their application has been simplified by the working out of examples of the various types to which freeboards are assigned. Among these types are the modern shelter decker, rules for which have recently been issued. All obsolete matter and data have been eliminated and the book is entirely up-to-date and thoroughly practical in its character. A large number of valuable tables are contained in its latter pages.

**TASCHENBUCH DER KRIEGSFLOTTEN VI. JAHRGANG 1905.** Mit teilweiser Benutzung amtlichen Materials. Herausgegeben von B. Weyer, Kapitänleutnant a. D. 359 Illustrationen. München, 1905. J. F. Lehmanns. Price, \$1.50.

The stirring events in the Far East, events which are of considerable importance in naval annals because of the destruction of Russian and Japanese ships, has rendered it necessary for Capt. Weyer to revise his excellent little manual with considerable care. The book as it now stands takes into consideration the losses that have been sustained by both combatants up to December 10, 1904, and may, therefore, be considered the most thoroughly up-to-date naval manual now to be obtained. About fifty pictures and drawings have been added to this year's book, which have contributed much to the value of the work. In order to make room for these, a few unimportant chapters on signals and information relating to government officials have been dropped.

**INDEX OF INVENTIONS**  
For which Letters Patent of the United States were Issued for the Week Ending February 28, 1905  
**AND EACH BEARING THAT DATE**  
[See note at end of list about copies of these patents.]

Abrading implement, Edwards & Williams..	783,937
Accounts, means for entering, R. C. Williams .....	783,738
Acies from solutions, apparatus for the recovery of volatile, E. R. Hewitt.....	783,783
Advertising device, Reupath & Corbitt.....	783,801
Air brake, J. Riley.....	783,801
Amusement apparatus, U. Ancillotti.....	783,812
Angle Joint, J. D. Walsh.....	783,987
Armatures for dynamos with wave-winding, equipotential connections for, Arnold & Collischonn .....	783,498
Bag turning machine, W. H. Lester.....	783,443, 783,444



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Table of industrial patents with columns for patent number, inventor name, and date. Includes items like 'Bale band fastening', 'Bale or crate', 'Baling press', etc.

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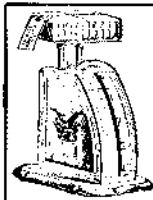
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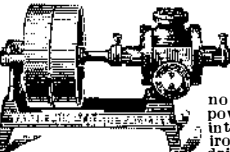
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Heating system, F. F. Coggin..... 783,422
Heating system, hot water, J. P. Sinclair..... 783,472
Holdback attachment, single harness, G. Kresge..... 783,441
Hook and eye, M. G. Miller..... 783,450
Horse blanket attachment, E. E. Miller..... 783,700
Horsehoe, carb., D. G. Wyman..... 783,918
Horsehoe, safety tread, B. Braun..... 783,567
Hose supporter, S. Mappert..... 783,881
Hunter's blind, duck, Thorne & Schonasky..... 783,705
Hydrant, W. L. Selleck..... 783,900
Hydrant or water plug, A. K. Brake..... 783,925
Hydrostatic pressure in service stand-pipes, apparatus for reducing, H. L. Goodwin..... 783,829
Ice hoist, W. A. Beck..... 783,672
Index card-holding device, Poole & Dike..... 783,758
Induction coil, H. Shoemaker..... 783,802
Insect-collecting apparatus, D. J. Marston..... 783,752
Insulated railway rail joint, E. D. Lewis..... 783,751
Insulating base block for electric equipment, M. Guett..... 783,430
Insulation for edgewise wound coils, G. H. Ruple..... 783,546
Ironing machine, fold collar, L. R. Helm..... 783,433
Jar holder, O. Cooper..... 783,618
Joist hanger, J. Tuteur..... 783,807
Kiln, means for supporting chinaware in glazing, F. G. Haney..... 783,948
Knife-cleaning apparatus, F. W. Margetts..... 783,446
Knitting machine, circular, A. C. Baum..... 783,408
Lacing stud, shoe, C. H. Harden..... 783,949
Lamp adjuster, electric, H. D'Olier, Jr..... 783,741
Lamp and socket, electric, C. G. Perkins..... 783,645
Lamp, electric arc, C. A. Nagel..... 783,974
Lamp extinguisher, F. S. Dilworth..... 783,825
Lamp, gas, C. Wood..... 783,857
Lamp, incandescent gas-light, L. Wolf..... 783,662
Lamp shade attachment, H. D'Olier, Jr..... 783,744
Lamp wick raiser, central draft, W. A. Penfield..... 783,799
Lamp wick tube, central draft, W. A. Penfield..... 783,798
Lantern, F. D. Spear..... 783,707
Lath-making machine, R. K. Gregory..... 783,946
Lathe, N. D. Chard..... 783,680
Leaf holder, M. E. Spielman..... 783,906
Leather and producing same, patent, B. B. Goldsmith..... 783,828
Leather cutting machine, J. W. Kennington..... 783,725
Leather, producing casts, O. F. Feix..... 783,691
Leg, folding, E. P. McKenna..... 783,456

Columbia 35-40 H. P. Touring Car. Columbia Mark XLV 35-40 H. P. Gasoline Cars. A SURPLUS OF MATERIAL FOR EVERY STRAIN, BUT NO excess of material where it is not needed. Every part and piece of chassis from selected stock subjected to the most thorough mechanical and laboratory tests, so that parts that most frequently break in cars of ordinary construction—axles, frame, springs, casings, transmission, etc., are made unbreakable under any stress of normal use, however severe. Exclusive features of unequalled merit are: New carburetor which positively maintains a correct explosive mixture; new system of spark and throttle control with ball joint connections from levers mounted on non-revolving head within the steering wheel; new method of releasing compression in starting; new steering mechanism and other improvements adding to efficiency of the motor and ease of control and care taking. COLUMBIA supremacy in body designs and furnishings has never been questioned. We supply the Mark XLV Chassis with the following styles of bodies: Standard Double Side Entrance Tonneau, \$4,000; Royal Victoria, \$5,000; Double Victoria, \$5,000; Landalet, \$5,500; Limousine, \$5,500. Each pattern reaches the limit of elegance and sumptuous appointment. Catalog of Columbia 35-40 & 18 H. P. Gasoline Cars will be sent on request. Also special catalogues of Columbia Electric Carriages and Columbia Electric Commercial Vehicles. ELECTRIC VEHICLE COMPANY

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Shaft key, G. A. Stahl.....	783,762
Sharpener for cutters of bread-slicing machines, G. Root.....	783,464
Sheet metal slitting machine, C. J. W. Hayes.....	783,951
Shelf, plant window, G. W. Curtis.....	783,622
Shirt waist, M. L. Carr.....	783,421
Shoe fastener, A. J. Harlan.....	783,635
Shoes, etc., device for applying sock linings to, G. F. Dunn.....	783,745
Shutter worker, D. M. Coiner.....	783,857
Sight-feed lubricator, W. E. Bryant et al.....	783,718
Skate blade toe protector, T. W. Bryant.....	783,417
Sled brake attachment, G. P. Sampson.....	783,467
Sleigh, Johnson & Pearson.....	783,437
Slicer, bread, G. Root.....	783,465
Smelting furnace, M. Murphy.....	783,535
Smoke consumer, M. Doyle.....	783,998
Soldering machine horn support, O. J. Johnson.....	783,789
Sound records, production of quasi original, Capps & Emerson.....	783,420
Sound reproducing machines, speed and time regulating device for use upon, E. B. Finch.....	783,512
Speaking tube or telephone mouthpiece, W. R. Kimball.....	783,440
Speed indicator for automobiles, etc., C. Caille.....	783,679
Spindle bobbin clutching means, rotatable, W. E. Allen.....	783,664
Spindle bobbin clutching means, rotatable, Knight & McCullough.....	783,698
Spinning ring, J. R. Coe.....	783,681
Spring seat, J. Werner.....	783,488
Springwork, J. A. Staples.....	783,596
Sputum cup and holder or container therefor, Meinecke & Hogan.....	783,971
Stairway, movable, W. J. Wright.....	783,769
Stalk cutter, T. J. Bradley.....	783,674
Static machine revolving plate, B. E. Baker.....	783,666
Steam generator, G. D. Cooper.....	783,617
Steam trap, J. H. Taylor.....	783,910
Stilt, W. J. Turnbull.....	783,654
Stone mold, artificial, Clayton & Johnson.....	783,820
Stone or brick, manufacturing, A. L. Munson.....	783,534
Store, gas, H. Niemceczek.....	83,886
Store protector, W. Leininger.....	783,873
Striking mechanism, A. A. Caille.....	783,677
Stuffing box, W. C. Norris.....	783,644
Submarine viewing apparatus, F. McMahon.....	783,730
Superheater, E. Pielock.....	783,460
Suture supporting plate, O. O. Witherbee.....	784,018
Switch contact, electric, W. C. Tregoning.....	783,652
Switch operating mechanism, electric, F. H. Gray.....	784,001
Switch turn-button, electric, E. A. La Har.....	784,006
Table leaf, extension, H. Johnson.....	783,962
Target trap, A. H. Hoffman.....	783,523
Teaching device, penmanship, F. C. Young.....	783,497
Telegony, M. Anthony.....	783,694
Telegony by electric waves, wireless, A. Blondel.....	783,923
Telephone exchange system, W. M. Davis.....	783,510
Telephone switch, A. W. Hammer.....	783,861
Telephony, E. A. Buell.....	783,419
Tension device, E. Lawson.....	783,871
Test plug for protective apparatus, F. B. Cook.....	783,995
Theater curtain operating means, E. G. Nicewaner.....	783,587
Thill coupling, E. Walter.....	783,487
Thill detach and brake, combination, H. H. Harshaw.....	783,522
Thread guide, C. H. Cowan.....	783,833
Thread point, safety, W. C. Perry.....	783,459
Threshing machine feed regulator, A. G. Critchfield.....	783,821
Idle-power apparatus, W. Guinon.....	783,860
Timepiece hair spring collet, F. R. Cunningham.....	783,621
Time recording apparatus for employes, T. J. Roberts.....	783,896
Tire, C. Miller.....	783,783
Tire attaching means, cushion, M. E. Brooke.....	783,926
Tire clamping device, pneumatic, Schweinert & Kraft.....	783,469
Tire, pneumatic, F. E. Case.....	783,720
Tire, pneumatic, A. Frey.....	783,858
Tool, combination, C. L. Porter.....	783,800
Tool, multiple bit, J. H. B. Bryan.....	783,416
Tool support, H. J. Hoegh.....	784,003
Tooth regulator, J. E. Canning.....	783,609
Towing system, H. W. Alden.....	783,663
Toy windmill, W. C. Wunder.....	783,714
Trace carrier, J. Reichert.....	783,892
Tramways, rope and bucket clip for automatic aerial wire rope, B. C. Riblet.....	783,647
Transformer, W. S. Moody.....	783,532
Transformer protection, W. S. Moody.....	783,533
Trap. See Steam trap.....	
Trick house, A. B. Griffen.....	783,831
Trolley, J. A. Norton.....	783,458
Truck bolster, car, S. P. Bush.....	783,676
Truck, monorail car balancing, H. H. Tunk.....	783,986
Trunk strap, F. A. Lyman.....	783,968
Tweezers and blackhead extractor, combined, F. J. Boehm.....	783,924
Twine holder, M. F. Ehlert.....	783,938
Typewriter carriage mechanism, J. B. Hammond.....	783,432
Typewriter desk, Lightner & Bradford.....	783,875
Typewriting machine, A. T. Brown.....	783,415
Typewriting machine, Barron & Merritt.....	783,669
Unhairing machine, W. B. Turner.....	784,017
Valve, air brake, E. F. Richardson.....	783,734
Valve, flushing, E. J. Bloom.....	783,671
Valve, gate, D. P. Henry.....	783,953
Valve, globe, J. Struben.....	783,597
Valve indicator, gate, J. C. Meloon.....	783,447
Valve mechanism, engine, C. D. Stevens.....	783,709
Valve, pressure regulating, R. P. Kipp.....	783,528
Valve, safety, A. Ashworth.....	783,407
Valve, trap back pressure, W. J. Wood.....	783,493
Vapor discharge device, adjustable, P. H. Thomas.....	783,483
Vehicle body, L. Priest.....	783,982
Vehicle brake, T. L. & T. J. Sturtevant.....	784,015
Vehicle, convertible, C. H. Stratton.....	783,650
Vehicle frame, N. T. Harrington.....	783,950
Vehicle, motor, C. Schmidt.....	783,547
Vehicle power transmitting mechanism, motor, L. W. Campbell.....	783,719
Vehicle running gear, motor, Warrington & Marmon.....	783,599
Vehicle signaling apparatus, motor, W. S. Gilnes.....	783,748
Velocipede, F. M. Thompson.....	783,912
Velocipede, railway, A. S. Reed.....	783,463
Vending machine, coin-controlled, J. L. Miller.....	783,794
Vent, beer-barrel air, M. J. Chaplin.....	783,610
Ventilating system, M. E. Cooley.....	783,616
Vessel, L. R. Moore.....	783,795
Vibrations, means for producing, B. Wolverton.....	783,768
Wagon, dump, M. C. Ernsberger.....	783,939
Wagon top box fastener, T. Dauber.....	783,623
Wall clean-out and back-vent fitting, H. J. Luff.....	783,586
Wall cooling apparatus, L. O. Brightbill.....	783,413
Wall slab, D. E. Roberts.....	783,544
Wall tie for brick and veneer structures, C. J. Schreck.....	783,470
Warp beam let off rims, guard for, Killpartnick & Taplin.....	783,841
Washing machine, N. T. Worthley.....	783,917
Washing machine motor, W. E. Wagner.....	783,656
Watch movements in their cases, means for securing, F. Chevillat.....	783,611
Water bag and fountain syringe, convertible, Gasaway & Aydelott.....	783,827
Water chute, T. Folks.....	783,425
Water elevator, J. Peterson.....	783,429
Water heating apparatus, E. W. Neu et al.....	783,457
Water meter, J. Thomson.....	783,484
Water meter, Gumz & Wingenier.....	783,485
Water of reservoirs, dams, tanks, or the like, device for drawing off the surface, T. Lydon.....	783,878
Water wheel, A. F. Sparks.....	783,761
Weighing machine feeding mechanism, Mitchell & Aiken.....	784,007
Weight verifier, A. A. Caille.....	783,993
Welding machine, electric chain, A. F. Rietzel.....	783,543
Wheel. See Water wheel.....	
Wheel sizing device, A. A. Zimmerman.....	783,562

### Expenses for January



Model F Touring Car \$950

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**Model E—Light, stylish, powerful Runabout, divided seat, \$750.**  
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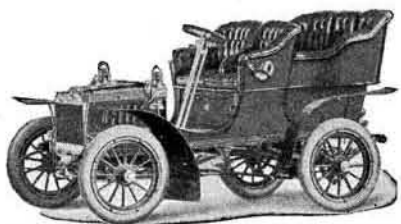
The Oldsmobile Touring Car with its graceful lines and abundance of power yields instant obedience to the touch of the driver and unites comfort with wonderful speed and endurance. Its 20 H. P. two-cylinder motor meets every requirement with entire freedom from the complications of the four-cylinder cars. Inexpensive to operate. Tire expense reduced to the lowest point. Speed from 6 to 40 miles an hour.

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Oldsmobile Touring Runabout,	\$750	Oldsmobile Light Delivery Car,	\$1000
Oldsmobile Light Tonneau Car,	\$950	Oldsmobile Heavy Delivery Car,	\$2000

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# Autocar Type VIII \$1400



## A Wonderful Value

Type VIII Autocar at \$1400 represents a wonderful automobile value. This type is the foundation of the Autocar's enviable reputation.

It is a car built upon honor throughout. There is nothing experimental about it—nothing uncertain in its construction. During 1904 Type VIII was tested on all sorts of American roads—under all kinds of conditions. It has proved its reliability and efficiency so well as to put Autocar Type VIII in the very front of its class.

Last season Type VIII was sold for \$1700 and was considered an unsurpassed value. The price of Type VIII is now \$1400 because, having built this model for so long we can now build it more economically. For the man who wants a thoroughly reliable four-passenger car at a moderate price Type VIII at \$1400 is his opportunity.

### SPECIFICATIONS:

Horizontal two cylinder opposed engine—no noticeable vibration. Twelve actual horse power. Oiled automatically. Water cooled.

Transmission, sliding gear type. Three speeds forward and a reverse. Ball bearing, shaft drive. Nongreasy, gritty chain. Front and rear construction has ball bearings throughout. Gasoline tank holds 10 gallons—sufficient on good roads for 200 miles.

Tonneau is removable. Front seat divided. Engine and transmission case are accessible from above without disturbing body. Catalogue giving full description of Type VIII, Type X Runabout and Type XI Four Cylinder Car, with dealer's name sent free upon request.

THE AUTOCAR COMPANY, Ardmore, Pa. Member Association Licensed Automobile Manufacturers.

Table listing various mechanical items and their prices, such as Windmill and pump coupling, S. H. Guthrie 783,632; Window, C. D. Taber 783,555; Window or door stop, H. J. Weeks 783,659; Window screen and weather strip, combined, H. Eagon 783,936; Wire cloth on door or window frames, machine for stretching, Hoffman & Gosch 783,766; Wire fabrics, loom for weaving woven, Haideker & Berthel 783,832; Wire stretcher, C. Neal 783,842; Wire twisting mechanism, E. H. Vogel 783,808; Wood cutting machine, R. J. Lines 783,877; Wrench, H. Sasse 783,468; Wrench, Williams & Stultz 783,492; Wrench, H. D. Anpke 783,813; Wrench, C. M. Benson 783,814; Wrench, J. Munroe 783,845; Yoke center, neck, J. C. Harpham 783,520.

### DESIGNS.

Table listing designs and their prices, such as Brush back, W. C. Codman 37,349; Closet bowl, W. H. Lloyd 37,354; Glass vessel, H. Siegel 37,353; Mirror back, W. C. Codman 37,351; Plate or dish, W. A. Pickard 37,352; Sandal, S. Berthard 37,355; Stone, A. A. Specht 37,356; Type, font of, W. Bradley 37,357; Type, font of printing, A. S. Orchard 37,357; Wall covering, G. A. Haslup 37,358.

### TRADE MARKS.

Table listing trade marks and their prices, such as Alfalfa meal, ground, Stockton Meal Alfalfa Co. 44,208; Antiseptic solution, F. W. Woelz & Bro. 44,242; Boots and shoes, leather, Barton Brothers 44,235; Brooms, D. Pink 44,238; Building materials, certain named, Joseph Robinson & Co. 44,262; Carpet sweeper, Bissell Carpet Sweeper Co. 44,235; Cleaning by air currents, plants, implements, and machines for, Sanitary Devices Manufacturing Co. 44,271; Coal, W. J. Hamilton Coal Co. 44,269; Compasses, ruling pens, and dividers, G. Schoener 44,234; Cough drops, Symonds & Allison Co. 44,263; Hair wash, G. Lohse 44,264; Macaroni, spaghetti, vermicelli, and noodles, Anger Baking Co. 44,237; Medical compounds, certain named, C. Chanteau 44,245; Padlocks, W. Bingham Co. 44,257; Paper and typewriter ribbons, carbon, Wyckoff, Semans & Benedict 44,233; Pharmaceutical preparations for use in cases of seasickness, K. Weinreb 44,248; Pharmaceutical products, certain named, Society of Chemical Industry in Basle 44,249; Pharmaceutical product, certain named, Society of Chemical Industry in Basle 44,251; Pomatum, nail, G. Lohse 44,267; Receptacles, certain named, Akron Mfg. Co. 44,256; Remedies for certain named diseases, Whisquinia Co. 44,247; Remedy for asthma, Taft's Asthmaline Co. 44,246; Rubber hose, belting, and packing, Mechanical Rubber Co. 44,261; Shirts, Chatham Shirt Co. 44,236; Skin food, E. A. Rix 44,240; Soap, G. Lohse 44,265; Taps, dies, and screw plates, Wells Bros. Co. 44,260; Tonic and medicines for neurasthenia, general, C. Chanteau 44,244; Tonic beverage, soda water, V. Policastro 44,241; Tonic, kidney, liver, stomach, and blood, Vim Medicine Co. 44,243; Tube expanders and cutters, G. Wiedeke & Co. 44,259; Varnish and paint removers, A. A. Eberson 44,253; Vehicle wheels and devices to secure resilient tires to vehicle wheels, metal rims for, Flisk Rubber Co. 44,258; Veterinary remedies, certain named, Coltstet Snake Root Co. 44,252; Wall finish, cold water, Murale Company 44,254.

### LABELS.

Table listing labels and their prices, such as "Beecham Pills," for pills, M. Jacobs 11,911; "Blue Label Ideal," for beer, Alabama Brewing Co. 11,913; "Cox's World Wonder Worker," for liniment, W. H. Cox 11,910; "Cream Rolled Oats," for rolled oats, Albers Bros. Milling Co. 11,919; "F. J. W. New York Rye," for whisky, F. J. Weidner 11,916; "Fancy Flaked Rolled Oats," for rolled oats, Albers Bros. Milling Co. 11,920; "Glockl Doppel Brau," for beer, D. Benjamin 11,915; "Index Suitings," for suitings, Battelle, Hurd & Co. 11,921; "John Bramm's Lunyfoot Snuff," for snuff, S. Scharlin & Son 11,912; "Napper Tandy Pure Rye Whiskey," for whisky, J. J. Keenan & Co. 11,917; "Novelty Paper Outfits," for materials for making paper flowers, etc., J. A. Whaley 11,922; "Nurnberger Doppel Brau," for beer, D. Benjamin 11,914; "Poudre Dentifrice," for tooth powder, J. C. Walker 11,906; "Ruberoid Red Roofing," for roofing, Standard Paint Co. 11,924; "Ruberoid Yellow Roofing," for roofing, Standard Paint Co. 11,925; "Slazenger," for tennis rackets, F. L. Slazenger 11,923; "Tropical Fruit Chocolates," for candy, S. A. Gressman 11,918; "Whisquinia," for medicine, Whisquinia Co. 11,909; "Youthful Face Cream," for face cream, L. Franke 11,907; "Youthful Female Regulator," for medicine, L. Franke 11,908.

### PRINTS.

Table listing prints and their prices, such as "Brewer's B. L. T. Blood & Liver Tonic," for medicine, T. E. Brewer 1,232; "Brewer's Honduras Compound," for medicine, T. E. Brewer 1,231; "Clothes of the Spring and Summer Season" for clothing, David Adler & Sons Clothing Co. 1,224; "Combination Waist and Skirt Model 237," for combination waist and skirt, Lincoln Bartlett Company 1,228; "Housekeepers X-Radium Cooking Utensils," for cooking ware and utensils, X-Radium Cooking Utensil Co. 1,233; "New then—Who said Biscuits," for flour, Washburn Crosby Co. 1,229; "Spring Apparel, 1905," for spring apparel, Meyer-Bath Co. 1,225; "Spring Apparel 1905," for spring apparel, W. C. Both 1,227; "Strictly High Grade Sausage," for sausage, Gugler Lithographic Co. 1,230.

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