# 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 asearly as Thursday morning to appear in next issue

Unless you open a barrel of apples at the right end they will be found getting steadily worse as you reach the bottom. Not so with a box of Esterbrook's Steel Pens, which are of uniformly good quality throughout. Special Emery Granding Machinery, Automatic Knife Grinders, Improved Stove Plate Grinders, Saw Gummers, etc. Write for cuts, descriptions, and prices.

Lehigh Valley Emery Wheel Co., Lehighton, Pa. TREASURY DEPARTMENT, OFFICE OF ENGINEER, WASHINGTON. December 6, 1882.

Messrs. H. W. Johns M'f's Co., 87 Maiden Lane, N. Y. DEAR SIRS: The steam pipe covering applied by you in this department eighteen months ago has proved very satisfactory, not only as a non-conductor, but for its convenience in being removed and replaced without any Yours, etc. loss or injury.

THOS. A. GIBSON, Engineer.

H. N. Veefkind, Agriculturist and Dairyman, near Arnhem, Holland, will arrive in New York during the month of January, 1883, with a, by him. newly invented Hand Butter Churn, which excels all existing churns in the following points: Simplicity of construction, cheapness, easy operation, durability, and minimum of power required. Parties desiring to enter into negotiations for rights of single States or the United States will please communicate with the manager of the Nieuws on Handels Courant, No. 25 South William Street, New Yorl

Woodworking Michiy. Bentel, Margedant & Co., p.413 Drop Forgings. Billings & Spencer Co. See adv., p. 413. Steam Hammers, Improved Hydraulic Jacks, and Tube Expanders. R. Dudgeon. 24 Columbia St., New York.

Diamond Drills, J. Dickinson, 64 Nassau St., N. Y.

50,000 Emerson's Hand Book of Saws. New Edition. Free. Address Emerson, Smith & Co., Beaver Falls, Pa. For Pat. Safety Elevators, Hoisting Engines. Friction

For Heavy Punches, etc., see illustrated advertise ment of Hilles & Jones, on page 414.

Barrel, Key, Hogshead, Stave Mach'y. See adv. p.414. Magic Lanterns and Stereopticons of all kinds and prices. Views illustrating every subject for public exhibitions, Sunday schools, colleges, and home entertain ment. 116 page illustrated catalogue free. McAllister Manufacturing Optician, 49 Nassau St., New York.

Sewing Machines and Gun Machinery in Variety The Pratt & Whitney Co., Hartford, Conn

Mineral Lands Prospected, Artesian Wells Bored, by Pa. Diamond Drill Co. Box 423. Pottsville, Pa. See p. 412. C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 414.

For best low price Planer and Matcher and latest improved Sash, Door, and Blin't Machinery, Send for catalogue to Rowley & Hermance, Williamsport, Pa.

The Porter-Allen High Speed Steam Engine. South work Foundry & Mach. Co.,430 Washington Ave., Phil.Pa. Common Sense Dry Kiln. Adapted to drying of all material where kiln, etc., drying houses are used. See p.414. 4 to 40 H. P. Steam Engines. See adv. p. 412.

"How to Keep Boilers Clean." Book sent free by James F. Hotchkiss, 84 John St., New York

Scientific Books. See page 396. Catalogues free.

E. & F. N. Spon, 44 Murray Street, N. Y. Lubricator. See advt., Detroit Lubricator Co., p. 398, See New American File Co.'s Advertisement, p. 398.

Steam Pumps. See adv. Smith, Vaile & Co., p. 398. Engines, 10 to 50 horse power, complete, with governor, \$250 to \$550. Satisfaction guaranteed. More than seven hundred in use. For circular address Heald & Morris (Drawer 127), Baldwinsville, N. Y.

Brass Finishers' Turret Lathes, 131/2 x 4, \$165. Lodge, Barker & Co., 189 Pearl St., Cincinnati, O.

Important to Inventors. - The Anglo-American Patent Development Company, Limited, 28 Southampton Buildings, London, England, Authorized Capital \$250.000, is prepared to receive applications from American Invent ors to develop (by manufacturing or otherwise) their inventions in Europe. Full particulars addressed as above by Registered Letter to be forwarded, with \$5.00 U. S Currency, to cover expense of investigation, otherwise applications cannot be considered. Inclose stamp for Prospectus of Company to Messrs. Knauth. Nachod & Kuhne. Bankers, New York.

Thomas Camp, of Covington, Georgia, General Agent for the sale of Portable Steam Engines. has a trade of \$250,000 per annum in that State. Manufacturers will find this the best medium in the South through which to sell such goods. None but first-class engines sold Best of reference given and required.

Curtis Regulator, Float, and Expansion Trap. See p.364 Woodwork'g Mach'y. Rollstone Mach. Co. Adv., p. 382.

The Sweetland Chuck. See illus. adv., p. 382. Knives for Woodworking Machinery, Bookbinders, and Paper Mills. Taylor, Stiles & Co., Riegelsville, N. J.

Cope & Maxwell M'f'g Co.'s Pump adv., page 366.

Wanted .- Patented articles or machinery to make and introduce. Gaynor & Fitzgerald, New Haven. Conn. To stop leaks in Boiler Tubes use Quinn's Patent Ferrules. Address S. M. Co., So. Newmarket, N. H.

Latest Improved Diamond Drills. Send for circular to M. C. Bullock Mfg. Co., 80 to 88 Market St., Chicago, Ill. To make Violins, write James Roblee, Syracuse, N. Y.

Water purified for all purposes, from household supplies to those of largest cities, by the improved filter manufactured by the Newark Filtering Co., 177 Commerce St., Newark, N. J.

Assays and Analyses of ores and all commercial pro ducts. Advice given and investigations made in all branches of chemical industry. Send for circular. N. Y. Assay Laboratory, 40 Broadway, New York.

Sheet and cast brass goods, experimental tools, and fine machinery. Estimates given when models are furnished. H. C. Goodrich, 66 to 72 Ogden Place, Chicago.

Guild & Garrison's Steam Pump Works, Brooklyn, N. Y. Steam Pumping Machinery of every descrip-

Improved Skinner Portable Engines. Erie, Pa 25" Lathes of the best design. G. A. Ohl & Co., East Newark, N. J.

Combination Roll and Rubber Co., 68 Warren street N. Y. Wringer Rolls and Moulded Goods Specialties. First Class Engine Lathes, 20 inch swing, 8 foot bed,

now ready. F.C. & A.E. Rowland, New Haven, Conn. Breweries, etc. Pictet Artificial Ice Co. (Limited), 142

Greenwich Street. P. O. Box 3083, New York city. Steel Stamps and Pattern Letters. The best made. J. F.W.Dorman, 21 German St., Baltimore. Catalogue free. For Power & Economy, A)cott's Turbine, Mt.Holly, N. J.

Presses, Dies. Tools for working Sheet Metals, etc. Fruitand other (an Yools. E. W. Bliss, Brooklyn, N. Y. Split Pulleys at low prices, and of same strength and appearance as Whole Pulleys. Yocom & Son's Shafting Works, Drinker St., Philadelphia. Pa.

Supplement Catalogue.-Persons in pursuit of information on any special engineering mechanical, or scientific subject. can have catalogue of contents of the Sci-ENTIFIC AMERICAN SUPPLEMENT sent to them free. The Supplement contains lengthy articles embracing the whole range of engineering, mechanics, and physical science. Address Munn & Co., Publishers, New York.

Machinery for Light Manufacturing, on hand and built to order. E. E. Garvin & Co., 139 Center St., N. Y. Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J.

### NEW BOOKS AND PUBLICATIONS.

FORTY YEARS IN PHRENOLOGY. By Nelson Sizer. New York: Fowler & Wells, 12mo, cloth, pp. 413, \$1.50.

Mr. Sizer has brought together from the notes and recollections of his long service as a phrenological lecturer and examiner two or three hundred anecdotes illustrative of his varied experiences. Many of them Clutch Pulleys, Cut-off Coupling, see Frisbie's ad. p. 414. are amusing, and all of them are intended to enforce Gould & Eberhardt's Machinists' Tools. See adv.,p. 414. some social or educational lesson, or to demonstrate the value of phrenology as a guide in the affairs of life. A brief review of the principles of phrenology are given at

> ELECTRICITY. Revised and extended by James Blyth. London and Edinburgh: W. & R. Chambers. 3s. 6d.

> The additions to this new edition of Dr. Ferguson's well known work are intended to cover the more important recent discoveries, inventions, and practical applications of electricity. The recently adopted units of electrical measurement are given and explained, and also the leading mathematical formulæ, so far as can be done without recourse to the higher mathematics.

> TRAITS OF REPRESENTATIVE MEN. By George W. Bungay. New York: Fowler & Wells.

The thirty or more representative men whose characteristics and achievements are here very sketchily presented include prominent Americans chiefly, either living or recently dead. For each character there is given a characterless portrait. Some of the engravings were originally good, but have been abused in the printing; the rest were so cut as to make them caricatures rather than of likenesses, and bad printing has intensifled their wooden ugliness

Charles Darwin, London: Macmillan & Co. 75c.

This latest addition to the Nature Series embrace the memorial notices of Darwin first printed in "Nature." Professor Huxley furnishes an appreciative introductory notice of Darwin's life and work. Dr. Romanes dis cusses his life and character. Dr. Geikie reviews his work in its bearing on geology: Thistleton Dyer his work in botany; Dr. Romaines his work in zoology and in psychology. An admirable portrait of Darwin, on steel, serves as frontispiece.

Heroes of Science. By Prof. P. Martin Duncan. London: Society for Promoting Christian Knowledge. New York: E. & J. B. Young & Co. 12mo. \$1,20.

Evidently written to order, and remarkable rather for avoiding than for dwelling upon those acts and opinions of the characters named that showed any heroic quality. And there is a careful omission of all essentially modern work in the sciences--boteny, zoology and geology-the earlier development of which is reviewed. The heroic period of botany appears to have ended with De Candolle, of zoology with Cuvier, and of geology with the earlier work of Lyell. Nevertheless, so far as it goes, the book is readable, and would make a valuable addition to any Sunday-school library.

THE COMPLETE GUIDE TO SILK CULTURE. By L. Capsadell, New York: W. B. Smith & Co. 25 cents.

ho think o Permanent Exposition .- Inventors' Institute, Cooper of silk culture will find this a handy and trustworthy Union, N.Y. City. Everyfacility for exhibition of machin- guide book. It is plain, clear, straightforward, enery, merchandise, and inventions. Send for particulars. tirely practical, and commendably free from extravagant promises of possible results. The author is an enthusi-For Mill Mach'y & Mill Furnishing, see illus, adv. p.364. astic promoter of the new industry, but, while furnishing specific directions as to the treatment of silk worms and their products, he is content to rest his case there, leaving the financial inducements to engage in the work to be offered by the publishers in the advertising pages. In this, as in every other industry, the beginner should bear in mind that experience and practical skill have to be paid for, and that every new industry is apt to be at tended by many failures, losses, and disappointments.

Monaco. United States Game Publishing Company, Rochester, N. Y.: American News Company, Sole Agents.

This new game is played somewhat like checkers The pieces are numbered, and the value of each when taken is the product of its number by the number of its place in the column of the captured. It is fairly interesting as a game, and may be made useful in giving young people a thorough, as well as diverting drill in simple multiplication and addition.

in this country on the art of still hunting, or deer stalkunderstands the subject he treats. He has made a very entertaining and intensely practical book. Numbers of flight. men who potter away three months in a year in the inanities of watering places, when they might enjoy a Ice Making Machines and Machines for Cooling month or two of exhilarating sport and healtaful exercise in the haunts of the antlered monarchs of the forest, want such a book to screw up their courage to go forth and hunt. It teaches how to hunt and where to hunt, sense must be the teacher.

> Practical Microscopy. By George E. Davis. Illustrated. Philadelphia: J. B. Lippincott & Co.

Though this excellent treatise has reached a second edition, it is substantially a new book to American microscopists. It is thoroughly practical and profusely illustrated. The first half of the book contains little that is new, yet the chapters on staining and on reagents and recipes will be found suggestive and very useful. The author's process for the double staining of vegetable sections is particularly good, and gives beautifu! results. The chapters on micro-photography are also excellent, being well illustrated and full of practical de-The test of every day use justifies a hearty recommendation of the work to the favor of micro-

#### AMERICAN FOUNDRY PRACTICE. By Thos. D. West. New York: John Wiley & Sons.

Embodies the series of practical articles on moulding ontributed by the author to the American Machinist during the past two years, describing American methods in moulding with loam, dry sand, and green sand, the management of cupolas, and the melting of iron. Mr. West believes that to master his trade the young moulder needs something more than the brute force required for ramming sand; indeed, that there is no trade that calls for greater intelligence, skill, and care, than that of the rooulder. The book is full of instruction for beginners and contains many facts and suggestions that seem By Robert M. Ferguson. likely to be of use to foundrymen of longer practice.

GYMNASTICS OF THE VOICE. By Oscar Guttmann. Albany, N. Y.: Edgar S. Werner, 12mo, cloth, \$1.25.

Professor Guttmann's treatise, which has been before the English and German world for twenty years and more, has now been fully illustrated and carefully revised, materially increasing its already eminent value. Its four parts treats respectively of the anatomy of the elements of speech and song, and the art of breathing easily and effectively when speaking and singing. The work shows not only how to train the vocal organs so as to attain strength, purity, and beauty of tone, but gives abundant anatomical, physiological, and hygienic reasons for the modes of training which he advises.



HINTS TO CORRESPONDENTS. No attention will be paid to communications unless accompanied with the full name and address of the writer.

Names and addresses of correspondents will not be given to inquirers.

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to name the date of the paper and the page, or the numbe of the question.

Correspondents whose inquiries do not appear after a reasonable time should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them.

Persons desiring special information which is purely of a personal character, and not of general interest, should remit from \$1 to \$5, according to the subject as we cannot be expected to spend time and labor to obtain such information without remuneration Any numbers of the SCIENTIFIC AMERICAN SUPPLIE-

MENT referred to in these columns may be had at this office. Price 10 cents each.

Correspondents sending samples of minerals, etc. for examination, should becareful to distinctly mark or label their specimens so as to avoid error in their identi-

(1) P. F. M. writes: Please decide a discussion between two friends of mine. A says that if a bird tell me of, better for the purpose than that I buy at the sits on a telegraph wire while in operation, it will receive store? A For lacquering bright brass work, use for an electrical shock more or less intense, according to your lacquer half a pint 95 per cent alcohol; one ounce the state of the atmosphere and the strength of the cure seed lac, or, if not to be had, the same quantity clear rent passing through the wire. B says that the bird will shellac; half a drachm of dragon's blood; half a drachm receive no shock at all, and to prove his assertion states turmeric; put all in a bottle, cork tight, and shake up that it is known in physics that a current always follows often for a few days, then let it settle for a few days the best conductor, and that a body through which and pour off the clear part for use. It is well to filter it. a charge is to be passed must form part of the circuit, Use a fine fiat camel's hair brush of a size to work consequently, he concludes that in the present case the quickly with (say three-fourths of an inch to one inch bird will receive no shock, because it is a worse conduc- wide). tor than the wire, and because he thinks it forms no part, spirit lamp to about the temperature of 150°, and varnish of the circuit. A. without contradicting the alleged physical principles, argues that the living animal body is a good conductor of electricity, and that the moment a bird sits on a wire through which a current is passing it forms part of that wire, and consequently part of the circuit. A also brings in, to strengthen his assertion, the known physical fact (which he quotes from Ganot's Physics) that, when two conducting bodies are in contact, one of which is electrified and the other in its natural state, the electricity is comparted between the two in a relation proportional to the surfaces of the bodies. Finally, A, to prove entirely his assertion, refers to the fact that there are always dead birds beneath the telegraph wires. I decided the discussion in favor of A, but offered them both to get a decision from you, and counteract this tendency.

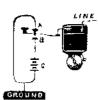
THE STILL HUNTER. By T. S. Van Dyke. expect to have it soon. A. Undoubtedly a small por-Published by Fords, Howard & Hurlbert, tion of the current passes through the bird, but not sur-New York. Price \$2.00. This is unquestionably the best book ever published | a comparatively poor conductor, forms a shunt of high resistence to so much of the wire as is between his ing, and is written by one who evidently thoroughly claws. The dead birds found in the vicinity of tele\_ graph wires are killed by striking the wires during rapid

(2) E. F. L. asks: 1. How fast can an ordinary engine be run without danger? Will it do to speed them up to 800 feet per minute? A. There are many engines running to 800 feet per minute, but they must be carefully fitted and well balanced. 2. What would be the difference in power of a 6 x 12 engine running at 200 giving directions where they are needed, and wisely in- revolutions and 400 revolutions, with the same amount dicating the circomstances in which a man's common of steam, say 90 pounds? A. If you double the speed with the same pressure, the power will be doubled. 3. Is there any rule for the gearing up of machinery? For instance. I want to run a saw from a countershaft: does it matter how large or small the different pulleys are, so I get the desired speed? A. The larger the pulleys, the narrower belt can be used. 4. Is there a book on the planning of machinery, so as to get the most power, and where can it be had? A. There is no one book; the information is scattered through many books. 5 I see there was an engine run on some road last May by naphtha; what has become of it? Is it a success, and if so, why are they not put on the market? A. We believe that no naphtha engine has yet proved a success practically.

> (3) S. S. asks: What is the best wav of tinning malleable iron bright? I have seen some castings that were bright and smooth, others that were dark and rough. Please inform me of a method by which I can tin bright and smooth without extra work of polishing? A. You cannot tin malleable iron without cleaning at thoroughly in dilute muriatic acid; rinse in hot water, dip in bath of hot muriate of zinc and sal ammoniac, then cautiously in a bath of melted tin.

(4) N. T. C. O. asks: 1. In what ratio does the diameter of copper wire stand to the force (in horse power) transmitted through it from a dynamo machine? A. This depends, first, upon the kind of current used, a current of high potential not requiring as large a conductor as a current of low potential, and, second, upon the distance through which the power is to be transmitted. 2. What is the practical limit of power (in horse power) capable of being generated by a dynamo? A. The limit, if there is one, has not yet been reached. 3. What is the actual percentage of useful power transmitted at a distance, say of a hundred miles from dynamo, or general ratio of force and distance? A. See article "On the Transmission of Work to a Great Distance on an Ordinary Telegraph Wire," p. 350, current volume SCIENTI-FIC AMERICAN. 4. Is it practically possible to transmit, say, two hundred horse power generated by a dynamo respiratory and vocal organs, the activity of these or- to a distance of one hundred or more miles? A. Yes gans in producing voice, the correct utterance of the 5. What may be the approximate (primary and running) cost of an engine capable of producing the effect stated in question 4? A. Correspond with some of the prominent manufacturers of dynamos.

> (5) C. E. E. W. writes: I notice in your issue of Nov. 25, 1882. von give in answer to question of W. P. S. (No. 1,) in regard to arrangement of two call bells on one wire with open circuit batteries, a plan in which one bell is cut out when the signal is given. Don't you think the arrangement shown in the sketch would be much more satisfactory? For by the arrangement you describe



you could not tell whether the line was in working or der or not except by inspection, whereas by this plan the bell will ring when the key is pressed down, in all cases, except when the line is out of order, when you would know that there was not any signal made at distant station, and that the

line needed repairs. I should think W. P. S. would get more satisfaction from this arrangement. [The plan suggested by our correspondent is good for single stroke bells, and may be adopted where the sound of the bell at the transmitting end of the wire is not objectionable. The extra bell increases the resistance of the circuit. but in most cases this is of no account,-ED.]

(6) J. A. writes: Will you kindly inform me, through your Notes and Queries, how I can successfully finish small brass articles, such as tubing and thin rods? I am making a few fancy things just for home decoration, and I succeed very well until I come to the lacquering, and then, no matter how much pains I have taken to polish the brass, it is sure to look dirty after it is lacquered. Now, I want to get that beautiful golden look that you see on lamp fittings, etc. Is it possible for me to do it with ordinary lacquer and a common kitchen stove, or is there any lacquer you can Warm your finished work in the oven or over a as quickly as possible, avoiding going over any part a second time. If upon a preliminary trial the lacquer appears too thick or waxy, dilute with 95 per cent alcohol until you are suited.

(7): N. C. S. writes: One of the receipts for making the gelatine printing pad includes "a little soap." How much soap to a pound of gelatine, and what kind of soap is required? A. Use ordinary hard soap. 1 ounce to 1 pound.

(8) D. L. F. asks: What will prevent glycerine from absorbing moisture from the air? Can some kind of oil be mixed with it for this purpose? A. Nothing; no oil can be mixed with it that would

### COMMUNICATIONS RECEIVED.

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| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart. Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell &  | 268,879<br>268,976<br>269,093<br>268,788<br>268,781<br>268,788<br>269,102   |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart. Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell &  | 268,879<br>268,976<br>269,093<br>268,788<br>268,781<br>268,788<br>269,102   |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, tace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor   | 268,879<br>268,976<br>269,093<br>268,788<br>268,781<br>268,788<br>269,102   |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.   | 268,879<br>268,976<br>269,093<br>268,788<br>268,781<br>268,788<br>269,102<br>269,018  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart. Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.   | 268,879<br>268,976<br>269,093<br>268,789<br>268,781<br>268,788<br>269,102<br>269,018  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, tace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.   | 268,879<br>268,976<br>269,093<br>268,789<br>268,781<br>268,788<br>269,102<br>269,018  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Cande moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H.  | 268,879<br>268,976<br>269,093<br>268,788<br>268,781<br>268,788<br>269,102<br>269,018<br>269,005<br>268,888  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart. Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad. Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway. Buckle, suspender, S. A. Bostwick Buckle, trace, G. B. Northrup. Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner. Butter jar. Carey & Cavanaugh. Candle moulds, air distributer for, W. H. Haney. Cane and picnic chair, combination walking, H. M. Houston.   | 268,879<br>268,976<br>269,093<br>268,788<br>268,781<br>268,788<br>269,102<br>269,018<br>269,005<br>268,888  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart. Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H. M. Houston.  Canes, umbrella handles, etc., attachment to, F.   | 268,879<br>268,976<br>269,093<br>268,788<br>268,788<br>269,102<br>269,005<br>269,005<br>268,888<br>268,897  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H. M. Houston  Canes, umbrella handles, etc., attachment to, F. G. & B. C. Stidger.  | 268,879 268,976 269,093 268,788 268,788 269,102 269,018 269,005 268,888 268,897 268,838   |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H.  M. Houston  Canes, umbrella handles, etc., attachment to, F.  G. & B. C. Stidger.  Capsule cutting machine, H. H. Taylor.  | 268,879 268,976 269,003 268,781 268,781 269,102 269,102 269,005 268,888 268,897   |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart   | 268,879 268,976 269,093 268,781 268,788 269,102 269,018 269,005 268,888 269,61 268,888 268,961 268,961  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H.  M. Houston  Canes, umbrella handles, etc., attachment to, F.  G. & B. C. Stidger.  Capsule cutting machine, H. H. Taylor.  | 268,879 268,976 269,093 268,781 268,788 269,102 269,018 269,005 268,888 269,61 268,888 268,961 268,961  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket. Brake. See Car brake. Brick die, G. F. Earhart   | 268,879 268,976 269,093 268,758 268,781 268,781 269,005 269,018 269,005 268,888 268,897 268,838 268,961 269,061   |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H. M. Houston.  Canes, umbrella handles, etc., attachment to, F. G. & B. C. Stidger.  Capsule cutting machine, H. H. Taylor.  Car brake, E. H. Brown.  Car brake, E. H. Brown.   | 268,879 268,976 269,093 268,781 268,788 269,102 269,018 269,005 268,888 268,961 269,1061 268,988 268,998 269,106  |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart   | 268,879 268,976 269,093 268,788 268,781 269,102 269,005 268,888 269,005 268,897 268,838 268,961 269,161 268,998 269,103 269,103                         |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, tace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H. M. Houston.  Canes, umbrella handles, etc., attachment to, F. G. & B. C. Stidger  Capsule cutting machine, H. H. Taylor.  Car attachment. street, C. De Staebler.  Car brake, E. H. Brown.  Car brake, E. H. Brown.  Car brake, H. F. Notbohm.  Car brake, E. H. Brown.  Car brake, H. F. Notbohm.  Car carcupling, J. Geides.        | 268,879 268,976 269,093 268,758 268,781 268,781 269,005 269,018 269,005 268,888 268,997 268,838 268,961 268,998 269,103 269,103 269,142 268,789         |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Cande moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination waking, H. M. Houston  Canes, umbrella handles, etc., attachment to, F. G. & B. C. Stidger  Capsule cutting machine, H. H. Taylor.  Car attachment. street, C. De Staebler.  Car brake, E. H. Brown.  Car brake, E. H. Brown.  Car brake, E. H. Brown.  Car coupling, J. Geddes.  Car coupling, E. N. Gifford. | 268,879 268,976 269,093 268,781 268,781 269,005 269,018 269,005 268,888 268,961 269,161 268,969 269,103 269,103 269,103 269,103                         |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Candle moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination walking, H.  M. Houston.  Canes, umbrella handles, etc., attachment to, F.  G. & B. C. Stidger.  Capsule cutting machine, H. H. Taylor.  Car brake, E. H. Brown.  Car brake, E. H. Brown.  Car brake, automatic, C. Van Dusen.  Car coupling, J. Geides.  Car coupling, F. W. Kelly.                          | 268,879 268,976 269,003 268,788 268,781 269,102 269,005 268,888 268,907 268,838 268,961 269,161 268,998 269,163 269,163 269,163 269,163 269,163 269,163 |
| Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart.  Brick, method of and apparatus for making, J. C. Anderson.  Bridge guard, swing, G. E. Mörstad.  Brush boring machine, M. G. Imbach.  Buckle, harness, F. Conway.  Buckle, suspender, S. A. Bostwick  Buckle, trace, G. B. Northrup.  Buildings, protecting apparatus for, Crowell & Dawson.  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh.  Cande moulds, air distributer for, W. H. Haney.  Cane and picnic chair, combination waking, H. M. Houston  Canes, umbrella handles, etc., attachment to, F. G. & B. C. Stidger  Capsule cutting machine, H. H. Taylor.  Car attachment. street, C. De Staebler.  Car brake, E. H. Brown.  Car brake, E. H. Brown.  Car brake, E. H. Brown.  Car coupling, J. Geddes.  Car coupling, E. N. Gifford. | 268,879 268,976 269,093 268,781 268,781 268,782 269,005 269,018 269,005 268,888 268,961 268,988 269,161 268,988 269,103 269,043 269,043                 |

| (9) R. R. W. writes: I am told by prac-   | Carburetor, A. W. Lacy   |   |  |
|---|--|---|--|
| tical men and of experience that hardening tools in oil,<br>such as sledges, hammers, chisels, and picks, is proof  | Carpet sweeper, L. B. Shute  | 269,127   | H  |
| against cracking. Please tell me the kind of oil used   | Carriage springmachine, Briggs & Hess  | 268,967   |  |
| and the process of so doing. A. Much depends upon<br>the selection of the steel and the treatment it receives in  | Chain carrier, G. Gowan  | 268,883   | н  |
| welding as to its final condition in hardening. Steel for   | chair. Window cleaning chair.  | :   | H  |
| sledges, hammers, and picks should be of low grade,<br>and not the highest for chisels. If careful attention is   | Check or other paper representing value, M. F. Berry   | 268,988   | H  |
| given to hardening at the very lowest heat possible, it will  | Chest. See Bolting chest. Fireproof chest.<br>Cherry seeder, G. W. Knapp   | 260.066   | н  |
| insurefreedomfrom cracks even with water. You can<br>harden at a higher heat with oil than with water with  | Chimney, J. Browell  | 268,860   | H  |
| safety and that gives a preference tooil with many. The   | Churn, N. Smith  |   |  |
| best oil is "pure winter strained lard," although many  | Cigar perforator, J. Talbot  |   | $\mathbf{H}$   |
| compounds of lard, fish, and mineral oils are used for<br>cheapness. Heat slowly in a charcoal fire and dip, mov-   | Cigars, machine for cleansing, coloring, and flavoring, Hull & Ogden   | 268,795   | H  |
| ing the article horizontally fast enough to free the sur-   | Clevis, C. F. Duling   | 268,785   | н  |
| face of vapor bubbles, especially in hammers.   | Clock, calendar, M. L. Jacquemin   |   |  |
| MINERALS, ETC.—Specimens have been re-  | Clock stand, G. Hills  |   | Н  |
| cei ved from the following correspondents, and  | Cock for steam engines, cylinder, E. E. Mueller  |   |  |
| examined, with the results stated:  | Coffee compound or sustitute, A. & M. Conroy Coke oven door, W. G. Merriman  |   |  |
| S. B. A.—A is quartz rock with mica. B is a chloritic gneiss, holding iron pyrites, and probably contains gold  | Composite washer, C. A. Rodney   |   |  |
| and silver. An assay of both would be advisable.—   | Cooker, baker, and broiler, combination, W. B. Billings  | 268855  | H  |
| J. E. G.—It is a very pure kaolin or china clay, and very valuable to manufacturers of porcelain; its value   | Cooking vessel spoon holder, J. A. Hemsteger   | 269,054   | Н  |
| is about \$40.00 per ton in New York city.—J. L.—No.  | Cooking vessel, steam, J. R. Walls   | 269,143   | H  |
| 1 is what is termed an ironsand, and composed of mag-   | Corsets, S. Heilner  |   | H  |
| netite and menaccanite, garnet rock, and quartz. The two first are black, the garnet yellow or red, and the   | Cot, folding, F. S. Martyny  | 269,079   | In   |
| quartz white. No. 2 is an ordinary micaceous clay of  | Coupling. See Car coupling. Harvester pitman   | 269,091   | In   |
| little value.—J. W. B.—A clay slate, holding iron pyrites, possibly containing gold or silver. An assay would   | coupling. Pipe coupling. Shaftcoupling.  | 000.000 !   | Ire  |
| be advisable.   | Crane for clothes-lines, pulley, D. Sullivan Culinary utensil, E.J. Barlow   |   | Ja<br>Ja   |
| CONTRIBUTE A MYONG DECENTED   | Cultivator beams, lifting device for, J. T. Hamilton   |   | Ja<br>Ki   |
| COMMUNICATIONS RECEIVED.  A Sure Preventive of Chicken Cholera, by W. H. G.   | Cultivator, harrow, and marker, C. La Dow  | 269,070   | K  |
| Comet, by C. H. C.  | Cultivator, spring tooth sulky, C. La Dow Cut-off, rain water, G. Lemle  |   | Ki<br>La   |
| <del></del>   | Cutter. See Lozenge cutter.  |   | L  |
| [OFFICIAL.]   | Cutter head gauge, W. L. Dodge  Delivery apparatus, L. C. Crowell  |   | L  |
| <del>_</del>  | Dental plugger, W. H. H. Hunter<br>Derrick, Starke & Crowley   |   | La   |
| INDEX OF INVENTIONS   | Desk, writing. J. J. Johnston.   | 268,799   | L  |
| FOR WHICH   | Die. See Brick die. Thread cutting die. Diffusion apparatus, R. Sieg   |   | La<br>La   |
| Letters Patent of the United States were  | Door and drawer plate, S. G. Howe  Door hanger, E. C. Stearns  | 269,058   | L  |
| Granted in the Week Ending  | Draught equalizer, J. W. & A. B. Lawler  | 268,912   | L  |
| December 12, 1882,  | Draw bar spring, J. F. Collins   | 268,868   | La   |
| ,   | Fox (r)  | 10,258  | Lε   |
| AND EACH BEARING THAT DA'TE.  | Dredging machine, H. B. Angell  Dress weight, E. J. Brooks   |   |  |
| [Those marked (r) are reissued patents.]  | Drill. See Grain drill. Drill frame. Clark & Lee   | 260 010 <sup>1</sup>  | Li   |
| A printed copy of the specification and drawing of any  | Dumping platform, Savage & Love  | <b>26</b> 8.943   |  |
| patent in the annexed list, also of any patent issued   | Dust and sewer trap, H. Pennie  Eaves trough, C. R. Everson  |   | L  |
| since 1866, will be furnished from this office for 25 cents. In ordering please state the number and date of the  | Edger, gang. S. White  | 268,966   |  |
| patent desired and remit to Munn & Co., 261 Broadway, corner of Warren Street, New York city. We  | Electric machines, armature for dynamo, F. Bain.   |   | M  |
| also furnish copies of patents granted prior to 1866;   | Electric machines, armature for dynamo, A. B. Fisher   | 260 U26   | Me<br>M  |
| but at increased cost, as the specifications, not being printed, must be copied by hand.  | Electric motor for Geissler tubes, W. J. McCol-  |   | Mi   |
|   | lom  | 269,082   | M  |
| Acid, manufacture of sulphuric, E. Haworth 268,793<br>Advertising wagon, J. S. Goldsmith 269,045  | McLaughlin   |   | Mi<br>M  |
| Air, compensating reservoir for compressed, C.  | Elevator. See Hay elevator.  | 209,092   | 141  |
| L. Beers  | Elevator indicator, hydraulic, Schon & Brown<br>Engine. See Gas engine. Rag engine. Traction   | 268,946   | M  |
| Auger, hollow. if. Beisheim 268,986   | engine.  |   | M  |
| Awning, window, J. Willie   | Fence, W. M. Butler<br>Fence wire, machine for winding, W. B. Knight   |   | M <sub>0</sub>   |
| Carpenter   | Filter, water, P. Abbott   |   | M  |
| Barber's chair, L. W. Boys 268,992  | Fire alarm signals, recording instrument for,  |   | M<br>Na  |
| Barrel register, Müller & Mauser  | Dean & Whiting   |   | Ne   |
| Bathing tub, portable, A. P. Browne   | Fire damp indicator, I. Kitsee<br>Fire escape, O. Sutphen  |   | Ne   |
| Bell ringing, pneumatic, R. P. Garsed 268.882   | Fire escape, extension, P. Schuh   |   | Ne   |
| Bending machine, L. B. McNutt   | Fire extinguishing sprinkler, automatic, W. A. Wilson  | 268,970   | Oa   |
| Bit stock, A. H. Reid       268,938         Blind slat, S. E. Adamson       268,847   | Fireproof chest, J. H. Nolan   |   | Oi   |
| Blind slat adjuster, G. W. Springsted 268.835   | Folding table, E. F. Blythe  | 268,990   | Or   |
| Boiler. See Steam boiler.  Bolting chest, N. Cornelius  | Foot coverings, manufacturing, S. G. Alexander.<br>Frame. See Drill frame.   | 268,848   | Pε   |
| Bone black kilns, discharge apparatus for coolers of, R. J. Barr 268,981  | Frame and plaque, combined, A. Currier Fruit jar, E. Livermore   |   |  |
| Boot or shoe, J. R. Cancio 268,864  | Fruit picker, L. Simkins   |   | Pa   |
| Boot or shoe, S. K. Hindley   |  | 160 O <del>rt</del> o   | Pa   |
| Bottle stopper, J. B. Davids 268,872  | Fuel in cities. process of and apparatus for distributing liquid, Du Motay & Stern   |   |  |
| Bouquet holder and badge pin, combined, C. P.   | Fuel in cities. process of and apparatus for distributing liquid, Du Motay & Stern   | 268,889   | Pa   |
| Bouquet holder and badge pin, combined, C. P.  Jacobs   | Fuel in cities, process of and apparatus fordistributing liquid, Du Motay & Stern  Furnace door, H. Higgins  | 268,989<br>268,913  | Pa   |
|   | Fuel in cities, process of and apparatus fordistributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  | 268,889<br>268,913<br>269,022   | Рa   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar. Gas, apparatus for regulating the supply of, J.   | 268,989<br>268,913<br>269,022<br>268,895  | Pa<br>Pe   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann   | 268.889<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163  | Pa<br>Pe<br>Pe<br>Pe   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern  Furnace door, H. Higgins.  Furnace raking attachment, A. H. Lee.  Gauge. See Cutter head gauge.  Galvanizing appliance, H. Cull.  Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J.  McLennan & Owen  Gas engine, K. Teichmann  Gas engine, H. Wiedling.  Gas fixture, extension, J. F. Brown.  | 268.889<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146   | Pa<br>Pe<br>Pe<br>Pi<br>Pi   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern  Furnace door, H. Higgins  Furnace raking attachment, A. H. Lee  Gauge. See Cutter head gauge.  Galvanizing appliance, H. Cull  Game, G. W. Hoar  Gas, apparatus for regulating the supply of, J.  McLennan & Owen  Gas engine, K. Teichmann  Gas engine, H. Wiedling  Gas fixture, extension, J. F. Brown  Gas generating process and apparatus, W. F.   | 268.889<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999  | Pa<br>Pe<br>Pe<br>Pe   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne. Gas meter, P. E. Perez.   | 268,969<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863   | Pa<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar. Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne.  | 268.869<br>268,913<br>269.022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929  | Pa<br>Pe<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne.  Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson.  Gate. See Car platform gate. Rallway gate.   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929<br>269,162   | Pa<br>Pe<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, K. Teichmann Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez. Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass and crockery ware, screw thread for uniting  | 268,869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929<br>269,162<br>268,953  | Pa<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar. Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Raliway gate. Girth, A. V. Smith   | 268.969<br>268,913<br>269.022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929<br>269,162<br>268,953<br>269,001   | Pa<br>Pe<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi                               |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, K. Teichmann Gas gine, H. Wiedling Gas fixture, extension, J. F. Brown Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass and crockery ware, screw thread for uniting articles of. W. H. Brut. Glass signs, manufacture of, T. B. Atterbury Grain binder, J. E. Buxton  | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929<br>269,162<br>268,953<br>269,001<br>268,849<br>269,004   | Part Pier Pier Pier Pier Pier Pier Pier Pier   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne. Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson. Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith. Glass and crockery ware, screw thread for uniting articles of, W. H. Brunt Glass signs, manufacture of, T. B. Atterbury. Grain binding machine, J. F. Gordon Grain binding machine, J. F. Gordon Grain decorticator, McChesney & Cralg  | 268.869<br>268,913<br>269,022<br>268,895<br>269,163<br>269,163<br>269,146<br>268,999<br>268,863<br>269,929<br>269,162<br>268,953<br>269,001<br>268,849<br>269,001<br>269,001  | Pa<br>Pe<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi       |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, K. Teichmann Gas engine, H. Wiedling Gas fixture, extension, J. F. Brown Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez. Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury Grain binder, J. E. Buxton Grain binding machine, J. F. Gordon Grain decorticator, McChesney & Cralg.   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929<br>269,162<br>268,953<br>268,929<br>269,001<br>268,849<br>269,004<br>269,046   | Pa<br>Pe<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pl<br>Pl<br>Pl             |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne. Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson. Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith. Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury. Grain binder, J. E. Buxton. Grain binding machine, J. F. Gordon Grain decorticator, McChesney & Craig Grain drill. J. A. Carr Grain separator, J. Brunner. Grate. fre, P. Richards.  | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,999<br>268,863<br>268,929<br>269,162<br>268,963<br>269,001<br>268,849<br>269,001<br>269,001<br>269,001  | Pa<br>Pe<br>Pe<br>Pe<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pi<br>Pl<br>Pl<br>Pl<br>Pl<br>Pl |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Catter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar. Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gasfixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne. Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith. Glass signs, manufacture of, T. B. Atterbury. Grain binder, J. E. Buxton Grain binder, J. E. Buxton Grain in georitical control of the contr | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,999<br>268,863<br>268,929<br>269,162<br>268,953<br>269,001<br>268,849<br>269,004<br>269,004<br>269,000<br>269,000<br>269,000<br>269,000<br>269,001  | Part Per Per Pir Pir Pir Pir Pir Pir Pir Pir Pir Pi  |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne. Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury. Grain binding machine, J. F. Gordon Grain decorticator, McChesney & Craig Grain drill. J. A. Carr Grain separator, J. Brunner. Grate, fire, P. Richards. Grinding mill hoppers, cover for, A. Ripplen. Grubbing shears, P. Durham Guard. See Bridge guard.   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,999<br>268,863<br>268,929<br>269,162<br>269,001<br>268,849<br>269,001<br>269,001<br>269,015<br>269,016  | Part Pie   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, K. Teichmann Gas engine, H. Wiedling Gas fixture, extension, J. F. Brown Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez. Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass signs, manufacture of, T. B. Atterbury Grain binder, J. E. Buxton Grain binding machine, J. F. Gordon Grain decorticator, McChesney & Craig. Grain decorticator, McChesney & Craig. Grain separator, J. Brunner. Grate, fre, P. Richards Grinding mill hoppers, cover for, A. Rippien Grubbing shears, P. Durham Guard. See Bridge guard. Gun, composite, W. Pailiser Guns, mounting boat, Misson & Cunningham   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>268,863<br>268,929<br>269,162<br>268,849<br>269,001<br>269,004<br>269,001<br>269,000<br>269,000<br>269,000<br>269,000<br>269,000<br>269,000   | Part Pier Pier Pier Pier Pier Pier Pier Pier   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne. Gas meter, P. E. Perez. Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson. Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith. Glass and crockery ware, screw thread for uniting articles of, W. H. Brunt. Grain binding machine, J. F. Gordon Grain drill, J. A. Carr Grain separator, J. Brunner. Grate, fre, P. Richards. Grinding mill hoppers, cover for, A. Rippien. Grubbing shears, P. Durham. Guard. See Bridge guard. Guard. See Bridge guard. Gun, composite, W. Palliser.   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>269,146<br>268,999<br>269,162<br>268,849<br>269,061<br>269,081<br>269,001<br>269,015<br>269,000<br>269,115<br>269,000<br>269,115<br>269,000<br>269,100<br>269,000   | Part Per   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, K. Teichmann Gas engine, H. Wiedling Gas fixture, extension, J. F. Brown Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez. Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury Grain binder, J. E. Buxton Grain decorticator, McChesney & Craig. Grain decorticator, McChesney & Craig. Grain drill. J. A. Carr Grain separator, J. Brunner. Grate, fire, P. Richards Grinding mill hoppers, cover for, A. Rippien Grubbing shears, P. Durham Guard. See Bridge guard. Gun, composite, W. Palliser Guns, mounting boat, Mason & Cunningham Hamme, E. G. Latta Hammock and cot, J. C. Dodge Handle for knives, forks, etc., J. S. & A. Ray   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,929<br>268,863<br>268,929<br>268,863<br>268,929<br>269,162<br>269,061<br>269,081<br>269,072<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,073<br>269,07 | Part Pier Pier Pier Pier Pier Pier Pier Pier   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne.  Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith. Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury. Grain binder, J. E. Buxton. Grain decorticator, McChesney & Craig Grain drill. J. A. Carr Grain drill. J. A. Car | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,929<br>268,863<br>268,929<br>269,162<br>269,061<br>269,081<br>269,007<br>269,081<br>269,016<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081  | Part Pier Pier Pier Pier Pier Pier Pier Pier   |
| Jacobs 268.901  Box. See Packing box. Shelf box. Telegraph signal box. Wagon box. Watch movement box.  Bracket. See Lamp bracket.  Brake. See Car brake.  Brick die, G. F. Earhart 268,976  Brick die, G. F. Earhart 268,976  Bridge guard, swing, G. E. Mörstad 269,093  Brush boring machine, M. G. Imbach 268,788  Buckle, harness, F. Conway 268,788  Buckle, trace, G. B. Northrup 269,102  Buildings, protecting apparatus for, Crowell & Dawson 269,018  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh 269,018  Burner. See Hydrocarbon burner. Vapor burner.  Butter jar. Carey & Cavanaugh 269,005  Candle moulds, air distributer for, W. H. Haney 268,897  Cane and picnic chair, combination walking, H. M. Houston 268,997  Canes, umbrella handles, etc., attachment to, F. G. & B. C. Stidger 268,838  Capsule cutting machine, H. H. Taylor 268,838  Capsule cutting machine, H. H. Taylor 269,916  Car brake, E. H. Brown 269,161  Car brake, E. H. Brown 269,161  Car brake, H. F. Notbohm 269,102  Car coupling, J. Geddes 268,789  Car coupling, J. Geddes 268,789  Car coupling, F. N. Gifford 269,916  Car coupling, F. W. Kelly 268,965  Car coupling, Peace & Sankey 269,106 | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee Gauge. See Catter head gauge. Galvanizing appliance, H. Cull Game, G. W. Hoar Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, K. Teichmann Gas engine, H. Wiedling Gas fixture, extension, J. F. Brown Gas generating process and apparatus, W. F. Browne Gas meter, P. E. Perez. Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury Grain binder, J. E. Buxton Grain decorticator, McChesney & Craig. Grain decorticator, McChesney & Craig. Grain drill. J. A. Carr Grain separator, J. Brunner. Grate. fire, P. Richards Grainden gill hoppers, cover for, A. Rippien Grubbing shears, P. Durham Guard. See Bridge guard. Gun, composite, W. Palliser Guns, mounting boat, Mason & Cunningham Hamme, E. G. Latta Hammock and cot, J. C. Dodge Handle for knives, forks, etc., J. S. & A. Ray Harrow, J. F. Lymburner Harrow, F. A. Morand  | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,929<br>268,863<br>268,929<br>269,162<br>269,061<br>269,081<br>269,007<br>269,081<br>269,016<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081<br>269,081  | Part Pier Pier Pier Pier Pier Pier Pier Pier   |
| Jacobs  | Fuel in cities, process of and apparatus for distributing liquid, Du Motay & Stern Furnace door, H. Higgins. Furnace raking attachment, A. H. Lee. Gauge. See Cutter head gauge. Galvanizing appliance, H. Cull. Game, G. W. Hoar.  Gas, apparatus for regulating the supply of, J. McLennan & Owen Gas engine, K. Teichmann Gas engine, H. Wiedling. Gas fixture, extension, J. F. Brown. Gas generating process and apparatus, W. F. Browne.  Gas meter, P. E. Perez Gas, process of and apparatus for manufacturing, H. M. & J. S. Pierson. Gate. See Car platform gate. Rallway gate. Girth, A. V. Smith. Glass and crockery ware, screw thread for uniting articles of. W. H. Brunt Glass signs, manufacture of, T. B. Atterbury. Grain binder, J. E. Buxton. Grain decorticator, McChesney & Craig. Grain drill. J. A. Carr Grain drill. J. A. Carr Grain deparator, J. Brunner. Grate. fire, P. Richards. Grinding mill hoppers, cover for, A. Rippien. Grubbing shears, P. Durham Guard. See Bridge guard. Gun, composite, W. Palliser. Guns, mounting boat, Mason & Cunningham Hame, E. G. Latta. Hammock and cot, J. C. Dodge Handle for knives, forks, etc., J. S. & A. Ray. Hanger. See Door hanger. Harrow, J. F. Lymburner Harrow, J. F. Lymburner Harrow, J. F. Lymburner Harrow, F. A. Morand. Harrow and cutivator, sulky spring tooth, C. La   | 268.869<br>268,913<br>269,022<br>268,895<br>269,087<br>269,163<br>268,929<br>268,863<br>268,929<br>268,863<br>268,929<br>269,162<br>269,061<br>269,081<br>269,077<br>269,081<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,078<br>269,07 | Part Pier Pier Pier Pier Pier Pier Pier Pier   |

| Harrow, sulky, L. M. Gillett  | 1.,.   | The state of the s |   |
|---|--|--|---|
|   |  | Pump, W. Sellers   |   |
| Harvester, J. M. Rosebrooks   | 268,828  | Pump, air, W. Stanley, Jr  | 269,188   |
| Harvester binder, E. Heath  |  | Pump, force, J. Bedford  |   |
| A. Kennedy  |  | Purse, F. W. Schwarz   | 268,831   |
| Harvester pitman coupling, T. Urle  |  | Puzzle, T. R. Boone  |   |
| Harvesting machine, E. L. Bracken   |  | Rail coupling and bed plate, J. Ney  |   |
| Hat blocking and shaping machine, R. Eicke-<br>meyer                                      |  | Railway brake mechanism, fluid pressure, J. W. Cloud   |   |
| Hat holder, F. A. Reicard   | 268,937  | Railway gate, J. O. McCutchan  | 269,084   |
| Hat stretching machine, R. Elckemeyer   |  | Railway signal, D. C. Baughman   |   |
| Hay elevator and conveyer, W. M. Mountain   | 268,814  | Railway switch, C. L. Cooke  | 269 016   |
| Hay press, T. W. & C. L. Ames<br>Hay rake, horse, A. W. Force                             |  | Railway switch, M. A. Green  |   |
| Head-light, locomotive, J. Kirby, Jr  | 269,065  | Rake. See Hay rake.  | 040.0=#   |
| Hearse, D. Schmitt  |  | Range, C. H. Blanchard   |   |
| Hinge, trunk, R. G. Dayton  |  | Reel. See Harwester reel.<br>Reflector, window. W. H. Shipman  | 000 105   |
| Holder. See Bouquet holder. Car label holder.<br>Cooking vessel spoon holder. Hat holder. |  | Register. See Barrel register.   | 209,120   |
| Horse tail holder. Lamp carbon holder. Pen-   |  | Rifle, parlor, J Ziindorff   |   |
| cil holder. Pillow sham holder. Sad iron holder.  |  | Rope, jumping, F. Pohley   |   |
| Hook. See Snap hook.  | 000.057  | Saccharine liquors, defecating, C. R. Bergreen   |   |
| Horse power, A. G. Holbrook   |  | Sad iron holder, S. M. Carnes  |   |
| Horseshoe nails, machine for making, H. E. & E. F. Grandy                                 |  | Safe, J. H. Nolan  |   |
| Hydrocarbon burner, R. F. Rankin  | 268,824  | Safes, fireproof material for. J. H. Nolan   | 268,820   |
| Hypodermic needle, A. W. Brinkerhoff  Hypohydroscope, W. L. Trenholm                      |  | Sand band, W. M. Farr  |   |
| Indicator. See elevator indicator. Fire damp in-  |  | Sash balance, H. O. Opsal  | 269,104   |
| dicator, Injector, medicine, J. A. Knight   | 268.805  | Sash fastener, H. T. King Sash fastener, C. E. Steller (r)   |   |
| Ironing table, J. J. Johnston   |  | Saw filer, H. P. Jones   |   |
| Jack. See Lifting jack.  Jack and weighing scale, combined, S. H. Hyde                    | 268,797  | Sawfiling machine, E. Roth   |   |
| Jar. See Butter jar. Fruit jar.   | 000 007  | Scale, W. W. Reynolds  | 269,113   |
| King bolt connection, vehicle, H. L. Kingsley<br>Knife. See Skinning knife.               | . 1  | Screen. See Window screen. Seal lock. G. A. Ellsworth  |   |
| Knife, J. S. & A. Ray<br>Lamp, E. Blackman  |  | Seed crushing machine, cotton, J. P Keeton<br>Separator. See Grain separator.  | 268,803   |
| Lamp, blast, R. Reach   | 269,110  | Sewer gas trap, H. R. Cassel   |   |
| Lamp bracket and match box, combined, J. Simpson  |  | Sewers, wing gate for flushing, S. Johnson<br>Sewing buttons to fabrics, machine for, H. L.  | 268,903   |
| Lamp, electric, W. Stanley, Jr  | 269,132  | Phelps   |   |
| Lamp, electric arc, C. M. Ball  Lamp, electric arc, L. G. Woolley                         |  | Sewing machine, Dimond & House   |   |
| Lamp carbon holder, electric, C. M. Ball  |  | Sewing machine bobbin winder. C. H. Hopp   | 268.896   |
| Lamp fixture, extension, D. W. Parker  Lamp, miner's, J. Sawyer                           |  | Sewing machine feed mechanism, Keith & Carleton  | 268,804   |
| Lamps, cut-out for electric. Coleman & Smith<br>Lantern, W. Porter, Jr                    |  | Sewing machine guide, A. Habbert   | 269,049   |
| Latch, M. C. Niles269,097,  | 269,099  | Sewing machine trimming attachment, G. M.  |   |
| Latch, reversible, M. C. Niles  Lathe drill rest, Kelly & Sherman                         |  | Morris   |   |
| Level, J. Robertson Lifting Jack, A. D. Goodwin   |  | Shaft coupling, F. F. Landis   |   |
| Lifting jack, J. C. Michael   |  | Sheet delivery apparatus, L. C. Crowell  | 269.021   |
| Lock. See Padlock. Permutation lock. Seal lock. Vehicle top lock.                         |  | Shelf box, merchant's, B. F. Robinson Shoe fastening, Morton & Bennett   |   |
| Lozenge cutter, hand, C. H. Hall  |  | Shoe heel burnishing machine, Keighley & Blais-  |   |
| Lumber assorter, F. McDonough  Lumber drying apparatus, A. Thalheimr                      |  | dell   | 269,061   |
| Mechanical movement, C. A. Wenborne   |  | Skinning knife, P. Brion   |   |
| Medicinal compound, G. Ulrich   |  | Sole edge trimmer, B. D. Boover  | 268,858   |
| Meter: See Gas meter.  Middlings detacher and granulator, C. Brown                        | 268,861  | Spoke trimming machine, A. Eckman Spring. See Draw bar spring. Vehicle spring.   | 268,787   |
| Mill. See Rolling mill.   | •  | Sprinkler. See Fire extinguishing sprinkler.   |   |
| Millstone dress, E. L. Conklin  | 209,019  | Stamp mill speeding device, W. B. Upton Stand. See Clock stand. Sewing stand.  | 268,963   |
| Moths, mildew, etc., preserving furs, feathers, clothing, carpets, etc., from, Stockman & |  | Steam boiler, G. Miles Steam boiler, G. H. Rheutan   |   |
| Duffin  |  | Steam boiler. marine, F. Funke   | 269,041   |
| Motion, apparatus for converting, T. Sargent  Motion converting, E. T. Alling             |  | Stirrup. safety, S. F. English   |   |
| Motion. device for converting, M. E. Weller   |  | Stopper. See Bottle Stopper.<br>Stove, J. Sinnamon   | 969 922   |
| Motor. See Electric motor.  Musical instrument, mechanical, O. H. Arno,                   |  | Stove, cooking and heating, F. Metzner   | 268.921   |
| Musical instrument, mechanical, H. B. Morris  |  | Stove heater attachment, N. J. Graham<br>Stove, vapor, R. F. Danforth  |   |
| Nails, manufacturing, J. M. Estabrook   | 268,880  | Stoves, cooking attachment for oil, M. E. Porter.  |   |
| Necktie, I. & J. French   |  | Strap. See Pack strap.<br>Structures of plastic material, producing continu-   |   |
| ton   |  | ous, J. Newton   | 268,927   |
| Dayton  |  | Tap wrench. F. Armstrong   | 268,978   |
| Oats, process of and apparatus for hulling, G. H. Cormack                                 | 268.782  | Telegraph for railways, W. L. Hunt   |   |
|   |  |  | 269 124   |
| Oil pail, J. W. Collier   |  | Telephone exchange, automatic, F. H. Snell   | 269,130   |
| Ore, process of and apparatus for the reduction   |  | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan  | 269,130   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones   | 269,130<br>269,030<br>268,802   |
| Ore, process of and apparatus for the reduction of fron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>268.922   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry Thermostat coil, H. J. Haight   | 269,130<br>269,030<br>268,802<br>268,853  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>268.922   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry   | 269,130<br>269,030<br>268,802<br>268,853<br>268,885   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>258.922<br>269,144  | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>258.922<br>269,144<br>268,809   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry Thermostat coil, H. J. Haight Thrashing machine cleaning attachment B. Chamberlain  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>258.922<br>269,144<br>268,809<br>268,786  | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920   |
| Ore, process of and apparatus for the reduction of fron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>266.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269.056  | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier Traction engine, F. F. Landis Trap. See Dust and sewer trap. Sewer gas trap.  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,056<br>269,120   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire. wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer.   | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>268.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269.056<br>269,120<br>269,136  | Telephone exchange, automatic, F. H. Sne'll Telephone, mechanical, C. Egan   | 269,130<br>269,030<br>268,802<br>268,885<br>269,157<br>269,153<br>269,128<br>269,128<br>268,920<br>268,808  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>258.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,056<br>269,136<br>269,137<br>269,060   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald Truss, T. Simmons   | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920<br>268,808  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>269,059<br>265.922<br>269,144<br>268,809<br>269,786<br>269,117<br>269,056<br>269,120<br>269,136<br>269,137<br>269,060   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan  | 269,130<br>269,030<br>268,802<br>268,885<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920<br>268,808<br>269,907<br>269,078<br>268,951   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>265.922<br>269,144<br>268,809<br>268,786<br>269,137<br>269,056<br>269,136<br>269,136<br>269,136<br>269,060<br>268,955   | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald Truss, T. Simmons Tub. See Bathing tub. Tube expander, adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin   | 269,130<br>269,030<br>268,802<br>268,885<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920<br>268,808<br>269,987<br>269,078<br>268,951<br>268,918<br>268,918   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>265.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,056<br>269,120<br>269,137<br>269,060<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837  | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I. Andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise.  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920<br>268,808<br>268,967<br>269,078<br>268,918<br>268,918<br>269,160<br>269,028<br>269,148   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,056<br>269,136<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837<br>268,837<br>269,011  | Telephone exchange, automatic, F. H. Snell Telephone, mechanical, C. Egan Theatrical performances, exhibiting the words or score in, T. L. Jones Thermometer, clinical, J. Barry Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire. wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier Traction engine, F. F. Landis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald Truss, T. Simmons Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot Valve, engine, W. Wise Valve gear, steam engine. C. M. Giddings  | 269,130<br>269,030<br>268,802<br>268,855<br>268,885<br>269,157<br>269,153<br>269,128<br>268,920<br>268,908<br>269,08<br>269,08<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,117<br>269.056<br>269,120<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837<br>268,917<br>268,817<br>268,913   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. Landis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander, adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine, C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat.  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>269,128<br>269,20<br>268,868<br>268,920<br>268,868<br>269,920<br>269,920<br>269,920<br>269,920<br>269,020<br>269,048<br>269,041<br>269,041<br>269,041<br>269,141<br>269,141<br>269,141<br>269,141<br>269,141<br>269,141   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,056<br>269,136<br>269,137<br>269,060<br>268,955<br>269,010<br>268,917<br>269,011<br>268,917<br>269,0131<br>269,0131<br>269,0118   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier. Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truckfor moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Trus, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve, globe, G. Reimann Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick.   | 269,130<br>269,030<br>268,802<br>268,802<br>268,855<br>269,157<br>269,153<br>269,193<br>269,193<br>269,193<br>269,194<br>269,028<br>269,160<br>269,028<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,16 |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,117<br>269,056<br>269,120<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837<br>269,011<br>268,913<br>269,138<br>269,011<br>269,138<br>269,088<br>269,188   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. Landis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander, adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine, C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick. Vehicle spring, R. T. Blshop.  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>269,128<br>269,20<br>268,868<br>268,920<br>268,868<br>269,920<br>269,162<br>269,162<br>269,162<br>269,162<br>269,162<br>269,163<br>269,163<br>269,172<br>269,173<br>269,173<br>269,173<br>269,173<br>269,173<br>269,773<br>269,773<br>269,773<br>269,773<br>269,773   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,126<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837<br>269,011<br>268,917<br>269,011<br>269,136<br>269,136   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve, gear, steam engine. C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, J. R. Baker Vapor burner, T. D. McCormick. Vehicle spring, R. T. Bishop. Vehicle spring, L. C. Wood.   | 269,130 269,030 268,802 268,802 268,855 269,157 269,153 269,153 269,190 268,908 268,908 269,190 269,19  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,186<br>269,187<br>269,066<br>269,137<br>269,060<br>268,955<br>269,107<br>268,917<br>268,917<br>269,188<br>269,188<br>269,188<br>269,188  | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I. I. Andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine. C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick. Vehicle spring, R. T. Bishop. Vehicle spring, L. Rodenhausen Vehicle spring, L. C. Wood. Vehicle top lock, J. Wilson Velocipede, E. Lüdeke.   | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>269,200<br>268,808<br>269,907<br>269,907<br>269,108<br>269,102<br>269,112<br>269,103<br>269,102<br>269,103<br>269,104<br>269,014<br>269,104<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,014<br>269,01 |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,060<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837<br>269,011<br>268,917<br>269,011<br>269,136<br>269,136<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,15  | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. Landis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine. C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, J. R. Baker. Vapor burner, T. D. McCormick. Vehicle spring, L. R. Medenhausen Vehicle spring, L. C. Wood. Vehicle top lock, J. Wilson Velocipede, E. Lüdeke. Ventilating grain, etc., J. K. Street  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,128<br>269,128<br>269,128<br>269,078<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,083<br>269,177<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176<br>269,176   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,056<br>269,136<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,917<br>269,18<br>269,08<br>269,18<br>269,08<br>269,18<br>269,08<br>269,08<br>269,18<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,08<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09<br>269,09 | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I. Andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander, adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine, C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick Vehicle spring, L. Rodenhausen Vehicle spring, L. Rodenhausen Vehicle spring, L. G. Wood. Vehicle top lock, J. Wilson Velocipede, E. Lüdeke. Ventilating grain, etc., J. K. Street  | 269,130<br>269,030<br>268,802<br>268,853<br>268,885<br>269,157<br>269,153<br>269,163<br>269,160<br>268,808<br>268,920<br>268,808<br>269,162<br>269,162<br>269,162<br>269,163<br>269,162<br>269,162<br>269,163<br>269,162<br>269,163<br>269,162<br>269,162<br>269,163<br>269,163<br>269,164<br>269,162<br>269,162<br>269,163<br>269,164<br>269,162<br>269,162<br>269,163<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,164<br>269,16 |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,107<br>269,136<br>269,137<br>269,060<br>269,137<br>269,011<br>268,917<br>269,011<br>269,138<br>269,018<br>269,189<br>269,088<br>269,088<br>269,088<br>269,008<br>269,008<br>269,008<br>269,008<br>269,008   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire. wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier. Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truckfor moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truns, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, J. R. Baker Vapor burner, T. D. McCormick. Vehicle spring, R. T. Bishop. Vehicle spring, L. Rodenhausen Vehicle spring, L. C. Wood. Vehicle top lock, J. Wilson Velocipede, E. Lüdeke. Ventilation, W. A. Pitt Vise, pipe, N. W. Vandegrift Wagon, Foad, S. D. Reyvolds.   | 269,130<br>269,030<br>268,802<br>268,853<br>268,855<br>269,157<br>269,153<br>269,128<br>268,920<br>268,920<br>268,920<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,16 |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,120<br>269,136<br>269,136<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,937<br>269,011<br>268,937<br>269,018<br>269,150<br>269,150<br>269,150<br>269,150<br>269,088<br>269,150<br>269,098<br>269,098<br>269,090<br>269,090   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine. C. M. Giddings. Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick. Vehicle spring, L. Rodenhausen Vehicle spring, L. Rodenhausen Vehicle spring, L. C. Wood. Vehicle top lock, J. Wilson Velocipede. E. Lüdeke. Ventilating grain, etc., J. K. Street Ventilation, W. A. Pitt Vise, pipe, N. W. Vandegrift Wagon box, E. F. Chapman Wagon, road, S. D. Reynolds. Wall paper, W. C. Walter.  | 269,130<br>269,030<br>268,802<br>268,853<br>268,855<br>269,157<br>269,153<br>269,128<br>268,920<br>268,920<br>268,920<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,160<br>269,16 |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,120<br>269,136<br>269,136<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,937<br>269,011<br>268,937<br>269,018<br>269,150<br>269,150<br>269,150<br>269,150<br>269,088<br>269,150<br>269,098<br>269,098<br>269,090<br>269,090   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough, See Eaves trough. Truckfor moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Trus, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve, globe, G. Reimann Valve, stop or gate, F. H. Treat Vapor burner, J. D. McCormick. Vehicle spring, R. T. Bishop. Vehicle spring, R. T. Bishop. Vehicle spring, L. C. Wood. Vehicle top lock, J. Wison Velocipede. E. Lüdeke. Ventilation, W. A. Pitt Vise, pipe, N. W. Vandegrift Wagon box, E. F. Chapman Wagon, road, S. D. Reyvolds. Wall paper, W. C. Watter. Washing machine, T. A. H. Cameron.   | 269,130 269,030 268,802 268,802 268,853 268,855 269,157 269,153 269,180 268,808 268,809 268,900 269,100 269,000 269,100 269,000 269,100   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,162<br>269,117<br>269,056<br>269,120<br>269,136<br>269,137<br>269,060<br>268,955<br>269,107<br>268,937<br>269,011<br>268,937<br>269,018<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,150<br>269,088<br>269,088<br>269,098<br>269,090<br>269,090<br>269,090<br>269,090<br>268,972  | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I. Andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine. C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, J. R. Baker Vapor burner, T. D. McCormick. Vehicle spring, L. Rodenhausen Vehicle spring, L. Rodenhausen Vehicle spring, L. Rodenhausen Vehicle top lock, J. Wison Velocipede. E. Lüdeke. Ventilating grain, etc., J. K. Street Ventilation, W. A. Pitt Vise, pipe, N. W. Vandegrift Wagon, road, S. D. Reynolds. Wall paper, W. C. Walter. Washing machine, J. P. Myers.   | 269,130 269,030 268,802 268,853 268,885 269,157 269,153 269,128 269,169 268,808 269,169 268,808 269,169 269,16  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269,059<br>258.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,120<br>269,137<br>269,137<br>269,060<br>268,955<br>269,107<br>268,837<br>269,011<br>268,917<br>269,118<br>269,088<br>269,159<br>269,159<br>269,159<br>269,008<br>269,159<br>269,009<br>268,972<br>269,009<br>269,009<br>269,009<br>268,972   | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve, gear, steam engine. C. M. Giddings. Valve, globe, G. Reimann Valve, stop or gate, F. H. Treat Vapor burner, J. R. Baker Vapor burner, J. R. Baker Vapor burner, J. R. Baker Vehicle spring, R. T. Bishop. Vehicle spring, L. C. Wood Vehicle spring, L. C. Wood Vehicle top lock, J. Wilson Velocipede. E. Lüdeke. Ventilation, W. A. Pitt Vise, pipe, N. W. Vandegrift Wagon box, E. F. Chapman Wagon, road, S. D. Reynolds. Wall paper, W. C. Walter. Washing machine, J. P. Myers. Washen Machine J. W. W. A. Gustafsson.   | 269,130 269,030 268,802 268,802 268,855 269,157 269,153 269,153 269,190 268,900 268,900 269,000 269,000 269,000 269,100 269,000 269,10  |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>269,120<br>269,137<br>269,060<br>269,136<br>269,137<br>269,017<br>268,955<br>269,117<br>269,011<br>268,955<br>269,131<br>269,072<br>268,917<br>269,131<br>269,072<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,136<br>269,13  | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway, J. D. F. Meier. Traction engine, F. F. I. Andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander, adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Urn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine, C. M. Giddings. Valve, globe, G. Reimann. Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick Vehicle spring, L. Rodenhausen Vehicle spring, L. Rodenhausen Vehicle spring, L. C. Wood. Vehicle top lock, J. Wilson Velocipede, E. Lüdeke. Ventilating grain, etc., J. K. Street Ventilating grain, etc., J. K. Street Washer. See Composite washer. Washing machine, T. A. H. Cameron. Washing machine, T. A. H. Cameron. Washing machine, Z. C. Smith Water to houses, supplying, A. Campbell.  | 269,130 269,030 268,802 268,853 268,885 269,157 269,153 269,168 269,169 268,808 268,868 269,169 268,868 269,169   |
| Ore, process of and apparatus for the reduction of iron, E. Tourangin                     | 268.840<br>268.932<br>269.059<br>255.922<br>269,144<br>268,809<br>268,786<br>269,117<br>269,056<br>269,120<br>269,137<br>269,060<br>268,955<br>269,107<br>268,917<br>269,011<br>268,917<br>269,181<br>269,088<br>269,088<br>269,089<br>269,090<br>268,972<br>269,159<br>269,159  | Telephone exchange, automatic, F. H. Sne'll. Telephone, mechanical, C. Egan. Theatrical performances, exhibiting the words or score in, T. L. Jones. Thermometer, clinical, J. Barry. Thermostat coil, H. J. Haight Thrashing machine cleaning attachment. B. Chamberlain Thread cutting die, F. Armstrong. Tie. See Necktie. Tire, wagon wheel, G. D. Smith Toy, railway. J. D. F. Meier. Traction engine, F. F. I.andis Trap. See Dust and sewer trap. Sewer gas trap. Trimmer. See Sole edge trimmer. Trough. See Eaves trough. Truck for moving reapers, H. Clayton Trumpet, ear, A. Macdonald. Trumpet, ear, A. Macdonald. Truss, T. Simmons. Tub. See Bathing tub. Tube expander. adjustable, N. G. McIntyre. Tube fagot, T. J. Deakin. Ulrn, coffee, Duparquet & Huot. Valve, engine, W. Wise. Valve gear, steam engine. C. M. Giddings. Valve, stop or gate, F. H. Treat Vapor burner, T. D. McCormick. Vehicle spring, L. Rodenhausen Vehicle spring, L. Smith Wagon, road, S. D. Reynolds.  Valve, add S. D. Reynolds.  Valve, add S. D. Reynolds.  Valve, add S. D. Reynolds.  Valve pipe, N. W. Vandegrift Wagon box, E. F. Chapman Wason, road, S. D. Reynolds.  Valve pipe, N. W. Sanderien Washing machine, T. A. H. Cameron Washing machine, J. P. Myers Washing machine | 269,130 269,030 268,802 268,802 268,855 269,157 269,153 269,153 269,153 269,160 269,060 269,060 269,060 269,060 269,060 269,060 269,111 269,138 269,149 269,149 269,141 269,135 268,822 268,828 269,149 269,141 269,135 268,837 269,149 269,149 269,149 269,149 269,155 268,822 269,149 269,155 268,822 269,156 269,059 269,156 269,059 269,155 269,954 269,954 269,95  |