having a knuckle connection. The lower member of each hinge is secured to the upper portion of the door, the upper member of each hinge being attached to the carriage. A rod connects a lift-lever fulcrumed upon the door with the carriage. A bolt held to slide and rock upon the door is provided with a lateral cam projection adapted to engage the door when the bolt is rotated. A keeper is provided for the bolt independently of the door and also a locking device for the bolt. The device is applicable to freight cars, barns, refrigerators, etc.

#### Designs.

ANTI-RATTLER PLATE. - Charles T. Redfield, Glen Haven, N. Y. The leading feature of this design consists in arranging an upright wing at an angle slightly less than a right angle to the lower or base wing. which is tapered toward its free end. At its upper end the upright wing is provided with a lateral forked exten-

Note.-Copies of any of these patents will be furnished by Munn & Co. for 10 cents each. Please send the name of the patentee, title of the invention, and date of this paper.

### Business and Personal.

The charge for insertion under this head is One Dollar of line for each insertion; about eight words to a line Advertisements must be received at publication offic as early as Thursday morning to appear in the follow ing week's issue.

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Gasoline Engines and Launches. Free catalogue Geo. H. Gere Y. and L. Works, Grand Rapids, Mich.

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The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4. Munn & Co., publishers, 361 Broadway, N. Y. Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway,

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Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication.

References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated: correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.

Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of house manufacturing or carrying the same.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

Scientific American Supplements referred to may be had at the office. Price 10 cents each.

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Ninerals sent for examination should be distinctly marked or labeled.

(7461) M. R. B. asks how to prepare a drill for making holes in glass. A. A flat drill, made of new steel and heated to a dark red and plunged in the ordinary zinc chloride soldering solution, will drill glass readily. The drill must be sharpened before it is hard-

(7462) R. A. C. savs: 1. How can a fine telescope lens be cleaned without injuring it? A. A very soft old linen handkerchief is best; if greasy, wipe with a little tissue paper wet with weak alkali. Lense should be cleaned as rarely as possible; use old linen, not silk. 2. How can ranges of vision at sea, from different elevations, be estimated? A. You will find a full description of range finders in our COAST DEFENCE SUP-PLEMENT. Mailed for 25 cents.

# NEW BOOKS, ETC.

THE STORAGE BATTERY. A Practical Treatise on the Construction, Theory and Use of Secondary Batteries.
By Augustus Treadwell. New York:
The Macmillan Company. 1898. Pp. xix, 257. Price \$1.75.

In pursuing his work with storage batteries the author found himself greatly hampered by the lack of any compact data concerning the construction of many cells which have been and which are on the market and by the pau city of reliable discharge curves. Believing that a book containing such data and curves would prove valuable. not only to the student and manufacturer, but also to all who are interested in storage batteries, he began the compilation of the book and has succeeded admirably. American and foreign patents are cited at the bottom of

A TREATISE ON MAGNETISM AND ELEC-TRICITY. By Andrew Gray. In two volumes. Vol. I. London and New York: Macmillan & Company. 1898. Pp. xvi, 472. Price \$4.50.

The author of the present work deals with the subject

not a treatise on the mathematical theory of electricity only, but successfully brings theory and practice together. Some elementary acquaintance on the part of the reader with electrical phenomena and their laws is presupposed, and a considerable knowledge of mathematics is also needed. By those who can understand a work of this kind it will be warmly welcomed.

COAL CATECHISM. By William Jasper Nicolls. Philadelphia and London: J. B. Lippincott Company. 1898. Pp. 218. Price \$1.50.

The "Coal Catechism" is intended for a great numb of intelligent readers who have no technical training and yet who prefer to seek knowledge by reading special subjects rather than fiction. A large proportion of them have neither time nor inclination to peruse the great geological and statistical reports of the coal industry of the United States or to study the subject in technical works. Information is conveyed in the popular question and answer form. It is rather a good idea to have a series of books ou similar subjects, and it is to be hoped that this volume may be the precursor of many others dealing with similar subjects. The book is attractively printed and bound and is provided with a comprehensive index.

THE TRACTION ENGINE: ITS USE AND ABUSE. By James H. Maggard. Revised and enlarged by an expert engineer. Philadelphia: David McKay. 1898. Pp. 128. Price \$1.

A book of instruction for operators of farm engine has been needed for some time, and the present work appears to deal with the subject in a practical manner First a general description of trucking engines is given, followed by general directions for the proper use of engines and boilers, telling what to do in case of an emer

TALES FROM McClure's: WAR. Being true stories of camp and battlefield.
New York: Doubleday & McClure
Company. 1898. Pp. 193. Price 25

A charming series of little books is now being issued by the publishers of McClure's Macazine. The present volume, of almost vest pocket size, contains a number of thrilling stories by Major-General Nelsou A. Miles and

AMERICAN CEMENTS. By Uriah Cummings. Boston: Rogers & Manson. 1898. 8vo. Pp. 299. Price \$3.

Since the publication of Gen. Gillmore's classic work, many years ago, no book has been produced which deals with the subject of American rock cements. The period since the publication of Gen. Gillmore's treatise has been far the most important in the history of the industry. The changes which have taken place dur ing this time, the marked advances which have been made and the new processes which are being employed and the marvelous growth of the trade resulting from a widening of the markets for the production, clearly present a profitable field for investigation, and furnish many facts worthy of record. In the present book adequate consideration has been paid to the claims and merits of American rock cements. The arrangement of the book is excellent, and it is a fine piece of technical book-mak ing. The subject of cements is treated in all its bearings and special attention is paid to tests of all kinds. Auother section of the book is devoted to various cemen works, including artistic views of them. There is quite a full list of structures made in American rock cement giving the location of the various cement works from which the cement was obtained.

OUTLINES OF PRACTICAL HYGIENE. By C. Gilman Currier, M. D. Third edition, revised and enlarged. E. B. Treat & Co. 1898. Pp. 461. Price

Practical hygiene is one of the most important subjects which the architect or physician has to encounter, The present work appears to be an eminently thorough and practical treatise upon the subject, dealing with soil and climate, clothing, bathing, exercise, occupation, lighting, heating, ventilating, building and streets, foods, diet, water, the disposal of wastes, the disposal of the dead, bacteria, disease and disinfection, longevity, etc. The book does not discuss the rapeutical mean in so far as they belong legitimately within the domain of hygiene.

A MANUAL OF HYGIENE AND SANITA-TION. By Seneca Egbert. Philadelphia and New York: Lea Brothers & Company. 1898. Pp. 368, vii. Price \$2 25.

The present work contains a plain statement of the fundamental principles and facts of hygiene and sanitation together with such explanations and details based on American practice as serve to make the work clear and readable. Of all the medical sciences, clearly the most imrtant is that which prevents disease instead of curin it, and which deals with entire communities as well as with individuals. We cannot have too many good books on this subject. The present book appears to be an excellent one and fully up to the times

HAND-BOOK OF NATURE STUDY. teachers and pupils in elementary schools. By D. Lange. New York and London: The Macmillan Company 1898. Cloth, 12mo. Pp. 329. Price \$1.

This work is a valuable primer to natural history and cience, and is calculated to afford teachers the means of inculcating their pupils with desirable and essential knowledge regarding the more common plants, trees, birds, insects and quadrupeds, without entailing upon themselves special courses of study. The book is thoroughly practical, and as valuable to the instructed as to the instructor.

THE GENERAL MANAGER'S STORY. Herbert Elliott Hamblen. New York: Macmillan Company. 1898. Pp. 311. Price \$1 50.

We cannot have too many good stories about American railway life, which differs in many respects from that in largely from a mathematical standpoint. The work is other countries. The book is very interesting and, at the

same time, gives a great deal of information about railroading which the ordinary individual is desirous of acquiring, when he can obtain it with little mental effort. After reading this book, one can discuss learn. edly about "broke in two," "flagging" and other mysteries of the rail.

ELECTRIC CATALOGUE OF ELECTRICAL PLANTS AND MACHINERY FOR ELEC-TRIC LIGHTING, TRANSMISSION OF POWER, ELECTRO-PLATING, DE-POSITING, WELDING, ETC. By Ern-est Scott & Mountain, Limited. Newcastle-on-Tyne.

The volume before us is a bound collection of catalogues, and is interesting as showing the use of electric power for many purposes. It is handsomely got up and is freely illustrated by wood engravings, half tones and line drawings. It probably illustrates some of the best examples of British engineering practice.

THE DIFFERENTIAL. Published by the Junior Class of Case School of Ap-plied Science. Cleveland, Ohio. Pp. 147, xxxiii.

THE MDCCCXCIX CORNELLIAN. The book of the Junior Class of Cornell University. Vol. xxx. 1898. Pp. 284,

#### TO INVENTORS.

An experience of fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business, Address MUNN & CO., office Scientific American, 361 Broadway, New York.

### INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

JUNE 28, 1808.

AND EACH BEARING THAT DATE.

ISee note at end of list about copies of these patents.

Abdominal supporter, S. J. Fowler. 606,410 Acid and making same, amidonaphthoidisulfo, F. Bender. 606,437 Adjustable chair, J. J. White. 606,437 Adjustable chair, J. J. White. 606,437 Adjustable chair, J. J. White. 606,437 Air compressor, F. Richards. 606,237 Air compressor, F. Richards. 606,237 Air compressor, F. Richards. 606,428 Airm. Sea e Automatic alarm. Burgiar slarm. 606,405 Alarm. Sea e Automatic alarm. Burgiar slarm. Sea e alarm. Coleman. 606,405 Alarm. Sea e Automatic alarm. 606,405 Aluminum sulld and making same, D. A. Penia- kondinal sulld and making same, D. A. Penia- Aluminian sulld and making same, D. A. Penia- Burgian sulld and su	Esse note at the about solves at these parents.]	F
Arabethethar J. J. White	Abdominal supporter, S. L. Fowler 606,410 Acid and making same, amidonaphtholdisulfo,	F
Arbonesson F. Richards	F. Bender	F
Sale alarm. Aluminum sulfid and making same, D. A. Penia Goldon, Aluminum sulfid and making same, D. A. Penia Goldon, Aluminum sulfid and making same, D. A. Penia Goldon, Gol	McKee	Ī
Alaminus usild and making same, D. A. Peniakoff.  Aluminus usild and making same, D. A. Peniakoff.  An imal trap setting device, D. Luye	Alarm. See Automatic alarm. Burglar alarm.	F
A command of the comm	Alarm system, C. Coleman	F
Automatic switch, F. W. 1008. Automatic switch, F. W. 1008. And box box guard for a. J. S. Patten. 606.232 And box box guard for a. J. S. Patten. 606.232 Bag holder, seed, C. N. Choate Bamboo rods, reducing and shaping, Durant & Prichard. Bag holder, seed, C. N. Choate Barmboo rods, reducing and shaping, Durant & Prichard. Battery. See Voltaic battery. Bearing, antifriction, J. E. Lawrence. 606.485 Bearing, ball, S. T. Randolph. 606.241 Bearing, ball, J. R. Saucier. 606.491 Bearing, vehicle roller, Timken & Heinzelman. 606.585 Bed, invalid, J. M. Scribner. 606.491 Bert clamp, Carley, & Rickards. 606.512 Belt, endiess, A. Christensen. 606.313 Bicycle attachment, M. Burt. 606.513 Bicycle attachment, M. Burt. 606.314 Bicycle brake, J. H. Downer. 606.334 Bicycle brake, J. H. Downer. 606.334 Bicycle seat, W. H. Thomas. 606.334 Bicycle seat, W. H. Thomas. 606.331 Bicycle seat, W. H. Thomas. 606.334 Bicycle support, P. Person. 606.495 Bicycle support, W. Metzrath. 606.495 Bicycle support, P. Person. 606.495 Bicycle support, P. Person. 606.495 Bicycle state, carrier for, W. M. Tegart. 606.495 Bicycle state, stam, Davy & Edey. 606.496 Bicycle state, stam, Davy & Edey. 606.191 Book cover, writing, C. J. Ainsworth. 606.192 Book, wall, G. R. Pease. 606.232 Book, wall, G. R. Pease. 606.233 Book, manifolding, H. Whitfield. 606.321 Book, wall, G. R. Pease. 606.236 Bottle cap, Scholey & Schrader. 606.390 Bottle, non-refliable, J. McCafferty. 606.390 Bottle, non-refliable, J. McCafferty. 606.390 Brake for holsts or similar apparatus. A. Bozani 606.391 Brush, J. T. Burnip. 606.391 Brush, J. T. Burnip. 606.392 Brake for holsts or similar apparatus. A. Bozani 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpso	koff	F
Automatic switch, F. W. 1008. Automatic switch, F. W. 1008. And box box guard for a. J. S. Patten. 606.232 And box box guard for a. J. S. Patten. 606.232 Bag holder, seed, C. N. Choate Bamboo rods, reducing and shaping, Durant & Prichard. Bag holder, seed, C. N. Choate Barmboo rods, reducing and shaping, Durant & Prichard. Battery. See Voltaic battery. Bearing, antifriction, J. E. Lawrence. 606.485 Bearing, ball, S. T. Randolph. 606.241 Bearing, ball, J. R. Saucier. 606.491 Bearing, vehicle roller, Timken & Heinzelman. 606.585 Bed, invalid, J. M. Scribner. 606.491 Bert clamp, Carley, & Rickards. 606.512 Belt, endiess, A. Christensen. 606.313 Bicycle attachment, M. Burt. 606.513 Bicycle attachment, M. Burt. 606.314 Bicycle brake, J. H. Downer. 606.334 Bicycle brake, J. H. Downer. 606.334 Bicycle seat, W. H. Thomas. 606.334 Bicycle seat, W. H. Thomas. 606.331 Bicycle seat, W. H. Thomas. 606.334 Bicycle support, P. Person. 606.495 Bicycle support, W. Metzrath. 606.495 Bicycle support, P. Person. 606.495 Bicycle support, P. Person. 606.495 Bicycle state, carrier for, W. M. Tegart. 606.495 Bicycle state, stam, Davy & Edey. 606.496 Bicycle state, stam, Davy & Edey. 606.191 Book cover, writing, C. J. Ainsworth. 606.192 Book, wall, G. R. Pease. 606.232 Book, wall, G. R. Pease. 606.233 Book, manifolding, H. Whitfield. 606.321 Book, wall, G. R. Pease. 606.236 Bottle cap, Scholey & Schrader. 606.390 Bottle, non-refliable, J. McCafferty. 606.390 Bottle, non-refliable, J. McCafferty. 606.390 Brake for holsts or similar apparatus. A. Bozani 606.391 Brush, J. T. Burnip. 606.391 Brush, J. T. Burnip. 606.392 Brake for holsts or similar apparatus. A. Bozani 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpso	Atomizer, R. W. Prescott	Ė
Automatic switch, F. W. 1008. Automatic switch, F. W. 1008. And box box guard for a. J. S. Patten. 606.232 And box box guard for a. J. S. Patten. 606.232 Bag holder, seed, C. N. Choate Bamboo rods, reducing and shaping, Durant & Prichard. Bag holder, seed, C. N. Choate Barmboo rods, reducing and shaping, Durant & Prichard. Battery. See Voltaic battery. Bearing, antifriction, J. E. Lawrence. 606.485 Bearing, ball, S. T. Randolph. 606.241 Bearing, ball, J. R. Saucier. 606.491 Bearing, vehicle roller, Timken & Heinzelman. 606.585 Bed, invalid, J. M. Scribner. 606.491 Bert clamp, Carley, & Rickards. 606.512 Belt, endiess, A. Christensen. 606.313 Bicycle attachment, M. Burt. 606.513 Bicycle attachment, M. Burt. 606.314 Bicycle brake, J. H. Downer. 606.334 Bicycle brake, J. H. Downer. 606.334 Bicycle seat, W. H. Thomas. 606.334 Bicycle seat, W. H. Thomas. 606.331 Bicycle seat, W. H. Thomas. 606.334 Bicycle support, P. Person. 606.495 Bicycle support, W. Metzrath. 606.495 Bicycle support, P. Person. 606.495 Bicycle support, P. Person. 606.495 Bicycle state, carrier for, W. M. Tegart. 606.495 Bicycle state, stam, Davy & Edey. 606.496 Bicycle state, stam, Davy & Edey. 606.191 Book cover, writing, C. J. Ainsworth. 606.192 Book, wall, G. R. Pease. 606.232 Book, wall, G. R. Pease. 606.233 Book, manifolding, H. Whitfield. 606.321 Book, wall, G. R. Pease. 606.236 Bottle cap, Scholey & Schrader. 606.390 Bottle, non-refliable, J. McCafferty. 606.390 Bottle, non-refliable, J. McCafferty. 606.390 Brake for holsts or similar apparatus. A. Bozani 606.391 Brush, J. T. Burnip. 606.391 Brush, J. T. Burnip. 606.392 Brake for holsts or similar apparatus. A. Bozani 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpson & Handiges. 606.393 Car brake beam, railway, Simpso	Auger, H. G. Watrous	F
Bamboo roots, reducing and snaping, Jurant & Prichard. See Voltaic battery.  Battery. See Voltaic battery.  Bearing, antifriction, J. E. Lawrence. (60,485).  Bearing, ball, J. R. Saucler. (60,495).  Bearing, roller, Timken & Heinzelman (60,525).  Bearing, roller, Timken & Heinzelman (60,525).  Bearing, vehicle roller, Timken & Heinzelman (60,525).  Bearing, vehicle roller, Timken & Heinzelman (60,525).  Bed, invalid, J. M. Scribner. (60,247).  Belt, endless, A. Christensen (60,376).  Bicycle attachment, M. Burt. (60,518).  Bicycle attachment, C. S. Morse. (60,389).  Bicycle prake, J. L. Allen (60,389).  Bicycle prake, J. Higson. (60,389).  Bicycle prake, J. Higson. (60,389).  Bicycle saddle, B. S. Seaman. (60,389).  Bicycle saddle, B. S. Seaman. (60,389).  Bicycle saddle, B. S. Seaman. (60,381).  Bicycle sear. W. L. Thomas. (60,381).  Bicycle sear. W. L. W. Tegar. (60,381).  Bicycle sear. (60,381).  Bicycle s	Automatic switch W Poss 606 209	I
Bamboo roots, reducing and snaping, Jurant & Prichard. See Voltaic battery.  Battery. See Voltaic battery.  Bearing, antifriction, J. E. Lawrence. (60,485).  Bearing, ball, J. R. Saucler. (60,495).  Bearing, roller, Timken & Heinzelman (60,525).  Bearing, roller, Timken & Heinzelman (60,525).  Bearing, vehicle roller, Timken & Heinzelman (60,525).  Bearing, vehicle roller, Timken & Heinzelman (60,525).  Bed, invalid, J. M. Scribner. (60,247).  Belt, endless, A. Christensen (60,376).  Bicycle attachment, M. Burt. (60,518).  Bicycle attachment, C. S. Morse. (60,389).  Bicycle prake, J. L. Allen (60,389).  Bicycle prake, J. Higson. (60,389).  Bicycle prake, J. Higson. (60,389).  Bicycle saddle, B. S. Seaman. (60,389).  Bicycle saddle, B. S. Seaman. (60,389).  Bicycle saddle, B. S. Seaman. (60,381).  Bicycle sear. W. L. Thomas. (60,381).  Bicycle sear. W. L. W. Tegar. (60,381).  Bicycle sear. (60,381).  Bicycle s	Axle boxes, dust guard for car, J. S. Patten 606,232 Back pedaling brake, L. E. Hoffman	l
Battery See Voitsie battery Bearing, ball, S. T. Randolph Gos. 495 Bearing, ball, S. T. Randolph Gos. 496 Bearing, vehicle roller, Timken & Heinzelman Gos. 585 Bearing, vehicle roller, Timken & Heinzelman Gos. 585 Bed, invalid, J. M. Scribner Belt clamp, Carley & Rickards Gos. 606, 312 Belt, endless, A. Christensen Glicycle attachment, M. Burt Gos. 606, 312 Belt, endless, A. Christensen Gos. 316 Bicycle attachment, C. S. Morse Gos. 606, 318 Bicycle stack, J. M. Downer Gos. 606, 318 Bicycle stack, J. H. Jigson Gos. 606, 318 Bicycle stack, J. H. Jigson Gos. 606, 318 Bicycle stack, J. H. Jigson Gos. 606, 318 Bicycle seat, W. H. Thomas Gos. 606, 318 Bicycle set, carrier for W. M. Tegart Gos. 606, 318 Bicycles, etc., carrier for W. M. Tegart Gos. 737 Bicycles, etc., carrier for W. M. Tegart Gos. 737 Bicycles, etc., carrier for W. M. Tegart Gos. 737 Bicycles, etc., carrier for W. M. Tegart Gos. 737 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycle set, carrier for W. M. Tegart Gos. 738 Bicycle set, carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for W. M. Tegart Gos. 738 Bicycles, etc., carrier for w. M. Tegart Gos. 738 Bicycles, etc., carrier, sample for	Bag holder, seed, C. N. Choate	H
Bicycle brake, J. M. Allen	Prichard	I
Bicycle brake, J. M. Allen	Bearing, antifriction, J. E. Lawrence	F
Bicycle brake, J. M. Allen	Bearing, ball, J. R. Saucier. 606,491	H
Bicycle brake, J. M. Allen	Bearing, vehicle roller, Timken & Heinzelman 606,635	1
Bicycle brake, J. M. Allen	Bed, invalid, J. M. Scribner	I
Bicycle brake, J. M. Allen	Belt, endless, A. Christensen 606,376 Bicycle attachment, M. Burt 606,185	ļ
Bicycle handle bat adjustable, W. C. Dayhoff. 505, 102 Bicycle saddle, B. Sesaman	Bicycle attachment, C.S. Morse. 606,389	1
Bicycle handle bat adjustable, W. C. Dayhoff. 505, 102 Bicycle saddle, B. Sesaman	Bicycle brake, J. M. Downer	İ
Boiler. See Sectional boiler.  Soiler attachment, steam, A. Griese. 606,384  Boiler grate, steam, Davy & Edey. 606,191  Book cover, writing, C. J. Ainsworth. 606,180  Book, manifolding, H. Whitfield. 606,321  Book, wall, G. R. Pease. 606,233  Bottle cap, Scholey & Schrader. 606,582  Bottle, non-refliable, E. C. Bowne. 606,593  Bottle, non-refliable, E. C. Bowne. 606,399  Bottle, non-refliable, H. Strawson. 606,399  Bottle, non-refliable, H. Strawson. 606,399  Bottle, non-refliable, J. A. Trimble. 606,230  Bottle, stopper, N. Lindbergh. 606,290  Box. See Folding box.  Brace. See Excavation extension brace.  Brake. See Bicycle brake. Car brake. Wagon brake.  Brake beam. W. A. Pungs. 606,290  Brake for holists or similar apparatus. A. Bobrani 606,389  Brake pipe connection. C. W. Vaughan (reissue). 11,673  Brush, J. T. Burnip.  Brush, J. T. Burnip.  Brush, clothes line, D. F. Gallagher. 603,482  Brake Brake gage device, M. Young. 603,511  Buckle, D. E. Havell.  Buckle, D. E. Havell.  Buckle, D. E. Lavrence. 606,623  Burner. See Coal burner. Gas burner. Hydrocarbon burner.  Burton, A. S. Crane. 606,531  Burner, See Coal burner. Gas burner. Hydrocarbon burner.  Carbon burner.  Button, A. S. Crane. 606,531  Camera, photograph, T. F. Adams. 606,531  Camera, photographic copying, H. Stender, 606,330  Car brake, J. Ruff. 606,530  Car brake, Jecturing, B. W. Morfoot. 606,330  Car brake, electrohydrostatic automatic, Buchel. & McGion. 606,330  Car brake, electrohydrostatic automatic, Buchel. & McGion. 606,330  Car brake, J. Ruff. 606,330  Car brake, electrohydrostatic automatic, Buchel. & McGion. 606,330  Car brake, electrohydrostatic automatic, Buchel. & McGion. 606,330  Car brake, J. Ruff. 606,330  Car brake, J. Ruff. 606,330  Car brake, electrohydrostatic automatic, Buchel. & McGion. 606,330  Car brake, electrohydrosta	Bicycle brake, J. Higson	F
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Bottle cap. Scholey & Schrader	Block. See Wood block.	18
Bottle cap. Scholey & Schrader	Boiler attachment, steam, A. Griese	19
Bottle cap. Scholey & Schrader	Book cover, writing, C. J. Ainsworth 606,191	00000
Bottle cap. Scholey & Schrader	Book, manifolding, H. Whitfield	18
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Cabinet, photograph, T. F. Adams. 906, 325 Cake turner, M. D. Good. 95 Camera focusing attachment. D. E. Sharretts. 906, 395 Camera, photographic copying, H. Stender, 606,594 Can head, key opening, B. W. Morfoot. 906,593 Car brake, J. Ruff. 906,595 Car brake beam, railway, Simpson & Handiges. 906,595 Car brake beam, railway, Simpson & Handiges. 906,593 Car brake, electrohydrostatic automatic, Buchel & McGloin. 906,593 Car coupling, G. T. Rohn. 906,593 Car coupling, A. Ruscher 906,245 Car coupling, J. Timms 906,603 Car draught rigging, railway, J. Conrath 906,417 Car driving gear, motor, W. Sydenham et al. 906,311 Car side bearing, railway, C. F. Huntoon 906,593 Carriers See Parect carrier. 906,593 Carriers See Parect carrier. 906,593 Case. See Telescopic case. 906,183 Case. See Telescopic case. 906,183 Case. See Telescopic case. 906,183 Case Telescopic case. 906,183 Case See Telescopic case. 906,583 Case See Te	carbon burner.	ď
Cam head, key opening, B. W. Morfoot. 606,594 Can head, key opening, B. W. Morfoot. 606,594 Car brake, J. Ruff. 9, 100,505 Car brake, J. Ruff. 9, 100,505 Car brake, electrohydrostatic automatic, Buchel & McGloin. 606,393 Car coupling, G. T. Rohn. 606,383 Car coupling, J. Timms. 606,638 Car coupling, J. Timms. 606,638 Car draught rigging, rallway, J. Conrath. 606,493 Car draught rigging, rallway, J. Conrath. 606,638 Carriage rocker attachment, baby, G. L. Morgan 606,569 Carriage rocker attachment, baby, G. L. Morgan 606,569 Carriage rocker attachment, baby, G. L. Morgan 606,569 Caster, See Telescopic case. 606,618 Caster, T. Carney. 606,516 Cask pitching apparatus, P. Sherrer. 606,396 Caster, J. A. Kennedy-McGregor. 606,622 Caster, Merritt & Groff. 606,536 Cement, making slag, C. J. Curtin. 606,278 Chair See Adjustable chair. Chair and bed. combined, B. Murtagh 606,687 Chlorin derivatives of toluene, making, P. P.	Cabinet, photograph, T. F. Adams	1
Cam head, key opening, B. W. Morfoot. 606,594 Can head, key opening, B. W. Morfoot. 606,594 Car brake, J. Ruff. 9, 100,505 Car brake, J. Ruff. 9, 100,505 Car brake, electrohydrostatic automatic, Buchel & McGloin. 606,393 Car coupling, G. T. Rohn. 606,383 Car coupling, J. Timms. 606,638 Car coupling, J. Timms. 606,638 Car draught rigging, rallway, J. Conrath. 606,493 Car draught rigging, rallway, J. Conrath. 606,638 Carriage rocker attachment, baby, G. L. Morgan 606,569 Carriage rocker attachment, baby, G. L. Morgan 606,569 Carriage rocker attachment, baby, G. L. Morgan 606,569 Caster, See Telescopic case. 606,618 Caster, T. Carney. 606,516 Cask pitching apparatus, P. Sherrer. 606,396 Caster, J. A. Kennedy-McGregor. 606,622 Caster, Merritt & Groff. 606,536 Cement, making slag, C. J. Curtin. 606,278 Chair See Adjustable chair. Chair and bed. combined, B. Murtagh 606,687 Chlorin derivatives of toluene, making, P. P.	Camera focusing attachment. D. E. Sharretts 606,394	
Can head, key opening, B. W. Morfoot. 606.471 Car brake, J. Ruff. 606.565 Car brake, electrohydrostatic automatic, Buchel & McGloin. 606.380 Car coupling, G. T. Rohn. 606.383 Car coupling, J. Timms. 606.638 Car coupling, J. Timms. 606.638 Car draught rigging, rallway, J. Conrath. 606.481 Car draught rigging, rallway, J. Conrath. 606.481 Car draught rigging, rallway, J. Conrath. 606.311 Car side bearing, rallway, C. F. Huntoon. 606.341 Carrier greer, motor, W. Sydenham et al. 606.311 Carriage rocker attachment, baby, G. L. Morgan 606.569 Carrier. See Parcel carrier. Carrying apparatus, J. Anderson. 606.618 Case. See Telescopic case. Cash indicator and recorder, W. W. & W. H. 606.324 Cash register, T. Carney. 606.182 Cask or barrel manufacturing machinery, R. Collen. 606.516 Cask pitching apparatus, P. Sherrer. 606.396 Caster, J. A. Kennedy-McGregor. 606.462 Caster, Merritt & Groff. 606.396 Cement, making slag, C. J. Curtin. 606.278 Chair see Adjustable chair. Chair and bed. combined, B. Murtagh 606.488 Chimney cleaner. A. Messenger. 606.567	Camera, photographic copying, H. Stender, 606,593, 606,594	ļ
Car brake beam, railway, Simpson & Handiges 606,308 Car brake, electrohydrostatic automatic, Buchel & McGloin 606,538 Car coupling, G. T. Rohn 606,538 Car coupling, A. Ruscher 606,538 Car coupling, J. Timms 606,638 Car draught rigging, railway, J. Conrath 606,638 Car draught rigging, railway, J. Conrath 606,341 Car ridge pear, motor, W. Sydenham et al 606,341 Car ridge pear, motor, W. Sydenham et al 606,341 Carriage rocker attachment, baby, G. L. Morgan 606,341 Carriage rocker attachment, baby, G. L. Morgan 606,569 Carrier, See Parect carrier. Carrying apparatus, J. Anderson 606,618 Case. See Telescopic case. Cash indicator and recorder, W. W. & W. H. Wythe 606,324 Cash register, T. Carney 606,368 Casket, T. Garney 606,368 Casket, T. H. Linahan 606,462 Caster, Merritt & Groff 606,396 Caster, J. A. Kennedy-McGregor 606,462 Caster, Merritt & Groff 606,396 Cement, making slag, C. J. Curtin 600,278 Chair. See Adjustable chair. Chair and bed. combined, B. Murtagh 606,488 Chimney cleaner. A. Messenger 606,567 Chlorin derivatives of toluene, making, P. P.	Can head, key opening, B. W. Morfoot	
Car coupling, J. Timms 606.603 Car draught Timms 606.603 Car draught Tigging, railway, J. Conrath 606.404 Car driving gear, motor, W. Sydenham et al. 606.301 Car side bearing, railway, C. F. Huntoon 606.304 Carriage rocker attachment, baby, G. L. Morgan 606.509 Carrier. See Parcel carrier. Carrying apparatus, J. Anderson 606.618 Case. See Telescopic case. Cash indicator and recorder, W. W. & W. H. Wythe 606.324 Cash register, T. Carney 606.328 Cash or barrel manufacturing machinery, R. Collell Leu. Cask pitching apparatus, P. Sherrer 606.308 Casket, T. H. Linahan 606.462 Caster, J. A. Kennedy-McGregor 606.462 Caster, J. A. Kennedy-McGregor 606.462 Caster, Merritt & Groff 606.324 Chair. See Adjustable chair. Chair and bed. combined, B. Murtagh 606.488 Chimney cleaner. A. Messenger 606.567 Chlorin derivatives of toluene, making, P. P.	Car broke been reilway Simpson & Handiges 606 408	1:
Car coupling, J. Timms 606.603 Car draught Timms 606.603 Car draught Tigging, railway, J. Conrath 606.404 Car driving gear, motor, W. Sydenham et al. 606.301 Car side bearing, railway, C. F. Huntoon 606.304 Carriage rocker attachment, baby, G. L. Morgan 606.509 Carrier. See Parcel carrier. Carrying apparatus, J. Anderson 606.618 Case. See Telescopic case. Cash indicator and recorder, W. W. & W. H. Wythe 606.324 Cash register, T. Carney 606.328 Cash or barrel manufacturing machinery, R. Collell Leu. Cask pitching apparatus, P. Sherrer 606.308 Casket, T. H. Linahan 606.462 Caster, J. A. Kennedy-McGregor 606.462 Caster, J. A. Kennedy-McGregor 606.462 Caster, Merritt & Groff 606.324 Chair. See Adjustable chair. Chair and bed. combined, B. Murtagh 606.488 Chimney cleaner. A. Messenger 606.567 Chlorin derivatives of toluene, making, P. P.	& McGloin	ıl;
Car coupling, J. Timms Car draught rigging, railway, J. Conrath 606,447 Car driving gear, motor, W. Sydenham et al 606,345 Carriage rocker attachment, baby, G. L. Morgan 606,569 Carrier, See Parecel carrier. Carrying apparatus, J. Anderson 606,618 Case. See Telescopic case. Cash indicator and recorder, W. W. & W. H. Wythe 606,324 Cash register, T. Carney 606,186 Cask parel manufacturing machinery, R. Collen 606,516 Cask pitching apparatus, P. Sherrer 606,396 Casket, T. H. Linahan 606,462 Caster, Merritt & Groff 606,396 Caster, Merritt & Groff 606,462 Cander and bed. combined, B. Murtagh 606,463 Chinney cleaner. A. Messenger 606,587 Chlorin derivatives of toluene, making, P. P.	Car coupling, G. T. Rohn	1
Case.         See Telescopic case.           Cash indicator and recorder, W. W. & W. H.         606.324           Wythe.         606.188           Cash register, T. Carney         606.188           Cask or barrel manufacturing machinery, R. Collection         606.161           Cask pitching apparatus, P. Sherrer         606.396           Caster, T. H. Linahan         606.462           Caster, J. A. Kennedy-McGregor         606.462           Caster, Merritt & Groff         606.462           Cement, making slag, C. J. Curtin         606.278           Chair See Adjustable chair.         606.488           Chinriney cleaner. A. Messenger         606.567           Chlorin derivatives of toluene, making, P. P.	Car coupling, J. Timms	
Case.         See Telescopic case.           Cash indicator and recorder, W. W. & W. H.         606.324           Wythe.         606.188           Cash register, T. Carney         606.188           Cask or barrel manufacturing machinery, R. Collection         606.161           Cask pitching apparatus, P. Sherrer         606.396           Caster, T. H. Linahan         606.462           Caster, J. A. Kennedy-McGregor         606.462           Caster, Merritt & Groff         606.462           Cement, making slag, C. J. Curtin         606.278           Chair See Adjustable chair.         606.488           Chinriney cleaner. A. Messenger         606.567           Chlorin derivatives of toluene, making, P. P.	Car driving gear, motor, W. Sydenham et al 606,311	
Case.         See Telescopic case.           Cash indicator and recorder, W. W. & W. H.         606.324           Wythe.         606.188           Cash register, T. Carney         606.188           Cask or barrel manufacturing machinery, R. Collection         606.161           Cask pitching apparatus, P. Sherrer         606.396           Caster, T. H. Linahan         606.462           Caster, J. A. Kennedy-McGregor         606.462           Caster, Merritt & Groff         606.462           Cement, making slag, C. J. Curtin         606.278           Chair See Adjustable chair.         606.488           Chinriney cleaner. A. Messenger         606.567           Chlorin derivatives of toluene, making, P. P.	Carriage rocker attachment, baby, G. L. Morgan 606,569	
Cash indicator and recorder, W. W. & W. H.  Wythe., T. Carney	Carrying apparatus, J. Anderson 606,618	
Wythe.         606,324           Cash register, T. Carney.         606,188           Cask or barrel manufacturing machinery.         R. College           Len.         606,188           Casket, T. H. Linahan.         606,468           Caster, J. A. Kennedy-McGregor.         606,462           Caster, Merritt & Groff.         606,394           Cement, making slag.         C. J. Curtin.         606,278           Chair.         See Adjustable chair.         606,488           Chinney cleaner.         A. Messenger.         606,567           Chlorin derivatives of toluene, making.         P. P.		
Cask of barrer manufacturing maciniery, R. 00-   len.	Wythe 606,324	H
Chlorin derivatives of toluene, making, P. P.		
Chlorin derivatives of toluene, making, P. P.	Cask pitching apparatus, P. Sherrer	
Chlorin derivatives of toluene, making, P. P.	Casket, T. H. Linahan 606,466 Caster, J. A. Kennedy-McGregor 606 462	
Chlorin derivatives of toluene, making, P. P.	Caster, Merritt & Groff. 606.334	
Chlorin derivatives of toluene, making, P. P.	Chair. See Adjustable chair.	
Chlorin derivatives of toluene, making, P. P. Monnet 606,470	Chimney cleaner. A. Messenger	
	Chlorin derivatives of toluene, making, P. P. Monnet	1

Chute and crib, revolving coal, R. T. Darrah. Cigar tip cutter, T. A. Cole. Cigarette, H. Golden farb. Clamp. See Belt clamp. Fence clamp. Sewi	606,520 606,377 606,537
Clamp. See Belt clamp. Fence clamp. Sewi machine presser clamp.	ng ene 509
Clock, carriage, H. W. Mitchell Clothes drier, E. A. Williston.	606,568 606,401
Clutch, friction, Worrall & Lesperance Coal burner, pulverized, G. W. Prescott	606,634 606,239
Cock, stop and waste, J. H. Glauber Coin operated mechanism, J. D. Kneedler	606,477 606,535 606,463
machine presser clamp. Clevis, plow, A. Braatz Clock, carriage, H. W. Mitchell Clothes drier, E. A. Williston Clothes line, P. Sinnott. Clothes line, P. Sinnott. Coal burner, pulverized, G. W. Prescott Coat support, J. T. Stevens Cock, stop and waste, J. H. Glauber. Coin operated mechanism, J. D. Kneedler Collar blanks, etc., machine for forming a folding, A. D. Fenwick Combs, apparatus for drawing off in circle, Lo	nd 606,528
& Foster. Cooking utensil, A. F. Humphrey. Corn binder bundle carrier Pridmore & Jol	606,564 606,552
counter cutting machine, D. L. Chandler. Coupling. See Car coupling. Pipe coupling. The	606,579 606,355 606,375
Coupling. See Car coupling. Pipe coupling. The coupling. The coupling. Cows from kicking, device for preventing, C.	nili
coupling. Cows from kicking, device for preventing, C. Eidsmoe. Crotchet or lace holder. W. O. Hill. Cross tie, metallic, W. F. Penner. Crushing roll, A. Pesant. Current indicator, T. W. Varley. Curtain fixture, J. B. Bullis. Curtain fixture, A. S. Lord. Curtain folding machine, J. Heselwood. Cutter. See Cigar tip cutter. Meat or vegeta cutter. Pectato cutter. Cycle, J. A. Wronski. Dental base plate, W. R. Evans. Dental matrix retainer, J. W. Ivory. Dental matrix retainer, J. W. Ivory. Dental mouth mirror, C. Harnden. Desk attachment, W. H. Carrier. Disinfecting apparatus, F. Gizzi. Display rack, H. D. Wells. Distance traveled by cars, etc., mechanism indicating, J. H. Whiting. Double or compound fork, E. M. Bradley. Dress guard attachment, W. Shirley. Dress shield, B. F. Sutton. Drier. See Clothes drier. Glove drier.	A. 606,481 606,215
Cross tie, metallic, W. F. Penner. Crushing roll, A. Pesant. Current indicator, T. W. Varley	606,577 606,234 606,369
Curtain fixture, J. B. Bullis. Curtain fixture, A. S. Lord. Curtain folding machine. J. Heselwood	606,442 606,468 606,341
Cutter. See Cigar tip cutter. Meat or vegeta cutter. Pipe cutter. Potato cutter. Cycle I A Wronski	ble 606 323
Dental base plate, W. R. Evans.  Dental matrix retainer, J. W. Ivory.	606.198
Desk attachment, W. H. Carrier.  Disinfecting apparatus, F. Gizzi	606,514
Distance traveled by cars, etc., mechanism indicating, J. H. Whiting	for 606,258
Dress guard attachment, W. Shirley Dress shield, B. F. Sutton	606,372 606,492 606,251
Drill See Electric drill	
Drills, etc., machine for shaping or forging a sharpening rock, S. P. Quick Dye and making same, blue, B. Heymann Dye and making same, blue azin, ott & Kroeb Dye and making same, blue tertrazo, J. Be	606,390 606,212 er 606,295
Dye and making same, blue tertrazo, J. Bamann.  Dye and making same, dark blue tetrazo, Bammann	606,181
Bammann.  Dye, blue, F. Bender.  Dye, blue, F. Bender.	606,264 606,436 606,438
Dye, green disazo, F. Bender. Dye, yellow brown cotton, R. Demuth.	606,193
Bammann. Dye, blue, F. Bender. Dye, blue black, F. Bender. Dye, green disazo, F. Bender. Dye, green disazo, F. Bender. Dye, yellow brown cotton, R. Demuth. Electric drill, portable, E. Holmes. Electric machine, dynamo, R. S. Dobble. Electric motor, J. G. Truman. Electrical communication, system for, A. Brown	606,549 606,407 606,605
Discharge distribution and tom Cooks & Toman	coc con
Electromotive force, regulation of rotary tra former direct current, B. G. Lamme Elevator safety device, R. Paroselli Engine. See Explosive engine, Gas engine. I draulic engine. Locomotive engine. Rot engine. Self lubricating engine.	606,51°0 606,489
Engine. See Explosive engine. Gas engine. I draulic engine. Locomotive engine. Rot engine. Self lubricating engine.	Hy- ar <b>y</b>
engine. Self lubricating engine. Engine muffler, G. L. Gardner Engines, electric igniter for gas, A. J. Tackle. Envelope, J. A. Lefferts. Envelope, G. Southard. Envelope fastener, W. Barnard. Envelope opener, W. Yates. Excavation extension brace, J. K. Murphy Excavation extension brace, J. K. Murphy	606,280
Envelope, G. Southard. Envelope fastener, W. Barnard.	606,366
Excavation extension brace, J. K. Murphy Explosive engine, S. Bouton	606,631
Fabrics, apparatus for applying liquids to text F. Girard. Farm gate, T. C. Lippitt	606,454 606,467
Feed water regulator, L. Dery	606,339
Fence, Flesher & Crisler, Fence clamp, wire, F. Johnson Fence compensator, wire, S. C. Bowen	606,530 606,461 606,506
Fence machine, A. L. Kitselman	606,420 606,558 606,182
Fence, I. N. Feltenberger. Fence, Flesher & Crisler. Fence clamp, wire, F. Johnson. Fence compensator, wire, S. C. Bowen. Fence machine, A. L. Kitselman. Fence post, L. E. Ketchum Fence spacer, wire, C. Baxter. Fence stay weaving device, Baxter & Schrade Fence tightener, wire, S. C. Bowen. Fencing, woven wire, A. L. Kitselman. File and locking mechanism, card indexing. Hamilton.	606,558 606,182 er606,266 606,505
File and locking mechanism, card indexing, Hamilton. File, letter, C. C. Boykin. Filter, W. A. Hull. Filter, O. H. Jewell (reissue).	H. 606,286
Filter, W. A. Hull Filter, O. H. Jewell (reissue). Filter, J. Wilson. Filter water, H. Snell Filtering apparatus, G. G. Fryer. Firerarm sight, S. E. Fischer. Fire hydrant, N. Barry, Jr. Fireproof mask, P. Dallinger Fireproof partitions, skeleton structure for Kuhne. Fireproof plastering support, A. Kuhn.	606,592
Fire hydrant, N. Barry, Jr. Fire proof mask, P. Dallinger.	606,500
Kuhne	606,348 606,387
Flashlight powder apparatus, A. Hemsley Fluid meter, prepayment, H. Green Fluid pressure motor, P. Schlachter	606,340 606,625 606,304
Kuhne.  Fireproof plastering support, A. Kuhn.  Fiashlight powder apparatus, A. Hemsley  Fluid meter, prepayment, H. Green  Fluid pressure motor, P. Schlachter  Fodder bundler, H. J. Kester  Fodding box, A. O. Hubbard  Food compound and making same, W. Gebhakork.	606,287 606,459 ardt 606,624
Fountain. See Aerated water fountain.	
Fruit picker, Drysdale & Raburn. Fumigator, J. T. Commoss Furnace, W. Stubblebine Furnace, F. E. Swift.	OUD.THE
of, I. C. Goodridge	606.483
Gas burner, R. Momand Gas compressor, J. Sedlacek. Gas engine, T. H. Hicks	606,225 606,430 606,386
Gas forming apparatus, D. Clegg. Gas generating apparatus, acetylene, Grenie Grand.	606,189 r & 606,539
Grand. Gas generating gas fixture. J. F. Williams. Gas generator, acetylene, H. Schneckloth Gas tip, acetylene, L. K. Bohm	606,435 606,305 606,441
Gas generating gas inture. J. F. Williams. Gas generator, acetylene, H. Schneckloth Gas tip, acetylene, L. K. Bohm. Gate. See Farm gate. Railway safety gate. Gate, C. D. Bell. Gate, S. Stout	606,502 606,250
Generator. See Gas generator. Smoke generator. Glass worker's tool, L. Friedrich	era- 606,200
tor. Glass worker's tool, L. Friedrich Glove, L. A. Van Praag. Glove drier, J. W. Hull Governor, explosive engine, H. P. Maxim Grading and ditching machine, C. F. Hinman Hame or collar fastener, C. J. D. Strohecker. Hammer, power, C. A. Vaughn Hammock frame, A. A. Young Hanger. See Shaft hanger. Harrow, rotary, R. Rakestraw Harrow, rotary, R. Rakestraw	606,399 606,628 606,425
Grading and ditching machine, C. F. Hinman Hame or collar fastener, C. J. D. Strohecker Hammer, power, C. A. Vaughn	606,216 606,598
Hammock frame, A. A. Young	606,616
Harvester, potato, J. N. Cocker (reissue) Hat guard, W. Lord	606,486
Hammock frame, A. A. Young, Hanger. See Shaft hanger, Harrow, rotary, R. Rakestraw. Harvester, potato, J. N. Cocker (reissue) Hat guard, W. Lord., Heating or vulcanizing apparatus, G. W. Slat Heel, J. E. O'Neill., Honge, lock, W. M. Hotaling, Hoof pad, C. J. Horton, Hook, See Pall hook, Whimmetree hook, Horse detacher, C. F. Kincheloe. Hub, vehicle, W. T. Lewis, Hydraulic engine, J. Gill.	606,229
Hook. See Pail hook. Whiffletree hook. Horse detacher. C. F. Kincheloe	606,419
Hub, venicie, W. T. Lewis.  Hydraulic engine, J. Gill.  Hydrocarbon burner, liquid, G.W. Prescott.  Incandescent burner protector, J.W. McKn  Incandescent lights, mantle or hood for W.	606,337 606,238
Incandescent burner protector, J. W. McKn Incandescent lights, mantle or hood for W bach or other. J. Moeller	ight 606,226
Incandescent lights, mantle or hood for W bach or other. J. Moeller. Indicator. See Cash indicator. Current ind tor. Station indicator. Valve indicator. Ink. printing, F. B. Hall	ica 606,542 606,595
Iron making planished sheet, J. Stephens Ironing table, W. E. Harriman	606,595 606,210
Jar and can opener, fruit, J. J. Schairer   Jewelry, article of, F. X. Zirnkilton	606.587 606,617 606,622
Kite, J. F. Cooley Knitti ng machine, circular warp, A. E. Lind 606,35 Knob attachment, J. H. Shaw	ner, 1 to 606,353
Label. druggist's and medicine, Harris & Stal Labeling machine, can, T. C. Northcott et al. Ladder, extension, F. Heine.	hl 606.457 606,227
Lamp, R. D. Cody  Lamp, acetylene gas, G. E. Hesse	606,445
Latch, H. E. Russell	606,246
Lid for pots, etc., J. W. Strother Lifter. See Sash lifter. Liquid conveyer, W. J. York	606,615
Lock. See Seal lock. Lock, J. A. Gray	606.282 606,633
Locomotive, oil burning, G. W. Prescott Loom, G. F. Hutchins Lubricator, McNeil & Rogers	606,237 606,553 606,294
Kite, J. F. Cooley. Knitting machine, circular warp, A. E. Lind 606.35 Knob attachment. J. H. Shaw. Label druggist's and medicine, Harris & Sta Labeling machine, can, T. C. Nortbcott et al. Ladder, extension, F. Heine. Lamp, R. D. Cody. J. Lamp, acetylene gas, G. E. Hesse. Lamp, acetylene gas, generating, H. Oehl Latch, H. E. Russell. Latch and lock combined, O. Holmes. Lid for pots, etc., J. W. Strother. Litter. See Sash litter. Liquid conveyer, W. J. York. Lock, J. A. Gray. Locomotive engine, compound, G. S. Strong. Loomotive engine, compound, G. S. Strong. Loom G. F. Hutchins. Lubricator, McNeil & Rogers. Mat stirrer. J. A. Saladin. Manhole cover, T. P. Greger. Meat or vegetable cutter, I. P. Buckles. (Continued on page 50)	606,586 606,206 606,511
(Continued on page 30)	