

Kindly write queries on separate sheets when writing about other matters, such as patents, subscriptions books, etc. This will facilitate answering your ques tions. Be sure and give full name and address on every

Full hints to correspondents were printed at the head of this column in the issue of March 13th or will be sent by mail on request.

(12124) N. R. S. asks: Will you be good enough to supply me the following information? I wish to have some information subject matter, an impression which is furtheras to reinforced concrete construction. One of my friends writes me a letter whose substance in asking the information is as follows: My attention has been lately drawn to reinforced concrete construction. This method of construction is, I believe, largely adopted in America, and also to some extent in England and France. I am inclined to give it a trial, and construct one of my buildings entirely on that principle. I have, however, just ful English rendering. This latest excursion of heard that this construction is likely to col- Arrhenius's into the field of astronomy is praclapse after a few years, owing to the corrosion of the metal which is imbedded in the concrete in order to strengthen and support the construction. Will you get me some information on this subject which may tend to definitely dispel or confirm my doubts?" I shall be much obliged if you will send some information on the above subject, or direct me to any other reliable and authentic source. A. We can, if you desire it, give you references to articles in our paper or books on the subject confirming our opinion, but without waiting to look these up we can assure you that your friend is entirely mistaken in the supposition that metal reinforcement in concrete is corroded by any action of the cement. Neat Portland cement, even in thin layers, is an effective preventive of rust. Tools have been taken out of concrete known to have been under water for four hundred years, as bright as when new. Iron rods have been partly imbedded in some experimental blocks of concrete exposed to sea air, and after the external part of the iron had entirely rusted away the imbedded part had not appreciably lost weight. Concrete to be effective in preventing rust, however, must be dense and without cracks, failures in reinforced concrete or corrosion of the inclosed metal being almost invariably traceable to bad workmanship. The concrete should be liquid enough to be tamped closely around the iron, and this is especially important in cinder concrete on account of the moisture absorbed by the cinders.

(12125) P. G. asks: Will you please Roads. Va. The question is this: What gives the stereoscopic effect? When I moved my head sidewise, it had the vision of distance. Of course, the picture was on a cur-Where was the machine located that projected the (moving) picture? There was that the sense of distance of the screen is producing the effect. The lantern may have been at the back of the screen, and the latter office to which you refer are Moore lamps, similar in principle to the Cooper-Hewitt mercury vapor lamp, i. e., the light being caused by the vibrations set up in the passage of an electric current through a partial vacuum containing a residue of rarefied gas. The gas in the Moore lamp is a secret mixture, probably containing mercury vapor and something else.

(12126) E. L. B. asks: Please state in Notes and Queries the reason limestone is used in smelting iron ore. A. Limestone is added to iron ore in the blast furnace because it is the most readily obtainable and cheapest flux. Iron ore consists generally of iron oxide mixed with a gangue or earthy matter which is most commonly silicious. The silica is infusible by itself, but in contact with iron oxide at a high temperature combines readily into silicate of iron, forming slag. To prevent the great waste of iron which would result from the combination of the gangue with the metal of the ore, it is necessary to provide a material with which the silica will readily unite, forming a fusible slag, substances thus added to take up the gangue of the ore and other impurities being known as fluxes. Silica being acid requires a base such as lime, and the slag formed is silicate of lime. The use of fluxes constitutes one of the most important their observations are based on ignorance or tation established by its predecessors. Whereas so far reaching an influence upon the student improvements ever introduced into the manuprejudice, except his candid sincerity in refusfacture of iron, making it possible to reduce ing to accept from them exorbitant praise when a

the metal from enormous quantities of lean ore containing as little as 25 per cent of metallic iron, whereas it was formerly unprofitable to treat ores containing much less than 70 per cent.

NEW BOOKS, ETC.

THE LIFE OF THE UNIVERSE AS CONCEIVED BY MAN FROM THE EARLIEST AGES TO THE PRESENT TIME. By Svante Arrhenius. Translated by Dr. H. Borns. Illustrated. Two volumes. London and New York: Harper & Co., 1909. 16mo. Price, 75 cents.

The original title of this work reads in Gernan "Die Vorstellung vom Weltgebäude im Wandel der Zeiten," from which it would seem that "Life of the Universe" hardly covers the more borne out when it is considered that Arrhenius in this work is concerned not so much with the possibility of life on other worlds, but rather with the evolution of cosmical ideas. Dr. Borns's translation (probably made from the German of Bamberger, and not from the original Swedish) is not what might be termed idiomatic. Many a Teutonism creeps in, but on the whole he has given a very faithtically without a counterpart in astronomical literature. The histories of astronomy written by Delambre and by Berry are chronologies with critical comments rather than attempts at explaining the evolution of modern astronomical conceptions. Arrhenius traces the evolution of astronomical thought from the cos mogony of primitive races through the creation myths of the ancients, the philosophic systems of antiquity, and the more scientific speculations of Copernicus and Kepler, until he arrives at the Laplacean nebular hypothesis and its modifications. If there is any truth in Haeckel's dictum that a true understanding of a science can be acquired only by a study of its evolution, then Arrhenius's book may be regarded as one of the most admirable astronomies ever written.

HYDROELECTRIC DEVELOPMENTS AND ENGI-NEERING. A Practical and Theoretical Treatise on the Development, Design, Construction, Equipment, and Operation of Hydroelectric Transmission By Frank Koester, Consulting Engineer, Assoc. Mem. Am. Inst. E. E., Member Society German Engineers (Berlin). With 500 illustrations. New York: D. Van Nostrand Company. 4to.; pp. 454. Price, \$5 net.

In writing this volume it was the author's intention to present a comprehensive survey of the most advanced European and American practice in hydraulic engineering. In furtherance of that end he has given an admirable explain the following questions? I was in discussion of air shafts and equalizing cham-New York city some time ago, and while there bers in connection with pressure tunnels; seam-I visited Coney Island. I saw a show at less-welded, flangeless, telescoping penstocks to Luna Park, representing the fight between facilitate shipment and to eliminate expansion the "Monitor" and "Merrimac" in Hampton joints; siphon systems; impulse wheels with draft tubes and movable water-saving nozzles; compound turbines on a single shaft, the discharge of one being the supply of the other; rapid and complete turbine tests; thirty-thousand-volt generators and efficient devices for protecting them against lightning; novel comno shadow of the curtain. Also, please, a binations of single and three-phase generators; description of those long red tubular lights wagon-panel switchboard systems; segregation in the post office in New York city (not the and decentralization of switchboards; con-Copper-Hewitt vapor lamp). A. Without furtinuous water-flow grounders and horn gaps ther knowledge of the picture exhibit to which with micrometric setting; and two-legged transyou refer, we can only suppose that the stere- mission towers and line-crossing protection. oscopic effect mentioned is caused by the side- inasmuch as it is not the object of the engiwise position of the head, either shutting off neer as a designer of hydroelectric developthe sight of one eye or in so far straining it ments to design any particular machine, such as a turbine, generator, transformer, and the lost, the unconscious mental calculation by like, but to provide by selection, from the difwhich distance is judged requiring the equal street makes, an assemblage of machines and the monthly continuation of the index, from use of both eyes. We know of no mechanical devices, each designed to perform its particular the close of 1908, is to be found in the sucattachment to a kinematograph or bioscope for function in the most economical manner, this volume may be regarded as a handbook which THE PROPER DISTRIBUTION OF EXPENSE will enable him to have machines properly com-The red lights in the New York post bined for the purpose of generating and transmitting electric current from water power on a satisfactory commercial basis.

cloth, \$1.75.

by a perusal of this "study of progress"—such is the author's secondary title. The chancing, while on a journey, upon a centuryand errors, so much relieved the monotony of he determined to let some foreign critic be his guide on all his later journeys. The result is a painstaking comparison of practically all facturing. that has been written of America by visitors from abroad, and the extent to which they consider us worth recording may be judged from the excellent bibliography at the end of the book, comprising some hundred volumes. Nothing could be more admirable than the persistent good-nature with which the author | This number of the now widely known an-refuses to be annoyed by the occasionally nual, which circulates in every country that

is lucid and dignified, and in spite of the fragmentary nature of the subject, the book has more sustained interest than many a work of fiction with a continuous story.

OCEAN AND INLAND WATER TRANSPORTA TION. By Emory R. Johnson, Ph.D. New York: D. Appleton & Co., 1909. 12mo.; 395 pp. Price, \$1.50 net.

Some months ago it gave us great pleasure to review Dr. Johnson's "American Railroad Transportation," a most fascinating and authoritative book, which we enjoyed reading from cover to cover. When the attention of the whole country is devoted to water transportation, particularly inland waters, any book which deals with such transportation is of great interest. It therefore gives us great pleasure to make a brief mention of Dr. Johnson's later volume, which is no less complete in itself than the work relating to railroads. It is a practical and exhaustive treatise on ocean and inland water as a means of transportation, its physical and economic limits, cost, tonnage, and location. The book contains interesting illusreader exactly the information for which he is searching. The book is a most readable one, and is an authoritative work on the subject.

While the present unrest and political ferment in India are so much before the public the present work has an especial interest. The author's point of view is singularly symhas no deliberate political aim and attempts to solve no vexed questions, it sheds a great deal of light upon the complexity of the problem of British government in India. Dr. Jones's experience of India has been that of a Christian missionary and, since his attitude is affected by that capacity, his feeling treatment of his subject is remarkably free from religious prejudice. The book is as attractive to the dilettante mental traveler as it is valuable to the ethnological or political student, and is yet adaptable to reading, being as interesting wherever "dipped into" as to the continuous reader. It is ádmirably illustrated with fine photographs. the subjects including, of course, the peerless Taj Mahal and many other less known but little less beautiful gems of Oriental art.

THE ENGINEERING INDEX FOR 1908. Compiled and published by the Engineering Magazine. New York: 1909. 437 pp.; large 8vo. Cloth, \$2.

The present volume entirely lives up to the reputation of its predecessors as being the most complete, if not the only, index of all engineering literature, whether included in books, technical periodicals, or the journals and proceedings of the engineering societies. This latest volume brings the investigator down to the close of 1908, while the earlier parts enable searches such as occur in patent cases and the like to be prosecuted with a minimum of cost and delay. In this book, as in the volume is-sued last year, the "classified" system of arranging the items is followed in place of the "strict alphabetic" order of the earlier volumes. In other words, the articles indexed are first grouped under the great divisions of engineering practice to which they belong-Civil, Mechanical, Electrical, Mining, etc.—and under these again they are sub-grouped according to the recognized special divisions of each field. This is possibly one of the greatest services the index renders to its regular users cessive issues of the Engineering Magazine.

BURDEN. By A. Hamilton Church. New York: The Engineering Magazine, 1908. 16mo.; 116 pp. Price, \$1. The contents of this book, prepared orig-As OTHERS SEE Us. By John Graham inally for The Engineering Magazine, is a series Brooks. New York: The Macmillan of articles which at once took rank as a stan-Company, 1909. 8vo.; 13 ill. Price, dard reference work on one of the most diffinstant There are few of us who can fail to profit demand for these numbers has led to the republishing of the entire group in book form. An accurate distribution of general expense is author explains that he began the study by admittedly one of the most perplexing and yet one of the most important problems with old volume of the criticisms of America by an which the manufacturer must deal. The simearly traveler, which with all its limitations ple yet thorough analyses conducted in this volume, and the clear, common sense demonhis own travels by observation of change and stration presented, will furnish a reliable development since the days of the critic, that guide to the solution of highly complex conditions in factory economy. The book is a most excellent one for all who are engaged in manu-

> THE COPPER HANDBOOK. Eighth annual edition. By Horace J. Stevens. Houghton, Mich.: Published by the compiler, 1909. 8vo.; 1,500 pp.; cloth. Price, \$5.

insulting comments of foreign visitors when has postage, more than lives up to the republic difficult, indeed, to find a man who exerted complete directory of the copper mines of of the faculty with whom he came into more

superficial or unmerited. The light of after the world—their offices and officers, directors events also shows many a foreign critic once and staff, works and plant, with conc. e but vituperated as spiteful or prejudiced to have complete descriptions of the history, geography, been just and impartial. The author's style and operations of each mine—it contains a complete descriptions of the history, geography, great deal of more general interest. Even in the principal chapter of 1,185 pages describing no less than 6.767 mines there is much interesting reading even to the layman, the descriptions of Calumet and Hecla or Anaconda, for instance, being full of the romance of great industrial achievements and the conquest by American skill and enterprise of the fastnesses of nature. The book includes a glossary of mining terms and concludes with the most complete statistics of the industry, world's production of copper by countries and states, output of leading mines, variation of prices, share-holding and dividends of companies, etc. The compiler shows his confidence in the value of his work by sending it anywhere, charges prepaid, allowing a week's inspection and return of the book if not found acceptable.

> How to Appreciate Prints. By Frank Weitenkampf. New York: Moffat Yard & Co., 1908. 12mo.; 338 pp. Moffat Price, \$1.50 net.

Mr. Weitenkampf is the curator of the print department of the New York Public Library, trations and valuable statistics, which gives the and there is no better connoisseur in the world than he. His knowledge of prints and kindred material is at the disposal of all who are in any way interested in the subject. The Lenox Library, where the prints are kept at the pres-India, Its Life and Thought. By Dr. ent time, is a Mecca for students, who are I. P. Jones. New York: The Mac directed to the proper source of material by millan Company, 1909. 8vo.; 375 pp.; Mr. Weitenkampf. This qualifies him to profully illustrated with photographs. duce a very valuable treatise, which it gives Price, \$2.50. deals with "The Taste for Prints"; then comes a chapter on "Etchings"; then one on "Line Engraving"; "Mezzo-tints"; "Tint Methods"; "Stipple and Other 'Dot' Methods"; "Wood Enpathetic and unprejudiced, and while his book graving"; "Lithography"; "The Photo-mechan-has no deliberate political aim and attempts ical Process"; "Color Prints"; "Coloring"; "The Making of Prints"; and "Certain Minor Information." The book is admirably written and shows a broad and catholic appreciation of the entire subject. We have not seen such a good book on prints for many years. We congratulate Mr. Weitenkampf on the production of such an excellent book.

> ELECTRIC RAILWAY POWER STATIONS. By C. F. Swingle. Chicago: F. J. Drake & Co., 1909. 8vo.; 720 pp.; fully illustrated with photos and diagrams. Price, \$2.50.

> In this work the author attempts to include all that it is necessary for a central station engineer to know about boilers, mechanical stokers, steam engines, both turbine and reciprocating, gas engines of all kinds, pumps and auxiliaries of all kinds, dynamos, motors and switchboard instruments of every description. If this ambition were attained with complete success the book could hardly be so portable. It is possible that there may be central stations which include both gas engines, reciprocating steam engines and turbines, and operating engineers who desire all those machines described in one book, but we should say that any engineer who did not know as much of the contents of this book as applied to his particular work would prefer to learn it from separate books on the different subjects with space enough to treat them thoroughly. Questions and answers are interspersed through the book with no particular reference to the text, an examination on slide-valve setting appearing, for instance, at the end of a chapter on steam turbines. The illustrations are apparently taken principally from manufacturers' catalogues, and being photographs of half-tones does not add to their clearness. As a whole, at a time when more than ever it may be said that "of the making of many books there is no end," this work appears to us to fall naturally into the harmless but unnecessary class.

HINTS ON HOUSE FURNISHING. By W. Shaw Sparrow. New York: John Lane Company, 1909. 8vo.; 308 pp. Price, \$3 net.

The sumptuous volume before us is filled with valuable hints on house furnishing and decora-The plates are particularly well executed and are inserted, allowing the text to be printed on paper which is agreeable to the eye and to the fingers as well. After a general introduction which covers the subject in an admirable manner, the walls and their treatment are taken up, followed by the floors and their treatment; then come the ceiling, the windows, blinds, and curtains. A chapter on textile fabrics follows, and there is an interesting chapter on artificial heat and light. Then the furnishings of the house are treated. Crockery and porcelain are treated in the next chapter, and then comes a chapter on furniture and sanitary appliances. There are also chapters which give valuable hints on rooms for various uses. There is even a section on that muchneglected subject-garden furniture. It is a beautiful book which is worthy of a large sale.

THE AUTOBIOGRAPHY OF NATHANIEL SOUTH-GATE SHALER. With a Supplementary Memoir by His Wife. With illustrations. Boston and New York: The Houghton Mifflin Company, 1909. 8vo.; pp. 481. Price, \$4.

In the annals of Harvard University it would

or less intimate contact, as the late Prof. B Shaler. Memorable as his wonderful person ality undoubtedly was, the great public is probably more interested in his scientific attainments as a geologist. His special studies of oceanic shore lines, volcanoes, glaciology, and lunar geology are probably the works upon which his scientific reputation is most firmly seated. It is unnecessary for us to dwell upon that work here, largely because its merit was recognized C in his lifetime. The autobiography before us C is a charmingly written, unaffected statement of a career carefully molded from childhood, and replete with incidents that have not a little human value, inasmuch as Prof. Shaler during his long life met most of the celebrities who have ever reached Cambridge and Boston, and noted his impressions of them. The autobiography is a record of lifelong efforts to interpret the facts and mysteries of nature upon which Prof. Shaler so lovingly pondered.

COOKING FOR Two. By Jeanette M. Hill. Boston: Little, Brown & Co., 1909. 12mo.; 407 pp. Price, \$1.50 net.

This is a handbook for young housekeepers. and is designed to give cheaply and simply and in concise form those things which are essential for the proper selection and proportion of a reasonable variety of food for a family of two. Of course, by doubling the quantity of each ingredient, enough can be prepared for four or five people. The food products considered in the receipts are such as a housekeeper of average means would use on every-day occasions, with a general sprinkling of choicer articles for Sunday. Menus for a week or two in each month are given. The receipts are given with special attention to clearness of expression. The illustrations are particularly valuable. In many cases they show the modus operandi and proportions, or else the raw materials and the various steps. The half-tones are beautifully executed and they are well printed. We have not seen any cook-book for a long time which compares favorably with this one.

Legal Notices

PATENTS

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Ours is the Oldest agency for securing patents; it was **esta**bli**she**d over sixty years ago.

MUNN & CO., 361 Broadway, New York Branch Office, 625 F St., Washington, D. C,

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending September 21, 1909,

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

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Camera, motion picture, Depue & Jenkins. \$34,848 of an choop, machine for feeding. While \$34,686 in Cana, machine for feeding. While \$34,686 in Cana, machine for lining the covers of 34,758 of Car brake, C. Phillips. \$34,686 in Cana, machine for lining the covers of 34,758 of Car brake, C. Phillips. \$34,686 of Car coupling, C. A. Tower \$34,680 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,484 of Car door, R. R. Jones \$34,485 of Car door, R. P. Bollmann \$34,485 of Car lines swing device, street, W. Desilva \$34,695 of Car line saving device, street, W. Desilva \$34,695 of Car lines swing device, street, W. Desilva \$34,695 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, w. Prize. \$34,895 of Car lines swing	ŀ	Button making machine, E. Shantz Cabinet, barber's, R. A. Grieve	934,940 934,521	Ga
Camera, motion picture, Depue & Jenkins. \$34,848 of an choop, machine for feeding. While \$34,686 in Cana, machine for feeding. While \$34,686 in Cana, machine for lining the covers of 34,758 of Car brake, C. Phillips. \$34,686 in Cana, machine for lining the covers of 34,758 of Car brake, C. Phillips. \$34,686 of Car coupling, C. A. Tower \$34,680 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,484 of Car door, R. R. Jones \$34,485 of Car door, R. P. Bollmann \$34,485 of Car lines swing device, street, W. Desilva \$34,695 of Car line saving device, street, W. Desilva \$34,695 of Car lines swing device, street, W. Desilva \$34,695 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, w. Prize. \$34,895 of Car lines swing		Cabinet, revolving ribbon, J. W. Van Patten Cable hanger, W. J. Hiss, Jr	934,774 934,80 8	Ga Ga
Camera, motion picture, Depue & Jenkins. \$34,848 of an choop, machine for feeding. While \$34,686 in Cana, machine for feeding. While \$34,686 in Cana, machine for lining the covers of 34,758 of Car brake, C. Phillips. \$34,686 in Cana, machine for lining the covers of 34,758 of Car brake, C. Phillips. \$34,686 of Car coupling, C. A. Tower \$34,680 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,483 of Car coupling, C. A. Tower \$34,484 of Car door, R. R. Jones \$34,485 of Car door, R. P. Bollmann \$34,485 of Car lines swing device, street, W. Desilva \$34,695 of Car line saving device, street, W. Desilva \$34,695 of Car lines swing device, street, W. Desilva \$34,695 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, street, W. Desilva \$34,895 of Car lines swing device, w. Prize. \$34,895 of Car lines swing		Calculating machines with two counting mechanisms, controlling device for, R.		Ga
Cans. machine for lining the covers of 34,775 di metal, W. Pilinatus 334,785 de Car bompts, C. Phillips 34,786 de Car bompts, C. Phillips 34,786 de Car coupling J. Timms 34,785 de Car coupling device, energency, Turnbull 54,845 de Car coupling device, energency, Turnbull 54,845 de Car coupling device, energency, Turnbull 54,845 de Car door, R. H. Jones 34,845 de Car coupling device, energency, Turnbull 53,4450 de Car door, R. H. Jones 34,775 de Car door, R. H. Jones 34,775 de Car, hopper, E. Ullmann 34,775 de Car, hopper, E. Ullmann 34,775 de Car, hopper, E. Ullmann 34,775 de Cars schedule, G. G. Crane 34,855 de Carcinage, S. Lamb 24,775 de Cartheren 34,855 de Carcinage, S. Lamb 24,775 de Cartheren 25,775 de Cartheren 25,775 de Cartheren 25,775 de Cartheren 34,855 de Carcinage, S. Lamb 26,775 de Cartheren 25,775 de	ŀ	Camera, motion picture, Depue & Jenkins	934,894	Ge
Car doors, loading gate for, W. J. Atz. 334,496 Car. Phogas B. Williams 1934,750 Car. School and Car life sawing device, street, W. DeSliva. 394,500 Gur placer, Willox & Putman 334,767 Car schedule, G. G. Crane 334,867 Heaven and the control of t		Can tops, machine for feeding, White & Wheeler		Ge
Car doors, loading gate for, W. J. Atz. 334,496 Car. Phogas B. Williams 1934,750 Car. School and Car life sawing device, street, W. DeSliva. 394,500 Gur placer, Willox & Putman 334,767 Car schedule, G. G. Crane 334,867 Heaven and the control of t		Cans, machine for lining the covers of metal, W. Plinatus		Gla Gra
Car doors, loading gate for, W. J. Atz. 334,496 Car. Phogas B. Williams 1934,750 Car. School and Car life sawing device, street, W. DeSliva. 394,500 Gur placer, Willox & Putman 334,767 Car schedule, G. G. Crane 334,867 Heaven and the control of t		Car brake, C. Phillips Car, cash entry, P. M. Kling	934,818	Ì
Car doors, loading gate for, W. J. Atz. 334,496 Car. Phogas B. Williams 1934,750 Car. School and Car life sawing device, street, W. DeSliva. 394,500 Gur placer, Willox & Putman 334,767 Car schedule, G. G. Crane 334,867 Heaven and the control of t	ŀ	Car coupling, J. Timms Car coupling, C. A. Tower	934,582 934,948	
Car doors, loading gate for, W. J. Atz. 334,496 Car. Phogas B. Williams 1934,750 Car. School and Car life sawing device, street, W. DeSliva. 394,500 Gur placer, Willox & Putman 334,767 Car schedule, G. G. Crane 334,867 Heaven and the control of t	ŀ	Car coupling device, emergency, Turnbull & Tomlin		Gra
Car Internative device, street, W. Desliva, 39,34,750 Car schedule, G. Crane	l	Car door, R. R. Jones	934,540 934,496	Gri
Car sheedale, F. E. Canda	l	Car, Ireight railway, J. G. Stoller	934,860 I	
Casing for balances and other instruments, protecting, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,481 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,492 Harmonic protection, W. & C. & Caster for portable tables, T. & Caster for protection, W. & C. & C. & Caster for Centrifugal switch, C. L. Kennedy. 334,200 Harmon operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. W. G. & C. & Woodwordt. 334,822 He Chura operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. & G. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede C. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede G. & Woodwordt. 334,602 He Clothes drier, Quilain & Mulvaney. 334,602 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,604 He Clothes drier, Quilain & Sahaman	l	Oar placer, Wilcox & Putman	934.507	Ğü
Casing for balances and other instruments, protecting, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,481 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,492 Harmonic protection, W. & C. & Caster for portable tables, T. & Caster for protection, W. & C. & C. & Caster for Centrifugal switch, C. L. Kennedy. 334,200 Harmon operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. W. G. & C. & Woodwordt. 334,822 He Chura operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. & G. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede C. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede G. & Woodwordt. 334,602 He Clothes drier, Quilain & Mulvaney. 334,602 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,604 He Clothes drier, Quilain & Sahaman		Car standard, J. F. Fender	934,802 934,885	Ha Ha
Casing for balances and other instruments, protecting, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,481 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,492 Harmonic protection, W. & C. & Caster for portable tables, T. & Caster for protection, W. & C. & C. & Caster for Centrifugal switch, C. L. Kennedy. 334,200 Harmon operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. W. G. & C. & Woodwordt. 334,822 He Chura operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. & G. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede C. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede G. & Woodwordt. 334,602 He Clothes drier, Quilain & Mulvaney. 334,602 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,604 He Clothes drier, Quilain & Sahaman		Carriages, sleigh runner attachment for		Ha
Casing for balances and other instruments, protecting, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & A. Heusser. 334,480 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,481 Harmonic protection, W. & C. & Caster for portable tables, T. R. Trelber. 334,492 Harmonic protection, W. & C. & Caster for portable tables, T. & Caster for protection, W. & C. & C. & Caster for Centrifugal switch, C. L. Kennedy. 334,200 Harmon operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. W. G. & C. & Woodwordt. 334,822 He Chura operating mechanism, A. M. Johnson 334,537 Circuit breaker, C. & Tucker. & G. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede C. & Woodwordt. 334,627 He Claup for acks and like devices, H. R. 34,676 Holds, E. F. Herschede G. & Woodwordt. 334,602 He Clothes drier, Quilain & Mulvaney. 334,602 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,603 He Clothes drier, Quilain & Mulvaney. 334,604 He Clothes drier, Quilain & Sahaman]	Cart, hopper bottom, B. W. Parker Carton, folding, Galvin & Walters	934,831	Ha Ha
Controlled indicator, W. G. & O. 83,4500 Chance controlled indicator, W. G. & O. 83,4500 Churstmas tree holder, H. A. Balley 334,424 Churn operating mechanism, A. M. Johnson 334,532 Churn operating mechanism, A. M. Johnson 34,424 Cloth of the control of the con		Cartridge charging apparatus, O. Bengtsson Casing for balances and other instruments,	934,787	Ha
Controlled indicator, W. G. & O. 83,4500 Chance controlled indicator, W. G. & O. 83,4500 Churstmas tree holder, H. A. Balley 334,424 Churn operating mechanism, A. M. Johnson 334,532 Churn operating mechanism, A. M. Johnson 34,424 Cloth of the control of the con		Caster for portable tables, T. R. Treiber	934,526	Ha
Challence gontrolled indicator, W. G. & O. S. 934,550 (Christmas tree holder, H. A. Bailey. 934,521 (Chrut operating mechanism, A. M. Johnson 934,537 (Circuit breaker, C. A. Tucker. 934,642 (Circuit breaker, C. A. Tucker. 934,647 (Circuit breaker, C. Circuit breaker, C. Circuit, S. S. 194,194 (Circuit breaker, C. Circuit, C. Cir		M. Thinnes	934,477 934,764	He
Circuit breaker, caloric, C. C. Woodworth, 934,781 Clamp for racks and like devices, H. R. Langs. 1996 Clamp for racks and like devices, H. R. Langs. 1996 Clamp for racks and like devices, H. R. Langs. 1996 Clothes with Herscheide	ı	Chance controlled indicator, W. G. & U. S.	934,920	Hi Ho
Circuit breaker, caloric, C. C. Woodworth, 934,781 Clamp for racks and like devices, H. R. Langs. 1996 Clamp for racks and like devices, H. R. Langs. 1996 Clamp for racks and like devices, H. R. Langs. 1996 Clothes with Herscheide	ŀ	Christmas tree holder, H. A. Bailey Churn operating mechanism. A. M. Johnson	934,550 934,424 934,537	Ho
Clock E. F. Herschede	ŀ	Circuit breaker, C. A. Tucker	934,482 934,781	Ho Ho
Clock E. F. Herschede		Clamp for racks and like devices, H. R.	934,647	
Cluster socket, W. C. Jones 934,541 Clutch for concentric rotary parts, F. S. Ellett 934,597 Clutch, variable speed transmission, D. George 934,597 Cutch, variable speed transmission, D. George 934,597 Cock for mechanisms for heating liquids, automatic combined gas and water, Lisch & Rote 1. E. Brandrick 934,595 Cock for mechanisms for heating liquids, automatic combined gas and water, Lisch & Rote 1. E. Brandrick 934,595 Compass hoots, bearing taking device for, A. Per 934,595 Compass hoots, bearing taking device for, A. Per 934,595 Condust, Reliows 2. Distiprup for reinforced W. K. Fellows 2. Distiprup for reinforced W. W. K.	l	Clock, E. F. Herschede	934,913	Ho
Cluster socket, W. C. Jones 934,541 Clutch for concentric rotary parts, F. S. Ellett 934,597 Clutch, variable speed transmission, D. George 934,597 Cutch, variable speed transmission, D. George 934,597 Cock for mechanisms for heating liquids, automatic combined gas and water, Lisch & Rote 1. E. Brandrick 934,595 Cock for mechanisms for heating liquids, automatic combined gas and water, Lisch & Rote 1. E. Brandrick 934,595 Compass hoots, bearing taking device for, A. Per 934,595 Compass hoots, bearing taking device for, A. Per 934,595 Condust, Reliows 2. Distiprup for reinforced W. K. Fellows 2. Distiprup for reinforced W. W. K.		Cloth rolling tube, L. Canon	934,502	Ho
Cutcher variable speed transmission, D. 334,504 Cedeorge George G	ĺ	Clothes washer, Brooks & Crooker Cluster socket, W. C. Jones	934,501 934,541	
Coeting sheet metal, apparatus for, B. Gold- Cock, Mueller & Schuermann	ŀ	Clutch variable speed transmission D	934,597	1
Cock Mueller & Schnermann 934,688 Cock for mechanisms for heating liquids, automatic combined gas and water, Lisch & Root	ŀ	Coating sheet metal, apparatus for, B. Gold-	934,604	Ice
tomatic combined gas and water, Lisch Ooffars, holder for wing point, E. G. Skinner 334,756 Conflars, holder for wing point, E. G. Skinner 334,756 Compass boods, bearing taking device for, A. Fey	١	Cock, Mueller & Schuermann		Į¢.
Comperessed and stirrup for reinforced, \$34,433 To Condenser, electric, E. Denieport \$34,171 Ir Condimen holder, A. Wolkenstein \$34,171 Ir Condimen holder, A. Wolkenstein \$34,171 Ir Condimen holder, A. Wolkenstein \$34,483 Conveyers, load gripping mechanism for, L. C. Bavidson \$34,482 Ja Cooking device, C. B. Trescott \$34,890 Ja Corn header, kafr, M. Brown \$34,891 Ja Corn header, kafr, M. Brown \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Ja Cooking device, C. B. Ja Courstein, C. Cooking device, C. B. Ja Cooking device, C. B. Ja Courstein, C. Cooking device, C. B. Ja Cooking device, J. B. Ja Cooking device, C. B. Ja	ĺ	tomatic combined gas and water, Lisch & Root	934,555	Ice
Comperessed and stirrup for reinforced, \$34,433 To Condenser, electric, E. Denieport \$34,171 Ir Condimen holder, A. Wolkenstein \$34,171 Ir Condimen holder, A. Wolkenstein \$34,171 Ir Condimen holder, A. Wolkenstein \$34,483 Conveyers, load gripping mechanism for, L. C. Bavidson \$34,482 Ja Cooking device, C. B. Trescott \$34,890 Ja Corn header, kafr, M. Brown \$34,891 Ja Corn header, kafr, M. Brown \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Trescott \$34,891 Ja Courstein, C. Cooking device, C. B. Ja Cooking device, C. B. Ja Courstein, C. Cooking device, C. B. Ja Cooking device, C. B. Ja Courstein, C. Cooking device, C. B. Ja Cooking device, J. B. Ja Cooking device, C. B. Ja	١	Coffee grinder, I. E. Brandrick	934,590 934,766	Inc
W. R. Fellows 184,433 Condenser, electric, E. Denieport 184,433 Condount, Barble, O. A. Lutz 184,433 Condount, Barble, O. A. Lutz 184,433 Condount, Barble, O. A. Lutz 184,834 Condount, Barble, O. B. Trescott 184,834 Socoting device, C. B. Trescott 1893,485 Corer, peeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,485 Corer, beeler, and slicer, apple, W. T. Ross 34,487 Culvert, J. H. Church, W. Lindesmith, 34,467 Culvert, J. H. Church, W. Lindesmith, 34,467 Culvert, J. H. Church, W. Lindesmith, 34,467 Culvert pipe, sheet metal, W. N. Klotz, 34,477 Culvert pipe, sheet metal, W. N. Klotz, 34,478 Culvert pipe, sheet metal, W. N. Klotz, 34,477 Culvert pipe, sheet metal, W. N. Kl	Ì	Compass hoods, bearing taking device for, A.	934,904	In
Cooking devices C B Trescott	l	Concrete, spring clip stirrup for reinforced, W. K. Fellows	934,433	Iro
Cooking devices C B Trescott	ļ	Condenser, electric, E. Denieport	934,714 934,493	Iro Iro
Cooking devices C B Trescott		Conduit, flexible, G. A. Lutz	934,682	Ja To
Crusher. See Ore crusher. Crusher. See Ore Crusher. Crusher. Se	ļ	Conveyers, pneumatic jet for, E. W. Rice Cooking device. C. B. Trescott	934,628 934.858	Jo
Crusher. See Ore crusher. Crusher. See Ore Crusher. Crusher. Se		Corer, peeler, and slicer, apple, W. T. Ross Corn header, kafir, M. Brown	934,840 934,656	Kı
Crusher. See Ore crusher. Cue clamp, W. H. Patterson 934,691 Cuff, R. Pennington 934,657 Culivator attachment, W. Lindesmith 934,622 La Culvert, J. H. Schlafly 934,673 Culvert pipe, sheet metal, W. N. Klotz 934,673 Currycomb, A. C. Ditmar 934,695 Cutting frature, C. W. & L. A. Friedman 934,665 Cutting round and cval holes, machine for, Waern & von Philp 934,863 Cycle, J. E. Davis 934,771 Dish drainer, T. B. Garretson 934,871 Dish drainer, T. B. Garretson 934,471 Dish drainer, T. B. Garretson 934,471 Dish drainer, T. B. Garretson 934,471 Dish drainer, T. B. Garretson 934,474 Door horp, F. R. Henry 934,477 Door holder. W. McNaughton 934,474 Door operating device, E. Posson 934,585 Dough shaping and cutting machine, D. Nemeth Carlesian 934,585 Dough shaping and cutting machine, D. Nemeth Carlesian 934,585 Dough shaping and cutting machine, D. Nemeth Carlesian 934,572 Drilling machine, multiple, W. Vosper. 934,772 Drilling machine, multiple, W. Vosper. 934,773 Electric circuit closer, coin controlled, J. B. Obermeler 934,565 Deugh paparatus, yarn, Kershaw & Cole. 934,534 Electric circuit interrupter, H. R. Stuart. 934,474 Electric circuit interrupter, H. R. Stuart. 934,465 Electric al machinery, controlling apparatus for, L. Krieger 934,670 Electrical system, F. Conrad 934,680 Electrical system, F. Conrad 934,680 Electrical system, F. Conrad 934,680 Electrical system, E. M. Roloff 934,839 Electrical system, E. M. Roloff 934,839 Electric making time, p. C. Deving 934,574 Engine sparker mechanism, internal combustion, Schaake & Cowie 934,842 Engine starter, U. M. Seyler 934,873 Electric making time, p. C. Deving 934,873 Electric making time, p. Starter 934,874 Engines, spark plug for gas, D. H. Coles 934,874 Engines sparker mechanism for, E. P. Menter 934,875 Fence staple, C. A. Miller Fence post, cement, L. C. Adams. 934,865 Epatic post, cement, L. C. Adams. 934,		Cremator and urn, combined waste, w. w.		Kı
Cultivator attachment, W. Lindesmith. 934,822 La Culvert, J. H. Schlafly. 234,673 La Culvert pipe, sheet metal, W. N. Klotz. 934,673 La Culvert pipe, sheet metal, W. N. Klotz. 934,673 La Curverycomb, A. C. Ditmar. 934,673 La Curtain fixture, C. W. & L. A. Friedman. 934,665 La Cutting round and cval holes, machine for, Waern & von Philp. 934,863 La Cutting round and cval holes, machine for, Waern & von Philp. 934,872 La Disinfectant, H. Schnelder. 934,472 La Disinfectant, H. Schnelder. 934,474 Li Door, drop, F. R. Henry. 934,772 La Door, drop, F. R. Henry. 934,774 Li Door hanger, M. E. Kanaly. 934,774 Li Door operating device, E. Posson. 934,535 Lough shaping and cutting machine, D. Nember. 934,774 Li Door operating device, E. Posson. 934,535 Lough shaping and cutting machine, D. Nember. 934,774 Li Dour holder. W. McNaughton. 934,774 Li Dour holder. 934,534 Li Dust pan, Gugora & Flamm. 934,634 Li Drier, J. M. Urgelles. 934,772 Li Drilling machine, multiple, W. W. Vosper. 934,774 Li Dour holder. 934,635 Li Dust pan, Gugora & Flamm. 934,634 Li Dust pan, Gugora & Flamm. 934,634 Li Dust pan, Gugora & Flamm. 934,634 Li Dust pan, Gugora & Flamm. 934,635 Li Dust pan, Gugora & Flamm. 934,637 Li D	į	Crusher. See Ore crusher. Cue clamp, W. H. Patterson	934,691	La
Cutting round and eval holes, machine for, Waern & von Philp		Cult. R. Pennington	934,822	La
Cutting round and eval holes, machine for, Waern & von Philp	İ	Culvert pipe, sheet metal, W. N. Klotz Currycomb. A. C. Ditmar	934.673	La
Cycle, J. E. Davis	l	Cutting round and eval holes machine for	934,665	La La
Disk plate dress, C. N. McLaughlin. 934,457 Disk plate dress, C. N. McLaughlin. 934,457 Display device, revolving card, G. R. Jaqua 934,815 Door, Jorop, F. R. Henry 934,726 Door hanger, M. E. Kanaly 934,747 Door operating device, E. Posson. 934,933 Door securer, Millis & Carlton 934,558 Dough shaping and cutting machine, D. Nemeth 934,772 Drilling machine, multiple, W. W. Vosper 934,772 Drilling machine, multiple, W. W. Vosper 934,773 Drive mechanism, C. Jensen 934,534 Dust pan, Gugora & Flamm 934,534 Dust pan, Gugora & Flamm 934,454 Dieteric circuit closer, coin controlled, J. B. Obermeler 934,474 Electric circuit closer, coin controlled, J. B. Obermeler 934,474 Electric indicator and signal, D. G. Davies 934,474 Electric indicator and signal, D. G. Davies 934,474 Electrical device joint, J. Keefe 934,462 Electrical device joint, J. Keefe 934,462 Electrical device joint, J. Keefe 934,462 Electrical system, F. Conrad 934,630 Elevator safety attachment, mine, Jolliffe & Cowan 934,576 Engine sparker mechanism, internal combustion, Schaake & Cowie 934,576 Engines, protecting device, A. W. Ackerman 934,645 Engine crank case, J. P. Landgraf. 934,670 Engines, protecting device for explosion, J. Lengel 934,554 Engine sparker mechanism internal combustion, Schaake & Cowie 934,576 Engines, spark plug for gas, D. H. Coles. 934,576 Engines, sparker prechanism internal combustion of, E. Bouchaud-Praceig 934,500 Engines, sparker prochanism for 934,655 Explosives, device of detecting decomposition of, E. Bouchaud-Praceig 934,650 Fence post brace, Ely & Flaugh 934,675 Explosives, device of detecting decomposition of, E. Bouchaud-Praceig 934,636 Fence staple, C. A. Miller 934,636 Fence staple, C. A. Miller 934,636 Fence staple, C. A. Miller 934,636 Frence staple, C. A. Miller 934,636 Frence staple, C. A. Miller 934,636 Frence staple, C. A. Wiley 934,637 Frill and similar abrading tool, T. Boswell 934,823 Filed roller, adjus	I	Cycle. J. E. Davis	934,803	La
Drilling machine, multiple, W. W. Vosper. 934,776 Drive mechanism, C. Jensen. 934,343 Dust pan, Gugora & Flamm. 934,909 Dyeing apparatus, yarn, Kershaw & Cole. 934,534 Electric circuit closer, coin controlled, J. B. Obermeler. 934,451 Dieteric circuit interrupter, H. R. Stuart. 934,455 Electric indicator and signal, D. G. Davies. 934,471 Electric motor, A. A. Prevost. 934,473 Electric motor, A. A. Prevost. 934,462 Electrical device joint, J. Keefe. 934,620 Electrical machinery, controlling apparatus for, L. Krieger. 934,859 Electrode, iron, M. Roloff. 934,596 Electrode, iron, M. Roloff. 934,816 Elevator safety attachment, mine, Jolliffe & Cowan. 934,645 Engine crank case, J. P. Landgraf. 934,645 Engine crank case, J. P. Landgraf. 934,645 Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,842 Engines starter, U. M. Seyler. 934,576 Engines, protecting device for explosion, J. Lengel. 934,650 Engines, spark plug for gas, D. H. Coles. 934,427 Envelopes and the like, machine for manufacturing, Spannuth & Dunnebier. 934,943 Ethoxyphenylamidomethane suphonate, R. Lepetit. 934,855 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,855 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,855 Fabric, making link, F. Viano. 934,423 Fence staple, C. A. Miller. 934,854 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,857 Fretilizer distributer, J. S. Kemp. 934,877 Fertilizer spreaders, feeding mechanism for, E. P. Sperry. 934,812 Fille and similar abrading tool, T. Boswell. 934,828 Fille achier, J. S. Kemp. 934,813 Fille achier, J. S. Kemp. 934,814 Fille stopper, G. B. Edwards. 934,823 Fille stopper, G. B. Edwards. 934,937 Full press and strainer, C. Schaubel. 934,937 Full press and strainer, C. Schaubel. 934,937 Full printer door operating mechanism S. A.	I	Disinfectant, H. Schneider Disk plate dress, C. N. McLaughlin	934.844 934,457	1
Drilling machine, multiple, W. W. Vosper. 934,776 Drive mechanism, C. Jensen. 934,343 Dust pan, Gugora & Flamm. 934,909 Dyeing apparatus, yarn, Kershaw & Cole. 934,534 Electric circuit closer, coin controlled, J. B. Obermeler. 934,451 Dieteric circuit interrupter, H. R. Stuart. 934,455 Electric indicator and signal, D. G. Davies. 934,471 Electric motor, A. A. Prevost. 934,473 Electric motor, A. A. Prevost. 934,462 Electrical device joint, J. Keefe. 934,620 Electrical machinery, controlling apparatus for, L. Krieger. 934,859 Electrode, iron, M. Roloff. 934,596 Electrode, iron, M. Roloff. 934,816 Elevator safety attachment, mine, Jolliffe & Cowan. 934,645 Engine crank case, J. P. Landgraf. 934,645 Engine crank case, J. P. Landgraf. 934,645 Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,842 Engines starter, U. M. Seyler. 934,576 Engines, protecting device for explosion, J. Lengel. 934,650 Engines, spark plug for gas, D. H. Coles. 934,427 Envelopes and the like, machine for manufacturing, Spannuth & Dunnebier. 934,943 Ethoxyphenylamidomethane suphonate, R. Lepetit. 934,855 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,855 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,855 Fabric, making link, F. Viano. 934,423 Fence staple, C. A. Miller. 934,854 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,857 Fretilizer distributer, J. S. Kemp. 934,877 Fertilizer spreaders, feeding mechanism for, E. P. Sperry. 934,812 Fille and similar abrading tool, T. Boswell. 934,828 Fille achier, J. S. Kemp. 934,813 Fille achier, J. S. Kemp. 934,814 Fille stopper, G. B. Edwards. 934,823 Fille stopper, G. B. Edwards. 934,937 Full press and strainer, C. Schaubel. 934,937 Full press and strainer, C. Schaubel. 934,937 Full printer door operating mechanism S. A.	ļ	Display device, revolving card, G. R. Jaqua Door, drop, F. R. Henry	934,815 934,726	Li
Drilling machine, multiple, W. W. Vosper. 934,776 Drive mechanism, C. Jensen. 934,343 Dust pan, Gugora & Flamm. 934,909 Dyeing apparatus, yarn, Kershaw & Cole. 934,534 Electric circuit closer, coin controlled, J. B. Obermeler. 934,451 Dieteric circuit interrupter, H. R. Stuart. 934,455 Electric indicator and signal, D. G. Davies. 934,471 Electric motor, A. A. Prevost. 934,473 Electric motor, A. A. Prevost. 934,462 Electrical device joint, J. Keefe. 934,620 Electrical machinery, controlling apparatus for, L. Krieger. 934,859 Electrode, iron, M. Roloff. 934,596 Electrode, iron, M. Roloff. 934,816 Elevator safety attachment, mine, Jolliffe & Cowan. 934,645 Engine crank case, J. P. Landgraf. 934,645 Engine crank case, J. P. Landgraf. 934,645 Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,842 Engines starter, U. M. Seyler. 934,576 Engines, protecting device for explosion, J. Lengel. 934,650 Engines, spark plug for gas, D. H. Coles. 934,427 Envelopes and the like, machine for manufacturing, Spannuth & Dunnebier. 934,943 Ethoxyphenylamidomethane suphonate, R. Lepetit. 934,855 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,855 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,855 Fabric, making link, F. Viano. 934,423 Fence staple, C. A. Miller. 934,854 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,856 Fence staple, C. A. Miller. 934,857 Fretilizer distributer, J. S. Kemp. 934,877 Fertilizer spreaders, feeding mechanism for, E. P. Sperry. 934,812 Fille and similar abrading tool, T. Boswell. 934,828 Fille achier, J. S. Kemp. 934,813 Fille achier, J. S. Kemp. 934,814 Fille stopper, G. B. Edwards. 934,823 Fille stopper, G. B. Edwards. 934,937 Full press and strainer, C. Schaubel. 934,937 Full press and strainer, C. Schaubel. 934,937 Full printer door operating mechanism S. A.	į	Door holder, W. W. McNaughton	934,747 934,933	i
Drilling machine, multiple, W. W. Vosper. 934,776 Drive mechanism, C. Jensen. 934,343 Dust pan, Gugora & Flamm. 934,909 Dyeing apparatus, yarn, Kershaw & Cole. 934,534 Electric circuit closer, coin controlled, J. B. Obermeler. 934,474 Dieteric circuit interrupter, H. R. Stuart. 934,474 Electric indicator and signal, D. G. Davies. 934,471 Electric motor, A. A. Prevost. 934,473 Electric motor, A. A. Prevost. 934,462 Electrical device joint, J. Keefe. 934,620 Electrical machinery, controlling apparatus for, L. Krieger. 934,820 Electrode, iron, M. Roloff. 934,596 Electrode, iron, M. Roloff. 934,830 Electrode safety device, A. W. Ackerman. 934,645 Engine crank case, J. P. Landgraf. 934,676 Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,842 Engines starter, U. M. Seyler. 934,576 Engines, protecting device for explosion, J. Lengel. 934,630 Engines, spark plug for gas, D. H. Coles. 934,427 Envelopes and the like, machine for manufacturing, Spannuth & Dunnebier. 934,630 Engines, spark plug for gas, D. H. Coles. 934,421 Engines, spark plug for gas, D. H. Coles. 934,576 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,835 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,835 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig. 934,836 Fence post brace, Ely & Flaugh. 934,931 Falltinder, T. E. Anderson. 934,834 Fence staple, C. A. Miller. 934,836 Fences of poultry or other stock yards, holder for, C. A. Wiley. 934,836 Fence staple, C. A. Miller. 934,836 Fence staple, C. A. Miller. 934,836 Fence staple, C. A. Miller. 934,836 Fence staple, C. A. Wiley. 934,831 Filled roller, adjustable, C. J. Solomon. 934,832 Fille and similar abrading tool, T. Boswell. 934,832 Fille and similar abrading tool, T. Boswell. 934,832 Fille acting machine, D. C. Dorman. 934,934 Fille stopper, G. B. Edwards. 934,937 Fulle process door onerating mechanism S. A. Pulled in the process	I	Door securer, Millis & Carlton Dough shaping and cutting machine, D. Ne-	934,558	Li
Drilling machine, multiple, W. W. Vosper. 934,751 Lord Drive mechanism, C. Jensen. 934,534 Lord Dust pan, Gugora & Flamm. 934,939 Lord Dyeing apparatus, yarn, Kershaw & Cole. 934,543 Electric circuit closer, coin controlled, J. B. Obermeier. 934,545 Lord Diversity of the Cole. 934,545 Lord Diversity of the Cole. 934,545 Lord Electric circuit interrupter, H. R. Stuart. 934,474 Lord Electric motor, A. A. Prevost. 934,462 Lord Electric device joint, J. Keefe. 934,670 Electrical machinery, controlling apparatus for, L. Krieger. 934,830 M. Elevator safety attachment, mine, Jolliffe & Cowan. M. Roloff. 934,839 M. Elevator safety attachment, mine, Jolliffe & Cowan. 934,675 M. Engine crank case, J. P. Landgraf. 934,675 M. Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,842 M. Engine starter, U. M. Seyler. 934,675 M. Lengel. 934,676 M. Engines, protecting device for explosion, J. Lengel. 934,680 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Engines, spark plug for gas, D. H. Coles. 934,534 M. Lengel. 934,630 M. M. Lengel. 934,630 M. M. Lengel. 934,630 M.		meth Dredge, J. Carlesimo Drior J. M. Urgelles	934,749 934.593 934.779	Li
Obermer States 1	I	Drilling machine, multiple, W. W. Vosper,	934.776	Lo
Obermer States 1		Dust pan, Gugora & Flamm Dyeing apparatus, yarn, Kershaw & Cole	934,909 934,543	Lo
Electric motor, A. A. Prevost. 934,462 M. Electrical device joint, J. Keefe 934,670 M. Greich in the control of		The state of a state of the sta	934,000	Lo
Electrical system. F. Conrad. 934,596 M. Electrode, iron, M. Roloff. 934,539 M. Electrode, iron, M. Roloff. 934,539 M. Elevator safety attachment, mine, Jolliffe & Cowan. 934,645 M. Elevator safety device, A. W. Ackerman. 934,645 Engine crank case, J. P. Landgraf. 934,675 M. Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,542 M. Engine starter, U. M. Seyler. 934,576 M. Engines starter, U. M. Seyler. 934,576 M. Engines, protecting device for explosion, J. Lengel. 934,680 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Envelopes and the like, machine for manufacturing, Spannuth & Dunnebler. 934,645 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Ethoxyphenylamidomethane suphonate, R. Lepetit. 934,554 M. Lepetit. 934,656 M. Engines, protecting decomposition of, E. Bouchaud-Praceig. 934,500 M. Eyeglasses, E. F. Messier. 934,855 M. Faultfinder, T. E. Anderson. 934,854 M. Fence post brace, Ely & Flaugh. 934,901 M. Fence post brace, Ely & Flaugh. 934,942 M. Fence post cement, L. C. Adams. 934,423 M. Fence staple, C. A. Miller. 934,686 M. Fences of poultry or other stock yards, holder for, C. A. Wiley. 934,686 M. Fertilizer distributer, J. S. Kemp. 934,686 M. Fertilizer spreaders, feeding mechanism for, E. P. Sperry. 934,471 M. Filtrick material, preserving composition for, Wolman & Diamana. 934,871 M. Filtrick material, preserving composition for, Molman & Diamana. 934,822 M. Friit arm attachment, W. J. Bastedo. 934,823 M. Filtrick material, preserving composition for, S. W. Crane. 934,823 M. Filtrick material, preserving composition for, Molman & Diamana. 934,823 M. Filtrick material, preserving composition for, Molman & Diamana. 934,823 M.		Electric indicator and signal, D. G. Davies. Electric motor, A. A. Prevost	934,713 934,462	Lu
Electrical system. F. Conrad. 934,596 M. Electrode, iron, M. Roloff. 934,539 M. Electrode, iron, M. Roloff. 934,539 M. Elevator safety attachment, mine, Jolliffe & Cowan. 934,645 M. Elevator safety device, A. W. Ackerman. 934,645 Engine crank case, J. P. Landgraf. 934,675 M. Engine sparker mechanism, internal combustion, Schaake & Cowie. 934,542 M. Engine starter, U. M. Seyler. 934,576 M. Engines starter, U. M. Seyler. 934,576 M. Engines, protecting device for explosion, J. Lengel. 934,680 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Envelopes and the like, machine for manufacturing, Spannuth & Dunnebler. 934,645 M. Engines, spark plug for gas, D. H. Coles. 934,427 M. Ethoxyphenylamidomethane suphonate, R. Lepetit. 934,554 M. Lepetit. 934,656 M. Engines, protecting decomposition of, E. Bouchaud-Praceig. 934,500 M. Eyeglasses, E. F. Messier. 934,855 M. Faultfinder, T. E. Anderson. 934,854 M. Fence post brace, Ely & Flaugh. 934,901 M. Fence post brace, Ely & Flaugh. 934,942 M. Fence post cement, L. C. Adams. 934,423 M. Fence staple, C. A. Miller. 934,686 M. Fences of poultry or other stock yards, holder for, C. A. Wiley. 934,686 M. Fertilizer distributer, J. S. Kemp. 934,686 M. Fertilizer spreaders, feeding mechanism for, E. P. Sperry. 934,471 M. Filtrick material, preserving composition for, Wolman & Diamana. 934,871 M. Filtrick material, preserving composition for, Molman & Diamana. 934,822 M. Friit arm attachment, W. J. Bastedo. 934,823 M. Filtrick material, preserving composition for, S. W. Crane. 934,823 M. Filtrick material, preserving composition for, Molman & Diamana. 934,823 M. Filtrick material, preserving composition for, Molman & Diamana. 934,823 M.		Electric wires, cleat for, W. F. Ritter Electrical device joint, J. Keefe	934,463 934,670	Į.
Cowan		for, L. Krieger Electrical system. F. Conrad	354,620	
Cowan Elevator safety device, A. W. Ackerman. 934,616 Engine crank case, J. P. Landgraf. 934,635 Engine sparker mechanism, internal combustion, Schaake & Cowie 934,842 M Engine starter, U. M. Seyler 934,576 M Engines, protecting device, for explosion, J. 1 Lengel. 934,680 M Engines, spark plug for gas, D. H. Coles. 934,427 M Envelopes and the like, machine for manufacturing, Spannuth & Dunnebier. 934,943 M Ethoxyphenylamidomethane suphonate, R. Lepetit 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,555 M Eyeglasses, E. F. Messier 934,855 M Eyeglasses, E. F. Messier 934,855 M Faultinder, T. E. Anderson 934,814 Fence post brace, Ely & Flaugh. 934,901 M Frece post, cement, L. C. Adams. 934,423 Fence staple, C. A. Miller 934,686 M Fences of poultry or other stock yards, holder for, C. A. Wiley 934,671 M Fertilizer distributer, J. S. Kemp 934,671 M Fertilizer spreaders, feeding mechanism for, E. P. Sperry Fibrous material, preserving composition for, Wolman & Diamana 1934,842 M Filed roller, adjustable, C. J. Solomon 934,842 M Filed roller, adjustable, C. J. Solomon 934,842 M Filed soiler, adjustable, C. J. Solomon 934,842 M Filed sam atrachment, W. J. Bastedo 934,878 M File alarm attachment, W. J. Bastedo 934,878 Fire extinguishing apparatus, tower for, J. R. McPherson 934,773 File and similar abrading tool, T. Boswell 934,828 File stopper, G. B. Edwards 934,719 Flying machine, D. C. Dorman 934,717 Food compound or condiment, S. L. Sigal 934,763 Fruit press and strainer, C. Schaubel 934,937 Fuel ignirer, A. Esposito Furnace door operating mechanism S. A.		Elevator safety aftachment mine Jollitte &	934,839	M
Engine starter, U. M. Seyler		Cowan Elevator safety device, A. W. Ackerman Engine crapt case I P Landard	934,816 934,645	1
Engines, protecting device for explosion, J. Lengel 934,680 Engines, spark plug for gas, D. H. Coles. 934,427 Envelopes and the like, machine for manufacturing, Spannuth & Dunnebier 934,943 Ethoxyphenylamidomethane suphonate, R. Lepetit 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,554 Falltinder, T. E. Anderson 934,852 Faultinder, T. E. Anderson 934,845 Fence post brace, Ely & Flaugh 934,934 Fence staple, C. A. Miller 934,486 Fences of poultry or other stock yards, bolder for, C. A. Wiley 934,779 Fertilizer distributer, J. S. Kemp 934,779 Fertilizer distributer, J. S. Kemp 934,771 Fibrous material, preserving composition for, Wolman & Diamana 934,811 Field roller, adjustable, C. J. Solomon 934,842 Fifith wheel construction, J. Repetto 934,737 File and similar abrading tool, T. Boswell 934,828 Filing cabinet, S. W. Crane 934,738 Fire extinguishing apparatus, tower for, J. R. McPherson 934,738 Filed former, H. C. Marsh 934,738 Flue former, H. C. Marsh 934,738 Flue former, H. C. Marsh 934,738 Flue former, H. C. Marsh 934,737 Flying machine, D. C. Dorman 934,717 Food compound or condiment, S. L. Sigal 934,737 Fruit press and strainer, C. Schaubel 934,937 Fuel igniter, A. Esposito 934,937 Fuel igniter, A. Esposito 934,512 Furnace door oneparating mechanism S. A.		Engine sparker mechanism, internal combus- tion. Schaake & Cowie	934.842	M
Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,500 M Eyeglasses, E. F. Messier 934,825 M Fabric, making link, F. Viano 934,852 M Faultinder, T. E. Anderson 934,874 Feeder, boiler, J. F. Senter 934,874 Feeder, boiler, J. F. Senter 934,874 Feeder, boiler, J. F. Senter 934,875 Fence post brace, Ely & Flaugh. 934,901 M Fence post, cement, L. C. Adams. 934,423 M Fence staple, C. A. Miller 934,836 M Fence staple, C. A. Miller 934,836 M Ferces of poultry or other stock yards, holder for, C. A. Wiley 934,779 M Fertilizer distributer, J. S. Kemp 934,671 M Fertilizer distributer, J. S. Kemp 934,671 M Fibrous material, preserving composition for, E. P. Sperry 934,471 M Fibrous material, preserving composition for, Wolman & Diamana 934,871 M Filed roller, adjustable, C. J. Solomon 934,882 M Filing cabinet, S. W. Crane 934,878 M Fire alarm attachment, W. J. Bastedo 934,878 N Fire extinguishing apparatus, tower for, J. R. McPherson 934,878 M Flue former, H. C. Marsh Flue stopper, G. B. Edwards 934,717 Pood compound or condiment, S. L. Sigal 934,763 Form, bust. I. Levin 934,937 Fruit press and strainer, C. Schaubel 934,937 Fruit press and strainer, C. Schaubel 934,937 Fruit press and strainer, C. Schaubel 934,937 Full purpose door operating mechanism S. A.		Engines, protecting device for explosion, J.		M M
Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,500 M Eyeglasses, E. F. Messier 934,825 M Fabric, making link, F. Viano 934,852 M Faultinder, T. E. Anderson 934,874 Feeder, boiler, J. F. Senter 934,874 Feeder, boiler, J. F. Senter 934,874 Feeder, boiler, J. F. Senter 934,875 Fence post brace, Ely & Flaugh. 934,901 M Fence post, cement, L. C. Adams. 934,423 M Fence staple, C. A. Miller 934,836 M Fence staple, C. A. Miller 934,836 M Ferces of poultry or other stock yards, holder for, C. A. Wiley 934,779 M Fertilizer distributer, J. S. Kemp 934,671 M Fertilizer distributer, J. S. Kemp 934,671 M Fibrous material, preserving composition for, E. P. Sperry 934,471 M Fibrous material, preserving composition for, Wolman & Diamana 934,871 M Filed roller, adjustable, C. J. Solomon 934,882 M Filing cabinet, S. W. Crane 934,878 M Fire alarm attachment, W. J. Bastedo 934,878 N Fire extinguishing apparatus, tower for, J. R. McPherson 934,878 M Flue former, H. C. Marsh Flue stopper, G. B. Edwards 934,717 Pood compound or condiment, S. L. Sigal 934,763 Form, bust. I. Levin 934,937 Fruit press and strainer, C. Schaubel 934,937 Fruit press and strainer, C. Schaubel 934,937 Fruit press and strainer, C. Schaubel 934,937 Full purpose door operating mechanism S. A.		Lengel Engines, spark plug for gas, D. H. Coles. Envelopes and the like machine for manu-	934,680 934,427	M
Explosives, device for detecting decomposition of, E. Bouchaud-Praceig 934,500 M Eyeglasses, E. F. Messier 934,825 M Fabric, making link, F. Viano 934,852 M Faultinder, T. E. Anderson 934,874 Feeder, boiler, J. F. Senter 934,874 Feeder, boiler, J. F. Senter 934,874 Feeder, boiler, J. F. Senter 934,875 Fence post brace, Ely & Flaugh. 934,901 M Fence post, cement, L. C. Adams. 934,423 M Fence staple, C. A. Miller 934,836 M Fence staple, C. A. Miller 934,836 M Ferces of poultry or other stock yards, holder for, C. A. Wiley 934,779 M Fertilizer distributer, J. S. Kemp 934,671 M Fertilizer distributer, J. S. Kemp 934,671 M Fibrous material, preserving composition for, E. P. Sperry 934,471 M Fibrous material, preserving composition for, Wolman & Diamana 934,871 M Filed roller, adjustable, C. J. Solomon 934,882 M Filing cabinet, S. W. Crane 934,878 M Fire alarm attachment, W. J. Bastedo 934,878 N Fire extinguishing apparatus, tower for, J. R. McPherson 934,878 M Flue former, H. C. Marsh Flue stopper, G. B. Edwards 934,717 Pood compound or condiment, S. L. Sigal 934,763 Form, bust. I. Levin 934,937 Fruit press and strainer, C. Schaubel 934,937 Fruit press and strainer, C. Schaubel 934,937 Fruit press and strainer, C. Schaubel 934,937 Full purpose door operating mechanism S. A.		facturing, Spannuth & Dunnebier Ethoxyphenylamidomethane suphonate, R.	934,943	M
Eyeglasses, E. F. Messier 934,825 M Fabric, making link, F. Viano 934,952 M Faultfinder, T. E. Anderson 934,874 Feeder, boiler, J. F. Senter 934,834 Fence post brace, Ely & Flaugh 934,901 M Fence post, cement, L. C. Adams 934,901 M Fence post, cement, L. C. Adams 934,901 M Fence staple, C. A. Miller 934,686 M Fences of poultry or other stock yards, holder for, C. A. Wiley 934,779 Fertilizer distributer, J. S. Kemp 934,671 M Fertilizer spreaders, feeding mechanism for, E. P. Sperry 934,471 M Fibrous material, preserving composition for, Wolman & Diamana 934,871 M Filed roller, adjustable, C. J. Solomon 934,932 M Fifth wheel construction, J. Repetto 934,737 N File and similar abrading tool, T. Boswell 934,882 N File alarm attachment, W. J. Bastedo 934,878 N Fire extinguishing apparatus, tower for, J. & File stopper, G. B. Edwards 934,719 Flying machine, D. C. Dorman 934,717 Food compound or condiment, S. L. Sigal 934,763 Form, bust. I. Levin 934,937 Fruit press and strainer, C. Schaubel 934,937 Fuel igniter, A. Esposito 934,512 Furnace door conerating mechanism S. A.		Lepetit	934,554	м
Faultinder, T. E. Anderson		tion of, E. Bouchaud-Praceig		⊦ M
holder for, C. A. Wiley		Faultfinder, T. E. Anderson Feeder, boiler, J. F. Senter	934,874 934,845	"
holder for, C. A. Wiley		Fence post brace, Ely & Flaugh Fence post, cement, L. C. Adams	934,901 934,423	M
Field roller, adjustable, C. J. Solomon		Fences of poultry or other stock yards,	934,086	M
Field roller, adjustable, C. J. Solomon		Fertilizer distributer, J. S. Kemp Fertilizer spreaders, feeding mechanism for	934,671	M M
Field roller, adjustable, C. J. Solomon	ļ	E. F. Sperry Fibrous material, preserving composition for,	934,471	M
Flue stopper, G. B. Edwards		Field roller, adjustable, C. J. Solomon Fifth wheel construction, J. Repetto	934,942 934,757	
Flue stopper, G. B. Edwards		File and similar abrading tool, T. Boswell, Filing cabinet, S. W. Crane	934,882 934,428	N
Flue stopper, G. B. Edwards		Fire attrim attachment, W. J. Bastedo Fire extinguishing apparatus, tower for, J. R. McPherson	934,878 934,740	0
Fruit press and strainer, C. Schaubel. 934,937 P. Fuel igniter, A. Esposito. 934,937 P. Furnace door operating mechanism. S. A.	,	Flue former, H. C. Marsh Flue stopper, G. B. Edwards	934,823 934,719	O
Fruit press and strainer, C. Schaubel. 934,937 P. Fuel igniter, A. Esposito. 934,937 P. Furnace door operating mechanism. S. A.		Flying machine, D. C. Dorman	934,717 934,763	0
Fuel igniter, A. Esposito 934,512 Furnace door operating mechanism, S. A. Holcomb 934,529 Furnaces, combined building ventilator and check for. J. Berry 934,831 Fuse box locking attachment, W. R. Vanaman 934,950 Fusee cap, F. Dutcher 934,897 Fusee cap, F. Dutcher		Fruit jar, R. N. Burgedorff	934,657 934,657	1
Hoicomp 934,529 P		Fuel igniter, A. Esposito	. 934,512	$ _{\mathbf{P}}$
Fuse box locking attachment, W. R. Vanaman 934,950 P. Fusee cap, F. Dutcher 934,897 P.		Furnaces, combined building ventilator and check for. J. J. Rorry	. 934, 52 9 1 . 934 201	P
orrusee cap, F. Dutcher		Fuse box locking attachment, W. R. Vana	934,950	P
	•	rusee cap, F. Dutcher	. 9 34,897	į P

American		
Cas hurners clobe for inverted incordescent		Dowing num
Gas burners, globe for inverted incandescent, L. W. Young L. W. Young Gas eondenser, A. W. Mockridge. Gas iron, H. E. Lucas Gas pressure regulator, J. G. Wilson Gas producer, H. I. Lea Gas purifier, H. I. Lea Gas purifying apparatus, H. I. Lea. Gate, E. L. Harper Gate, D. James Gate, I. Barker Gear, variable speed and reversing, F. W. Dodd	934,873 934,617	Paving pur Amies Photographic
Gas iron, H. E. Lucas	934,923 934,780	Piano hamm R. R. 1
Gas producer, H. I. Lea	934,446 934,448	Piano hamm R. R. I Pile fabric, Pipe connect Pipe couplin Pipe couplin
Gas purifying apparatus, H. I. Lea Gate, E. L. Harper	934,679 934,523	Pipe couplin
Gate, D. Sames Gate, I. Barker Gear, variable speed and reversing, F. W.	934,876	Kelly Pipe hanger Pipe means
Dodd	934,716 934,50 5	Pipe, means Scherer Pipe wrench Pipes and fu
Gearing, change speed, C. Cotta Gearing, transmission, W. E. Jenkins. Glass tube cutter, Ward & Guffey. Grading materials, H. K. Hitchcock. Grading materials, apparatus for, H. K. Hitchcock	934,731 934,487	Pipes and fu net for, Pipes, device
Grading materials, apparatus for, H. K. Hitchcock	934,441,	Pipes, device water, I
Graphophone start and stop mechanism, T.	934,451	Plane, bench Planer head Planters, ga
Graphophones, foot control for, T. H. Mac-		Planters, ga G. Schre Pocket, appa Poison distri
donald	934,812	Pool table to
Time	934,976	W. Kurt Power trans device,
Guide attachment, H. Holmes	934,809	Power trans Printing pre Prison signs
Faber Hammer, mechanical, J. M. Swanson. Hammeck, R. C. Funke Handle. See Brake handle. Harrow attachments with plow frames, bracket for connecting, E. M. Kramer. Harvesting machine, corn, H. F. Engelland. Harvesting machinery draft appliance, A. J. Bejot Hat ventilator. P. F. Deely	934,701 934,516	baugh Propeller, U
Handle. See Brake handle. Harrow attachments with plow frames,		Propeller, U Pruning hoo Pulp wood
bracket for connecting, E. M. Kramer Harvesting machine, corn, H. F. Engelland. Harvesting machinery draft appliance A. J.	934,448	rotary, Pump, F. I
Bejot	934,880 934,508	Punching m Punching, p
Hatch, A. N. McGray	934,456 934,912	ment, E Rail and ma
Heating plate and water heater, combined, L. Galloway	934,598	Rail, guard,
Harvesting machinery draft appliance, A. J. Bejot	934,707	Pump, F. I Pump, rotar Punching m Punching, m Rail and ma Rail clamp, Rail joint, Rail joint, Rail joint, Rail joint Rail joint Rail joint Rail search
M. Rodgers	934,759	Rail joint, Rail joint
Hook fastener, V. E. Morse Horse hopple, Leech & De Ryder	934,826 934,449	Railway cro Railway mo
Horses' feet, composition for removing corns from, Fulton & Bergeron	934,515	Storer Railway rai
Horses' feet, composition for removing corns from, Fulton & Bergeron Horse releaser, P. Thielen. Horsetail band, H. C. Unger Horsetail holder, M. R. Jones Horseshoe with removable calk, Olsen & Petersen	934,476	safety d Railway rai Railway rai
Horseshoe with removable calk, Olsen & Petersen	934,624	Kulage
Hot water and steam heater Passett &	001,021	Railway sig Railway swi Railway tie
Macbeth	934,545	Railway tie thur Railway tr
Kirk	934,544	Dodgson
Ice making and harvesting apparatus, plate, C. D. Havenstrite tee-making apparatus, artificial, O. H. Jewell	934,524	Ratchet wre
Ice-making apparatus, artificial, O. H. Jewell Ice, making artificial, O. H. Jewell Incubator, F. S. Barzee Incubator regulator, W. B. Porter Index for time tables, H. M. & E. V. Crouse Insecticide, composition for making, J. B. Irving	934,732 934,972	Reducing m Registry cer
Incubator regulator, W. B. Porter Index for time tables. H. M. & E. V. Crouse	934,652 934,754 934.658	Rheostat, H
Insecticide, composition for making, J. B. Irving Insulator pressing machine, T. T. McCann. Ironing board, A. G. Girard Ironing cabinet, G. T. Hardy Ironing machine, D. Foon Ironing machines, temperature indicator for,	934,533	Rings on b
Insulator pressing machine, T. T. McCann Ironing board, A. G. Girard	934,930 934,985	Road machi Roll, expan
Ironing machine, D. Foon	934,984	Rotary engi Rotary stea
J. Jorgenson Jar closure, C. C. Parker	934,733 934,832	Sash lock.
J. Jorgenson Jar closure, C. C. Parker Jar closure, B. F. Wilson Journal bearing, F. Latulip Kneading or mixing machinery, dough, C. E. & J. E. Pointon	934,868 934,551	Saw, buck, Saw filing Grosskor Saw filing d
& J. E. Pointon	934,834	i Saw gilline.
device, J. D. Hemphill	934,969 934,702	∣ Wilkin
& J. E. Pointon Knitting machine varn feeding and changing device, J. D. Hemphill Knob lock, W. H. Thomas Lace machine, C. Hickton Lace machines, spring dropper jacquard for levers, S. W. Hardy Ladder, safety window, J. G. Hanserd Ladle construction, R. H. Stevens Lamp, arc, H. E. Davies Lamp burner, J. H. Morrison Lamp, gas, Kotrba & Freese	934,914	Scraper, Bio Scraper, C. Screen, C.
Ladder, safety window, J. G. Hanserd Ladle construction, R. H. Stevens	934,910 934,667 934,946	Seam cutting
Lamp, arc, H. E. Davies Lamp burner, J. H. Morrison	934,796 934,453	Seed drill,
Lamp socket, cluster, W. C. Jones Lamps within their holders, means for lock-	934,542	Separating Separator, S
Lamp, gas, Kotrba & Freese Lamp, gas, Kotrba & Freese Lamp socket, cluster, W. C. Jones. Lamps within their holders, means for locking electric, Roy & Weber. Lantern, W. S. Hamm Lathe, A. Tindel	934,760 934,438 934,636	Septic tank, Sewing ma
Lens, deformed collective, Straubel & von	001,000	Sewing mac
Levels, mirror for spirit, C. A. Seibert	934,698 934,855	Shade adju Fries .
Gormley	934,806	Shade carri Britting
Liquid and gas mater F N Connet	934,467 934,504	Shade roller Fagan . Shaft coupli
Liquid, delivering, C. L. Bastian Liquid shut-off, H. Mueller Lock safety device, F. Michel Locomotive, H. R. Stafford Locomotive baffle wall, Graham & German Locomotive washout and refilling system, F.	934,956 934,620	Shaping irr M. Hal
Locomotive, H. R. Stafford	934,620 934,928 934,944	Sheet feeding Sheet metal
	934,723	Slaysma Sheet meta Schlafly
Log car, Frame & Rohlfing	934,906	Shelving, M Shipping ca
Lubricator, C. E. Graebing Lubricator, G. E. Witt Lumber, compound, C. C. Mengel Magnetic arc extinguishing means, O. A.	934,722	Ships and o
Sandborgh	934,573	Ships and for, A. Shock loade Shock loade
Mail box lock and collection indicator, com-	934,959	Shovels, bol
Mail carrier, M. Mickelson Mail collecting and delivering apparatus, E. A. Morse	934,980 934,619	Sickle har
of. H. O. Hughes	934.812	Signal syste
Massing process, C. Zimmer	934,783 934,662	Signaling a trical, Siphon head
Match safe, C. H. Paulus Measure or rule, C. Poland Mechanical drier, W. M. Cummer	934,459 934,835 934,712	Skins, appa Sl coupling
Metal planing machine, A. M. Powell Metals, depositing, C. H. Zieme Metallurgical furnace, R. Hubner	934,837 934,704 934,532	
Meter. See Liquid and gas meter. Meter controlling mechanism, electricity, E.	934,532	Snow plow, Soldering d
Evans	934,90 2 934,69 2	Soldering i electric Soldering r H. Joh
Micrometer gage, H. S. Plant Micrometer gage, F. O. Jaques Microphone desk stand, A. H. Weiss	934,69 2 934,730 934,86 5	Soles, mach
Middlings and other materials, method of and apparatus for purifying, H. S. Jewell	934,668	Sound recor Sound vibra
Milk crating device, A. N. Daton Milk, preserved, T. B. Wagner Milking machine, K. I. Lindstrom Motor control, system of electric, H. C.	934,898 934,641	Soundings, Spark arres
Motor control, system of electric, H. C. Soule	934,681 934,470	Spark arres locomot Spark arre
Motor engine, J. Harman	934,968 934,466	
Musical instrument bridge, stringed, G. D.	024 679	Sparking m
Musical instruments, apparatus for automatically playing, H. E. Green	934,606 934,745	fibers f Spoke, vehi Spreading r
Naphtha, raising, W. Mitkiewicz-Jołtok. Nut lock, J. Grimnier Nut lock, W. E. Frazze Oil burner, A. K. Lindley Oils anenchus for Papariging bydecembon	934,522 934,805	Kanfer
Oil burner, A. K. Lindley Oils, apparatus for vaporizing hydrocarbon, W. P. Flint	934,616	Spur, F. C Stackers, h
Ore crusher and pulverizer, combined, C. C.		Stave cutti
Ovens and other purposes, rack for, J. A.	934,557	Steam boile
Mathewson Packing and upholstery material, W. F. Wyman Packing for ammonia machines and the like,	994,104	Steel scrap,
metallic, G. D. Rollins	934,629	Step by ste Stock dipp cards
Paner holding device. J. B. Foster	934,701	Stone, mar
Paper making machines automatic fel- tightener for, W. J. Trempe. Papering machine, L. Nemeth Paving composition, J. H. Amies	934,85 7 934,951	Store front Stove, F. Stove, F. 1
Paving composition, J. H. Amies	934,495	Stove, E.

Amies
Plano hammer heads, repair attachment for, R. R. Rode 934,654 Pile fabric, woven, H. Le Doux 934,552 Pipe connection, A. C. Schuermann 934,983 Pipe coupling, H. Mueller 934,687 Pipe coupling for water closets, soil, J. F. 84,983 Kelly 934,975 Pipe hanger, H. C. Folger 934,663, 934,804 Pipe, means for packing nesting, A. G. 834,938 Scherer 934,938
Pipe coupling, H. Mueller 934,687 Pipe coupling for water closets, soil, J. F. Kelly 934,975
Pipe hanger, H. C. Folger
Pipe wrench, A. Stenech
Pipe hanger, H. C. Folger. 934,663, 934,804 Pipe, means for packing nesting, A. G. 934,938 Scherer. 934,945 Pipes wrench, A. Stenech 934,945 Pipes and furnace casings, manhole and bonnet for, E. Pannenborg 934,751 Pipes, device for passing cables through water, H. A. Greenan 934,924 Plane, bench, J. Lund 934,924 Planer head, J. W. Gray 934,348 Planters, gage operating mechanism for, E. G. Schrei ber 934,575 Pocket, apparel, J. Dean 934,660
Planters, gage operating mechanism for, E. 934,575 G. Schrei ber 934,660 Pocket, apparel, J. Dean 934,660 Poison distributer, H. E. Brandt 934,591 Post of the tributer of degree of the control of the contro
Pool table triangles, device for releasing, 0. W. Kurth
device, W. S. Lewis
Prison signal, automatic, Khoads & Fash- baugh 934,626 Propeller, U. B. Scott 934,633 Pruning hook J. Swegles 934,947
Poison distributer, H. E. Brandt 934,591 Pool table triangles, device for releasing, O. 934,549 Power transmission and direction changing device, W. S. Lewis 934,821 Power transmission mechanism, C. Jensen. 934,821 Power transmission mechanism, C. Jensen. 934,821 Printing press, multicolor, A. P. Harland. 934,911 Prisson signal, automatic, Rhoads & Fashbaugh. 934,633 Propeller, U. B. Scott. 934,633 Pruning hook, J. Swegles. 934,947 Pulp wood barker and peeling machine, rotary, Roberts & Libert. 934,435 Pump, F. Foley. 934,459 Punching machine, W. B. Kilgore. 934,632 Punching perforating, or stamping implement, E. W. Thurgar. 934,835 Rail and manufacture thereof, A. Busse. 934,835 Rail and manufacture thereof, A. Busse. 934,835 Rail joint, J. H. Allen. 934,635 Rail joint, J. Malterer. 934,638 Rail joint, J. Malterer. 934,638 Rail joint, G. Ferguson. 934,720 Rail joint, J. Malterer. 934,720 Rail joint, J. Malterer. 934,733 </td
Pump, rotary, A. E. Tripp
Rail and manufacture thereof, A. Busse 934,884 Rail clamp, W. I. F. Harden 934,725 Rail, guard, C. A. Alden 934,784
Rail joint, J. H. Allen 934,648 Rail joint, D. W. Alderman 934,705 Rail joint, G. Ferguson 934,720
Rail joint castings, pattern for, C. A. 934,926 Rail joint castings, pattern for, C. A. 934,703 Railway crossing O. Poston 934,836
Railway motor suspension means, N. W. Storer
Railway rail fastening device, J. Timms. 934,982
Kullay ran Joint lastening, Dreibuss & Kulage & 934,960 Railway signal, W. W. Salmon & 934,631 Railway switch, street, D. W. Heydon & 934,527 Railway tie, C. N. Thompson & 934,527 Railway tie, continuous bearing, A. McArthur & 934,561 Railway traffic controlling device, F. L. Dodgson & 934,895
Railway tie, continuous bearing, A. McAr- thur 934,561 Railway traffic controlling device, F. L.
Dodgson 934,895 Range finder, H. H. Royall 934,841 Ratchet wrench, R. F. Chapman 934,503
Ratchet wrench, Ebel & Vollfath 934,962 Reducing mill, Irven & O'Brien 934,918 Registry certificate, L. Wise 934,643 Relay safety F. J. Dodrson 924,996
Rheostat, H. T. Jones 934,973 Ribbon mechanism, E. G. Latta 934,677 Rings on bottles and other objects, device
for shrinking, R. Veeck 933,951 Road machine, F. N. Boot 934,630 Roll, expansible, F. N. Ethridge 934,964
Rotary engine, C. F. Paine 934,830 Rotary steam motor, H. R. Fisher 934,803 Sech fectages C. Singer 934,765
Sash lock, gravity, F. Bogenberger 934,655 Saw, buck, H. L. Boenman 934,499 Saw filing and setting machine, band. W.
thur Salway traffic controlling device, F. L. Dodgson 934,895 Dodgson 934,895 Range finder, H. H. Royall 934,841 Ratchet wrench, R. F. Chapman 934,503 Ratchet wrench, Ebel & Vollrath 934,962 Reducing mill, Irven & O'Brien 934,918 Registry certificate, L. Wise 934,896 Registry certificate, L. Wise 934,896 Rheostat, H. T. Jones 934,876 Ribbon mechanism, E. G. Latta 934,877 Rings on bottles and other objects, device for shrinking, R. Veeck. 934,837 Road machine, F. N. Root 934,831 Roll, expansible, F. N. Ethridge 934,964 Roof carline, A. G. Elvin 934,801 Rotary engine, C. F. Paine 934,801 Rotary steam motor, H. R. Fisher 934,801 Rotary steam motor, H. R. Fisher 934,801 Sash fastener, C. Singer 934,765 Sash lock, gravity, F. Bogenberger 934,830 Rotary steam motor, H. R. Fisher 934,803 Sash fastener, C. Singer 934,765 Sash lock, gravity, F. Bogenberger 934,830 Sash fastener, C. Singer 934,830 Saw filing and setting machine, band, W. Grosskopf 934,967 Saw filing device, E. F. Edwards 934,803 Saw guide, band, H. L. Depoy 934,833 Saw milkin knees, taper movement for, T. S. Sawmilk knees, taper movement for, T. S. Sawmilk knees, taper movement for, T. S. Saraper, Bickle & Wilson 934,653
Wilkin 934,866 Scraper, Bickle & Wilson 934,653 Scraper, C. P. Wells 934,777
Screen, C. A. Ranney
Saw glide, bank, H. Beloy 934,838 Saw mill knees, taper movement for, T. S. 934,868 Scraper, Bickle & Wilson 934,653 Scraper, C. P. Wells 934,777 Screen, C. A. Ranney 934,570 Seaming mechanism for can bodies, head, L. C. Krummel 934,921 Seed drill, G. W. Nation 934,922 Separating apparatus, H. G. Parker 934,933 Separator, S. von Grabski 934,936 Septic tank, A. W. Huhsman 934,966 Sewing machine bobbin case and tension combined, rotary, C. Winkel 934,869 Sewing machine needle guard, R. G. Woodward 934,954 Shade adjuster gage, window, Hover & 934,954
Separator, S. von Grabski
combined, rotary, C. Winkel 934,869 Sewing machine needle guard, R. G. Wood- ward
Fries
Shade roller support and shade guide, F. A. Fagan
Sheet metal blanks, machine for feeding, A. Slaysman, Jr
Shelving, M. Taussig 934,475 Shipping case, C. C. Hotchkiss 934,810 Ships and other bodies, apparatus for raising
submerged, B. Reinier 934,838 Ships and water currents, speed indicator for, A. Mensing 934,824 Shock Loader, B. F. Wilson 924,824
for, A. Mensing 934,824 Shock loader, B. F. Wilson 934,587 Shock loader, J. B. Alexander 934,646 Shovels, bolster for steam, W. Sheppard 934,941 Show card stand, J. C. Webb 934,489
Sickle bar drive connection, G. A. Nissen. 934,690 Sifter, M. C. Williams
Signal system, self answering, E. R. Gill. 934,908 Signaling and switching apparatus, electrical, R. H. Manson 934,977 Siphon head, O. L. Koscherak
Skins, apparatus for washing, C. Dufour. 934,961 S1 counting, H. H. Mohr 934,618 Slip holding clip, Root & Mooser 934,936
Smelting furnace, C. & J. Debus. 934,892 Snow Plow, O. F. Dehn 934,793 Soldering device, F. S. Chapman 934,711
Soldering from for can capping machines, electrically heat d, M. H. Johnson 934,539 Soldering machine, electrically heated, M. H. Johnson 934,538
Soles, machine for impressing the edges of shoe, L. W. G. Flynt 934,434 Sound record, P. W. Fuller 934,601
Sound vibrations, recording, P. W. Fuller. 934,600 Soundings, gage for deep sea, Mel & Jones. 934,741 Spark arrester, L. A. Thompson 934,479
elecTrically heat d, M. H. Johnson
ing locomotives. W. Dalton 934,795 Spark distributer, E. Denleport 934,715 Sparking mechanism, R. C. Marks 934,978 Spinning, apparatus for washing vegetable fibers for, E. Nemethy 934,566 Spoke, vehicle wheel, H. O. Peck 934,566
fibers for, E. Nemethy
Spur, F. C. Monier
Stave cutting machine, E. C. Thorschmidt. 934,769 Steam and liquid separator, C. E. Hylander 934,727
of, J. L. M. A. Reis
Stock dipping tank, automatic, E. M. Re-
cards 934,571 Stone, manufacturing artificial, A. Brany. 934,710 Stone molding apparatus. J. E. W. Bryning 934,791 Store front connection, E. S. Rhoads. 934,696 Stove, F. S. Lang 934,445 Stove, F. Madsen 934,739
Stove, F. S. Lang