RECENTLY PATENTED INVENTIONS. Electrical Devices.

ELECTROMAGNETIC SOUNDING APPA RATUS .- W. F. SEIDEL and E. SASSENHOFF, Elkhart, Ind. The invention relates to apparatus capable of general use but of peculiar service upon automobiles, motor-boats and the like in which it is desirable to sound signals at will. It may be operated by direct or alternating currents, and employed as a horn or whistle, and operated by hand or foot. It is easily regulated and admits of a variety of

Of General Interest.

MAILABLE BLOTTER .- G. W. SPEYER, Philadelphia, Pa. The object of the invention is to provide an article, one portion of which comprises a blotter and the remaining portion adapted to carry any desired amount of advertising matter and also the name and address of the person to whom the article is mailed. On arriving at its destination, the advertising and address sections may be torn off, leaving the blotter perfectly clean and fresh for use.

PICTURE-HANGER .- H. N. PATRICK and G. T. OGLESBY, Sheffield, Ala. In this instance the get the greatest possible temperature in the invention is an improved means for hanging feed water with the least amount of steam. or suspending pictures from walls. It provides for easily and quickly raising or lowering as required, and for locking at any required height. The rim of a disk is bent outwardly to provide increased space for the cord when wound on the pulley.

FENCE-POST.—A. M. WEATHERLY, Rome, Ga. The object of the invention is the is mixed with lime water contained in a tank provision of a double metal post which may be manufactured economically and is rigid and feed water at definite intervals. durable in use. It is adapted for use of boards, pickets, or wires comprising the body sections or portion of a fence, and may be used in line as a part of the fence proper, or as a corner therefor.

STOVEPIPE .- J. McGHIE and B. BLOOD, Spokane, Wash. The invention is an improve ment in stove and other pipe-joints and has for an object to provide a simple construction which can be easily made and which will effectually and safely couple the pipe sections so they may be conveniently detached. In practice the sections may be made with projecting hook-like tongues at one end and the beads at the other end for convenience in fitting the sections together.

DINNER-BUCKET .- J. J. Burns, Cumberland, Md. In this patent the invention is an improvement in dinner buckets intended especially for working men and others who may desire to take dinner with them, and for heating the different articles. The bucket will be found useful by hotels and restaurants for sending out hot dinners.

DEVICE FOR TEACHING PENMANSHIP.— L. G. MCCONACHIE, Madison, Wis. In the been added. Even greater in value is an adordinary school copybook used in teaching pendition at the end of the book which includes manship each page contains an engraved head- in a specific scheme all merchant ships that line or model and a dozen or more lines under- are at all removed from the "tramp" cateneath upon which the pupil endeavors to regory. The first part of the volume consists of produce the copy. The inventors object is to an illustrated description of each navy of the overcome the above objections by providing a simple and compact article of novel form.

MEASURING DEVICE.—G. F. CLARK, Tower, Minn. The object of this improvement is to provide in one compact implement, convenient for use, a board or log rule of suitable length, a short scale to take the thickness of plank or boards, and a pencil holder and a chalk holder and signal silhouettes of the ships of the navy, for respectively tallying the material as measured, and for marking the area or cubical contents of boards or logs, respectively, as they are measured.

PHOTOGRAPHER'S TRIMMING-WHEEL. L. F. SMITH, El Paso, Ill. This improvement relates to trimming wheels, that is, a device having rotary cutter, as employed by photographers for cutting photograph prints, and similar material, into circular, oval or other shape, and at the same time when desired, leave a marginal border around the picture or print, of contrasting color or tint.

Machines and Mechanical Devices.

WOVEN FABRIC.-J. K. DALKRANIAN, New York, N. Y. The object of the invention is transversely with the said selvage ground warp and interlooped with the binding weft of the woven fabric.

ENVELOP-FORMING MACHINE.-W. BARSTOW, Vicksburg, Miss. The result aimed at in this invention is the production of a machine which is adapted to be used for the purpose of forming envelops about a circular or letter which is to be sent by mail: the ar rangement being such that the envelop will be formed and sealed at substantially the same by the Clinton Wire Cloth Company, of Clinoperation. It will be useful in large offices ton, Mass., it contains a great deal of valuable

SHAFT-KEY.-W. E. LAUDERBAUCH Utica Ohio. The invention consists in providing the PITMAN'S DICTIONARY OF COMMERCIAL main body portion of the key with a reverse taper, that is, instead of tapering from the head end of the key to the point end, tapers back from the point toward the end. A wedge is placed upon the tapered side of the main body and means are provided for those having commercial relations with forholding the key and wedge in a predetermined eign countries.

is slightly larger toward the head end so that it can be driven tight in its seat.

FEEDING-HOPPER.—A. JOHNSON, York, N. Y. The improvement pertains to hoppers for feeding metal crowns or caps for bottles or other articles having inclined walls of gradually increasing diameter, to an assembling table. The object being to provide a device so constructed as to direct and deliver the articles open side, or right side upward, for receiving cork disks therein, thus obviating the necessity of manually turning the crowns, therefore saving considerable time in the assembling of parts.

Prime Movers and Their Accessories.

FEED-WATER HEATER.—M. L. CABLE, Greensboro, N. C. The invention relates to water heating systems designed for use in connection with the feed water for boilers, radiating systems and the like, in which exhaust or waste steam from an engine or the like is utilized for the purpose of heating water, the steam and water being combined in a heater before being supplied to the feed pipe connected to the boiler or other device. An object is to

WATER-PURIFYING APPARATUS FOR FEED-WATER IN STEAM-BOILERS.—J. JÖRGENSEN, Baldersgade 8, Copenhagen, Denmark. In the present patent the invention is an improvement in purifying apparatus for feed water, and relates especially to that class of purifying apparatus wherein the feed water or vessel, the lime water being supplied to the

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

NEW BOOKS, ETC.

by Fred T. Jane. London: Pub-lished for the Naval Syndicate by Sampson Low, Marston & Co., Ltd., Price, \$8.50. Oblong 4to; 1907. pp. 495.

The 1907 edition of Jane's "Fighting Ships" is marked by the accuracy and completeness which have given to this annual its widespread popularity, and there are certain new features added which greatly enhance its value. The principal addition is the treatment of merchant ships, photographs of which have now been given a national arrangement, while at the end of each of the principal navies are placed all liners which are likely to have some war use as scouts, etc., or which are subsidized. Silhouettes of these merchant ships have also world, over 400 pages being devoted to this feature alone. The information regarding each navy comprises, first, diagrams of the various flags; maps of the leading shipyards with tables of the docks, building slips, etc.; a list of private docks and yards, giving their sizes and capacities; a complete set of identification from battleships down to torpedo boats, followed by excellent silhouettes of the leading liners; tables of the types of torpedoes used, giving their principal dimensions, speeds, etc ; and tables giving full details of the naval guns employed. This is followed by a tabular description of each ship in the particular navy treated, containing all details of guns, armor, size and speed of ships, etc. With this is a side elevation and plan, showing by shading the distribution and thickness of the armor, and also, where possible, a half-tone engraving of the ship is presented. Part II. contains a series of chapters on leading topics of interest affecting naval development, written by wellknown experts on the various questions considered. There are tables giving a list of the warships of the world that are fitted with turto provide certain improvements in selvages for fabrics, notably woven pile fabrics of the oriental rug type.

The invention is bine engines; others showing ships carrying heavy armor-piercing guns; ships with water-line belts, and the ships with waterline belts are grainst various types of grainst various types. sentially in a selvage having a selvage ground warp, and a selvage binding warp interwoven transversely with the said selvage ground warp it will prove a source of continual interest and information to that increasing circle of civilians who follow closely the progress of naval development.

CLINTON WIRE LATH. Descriptions, Specifications, Applications. Clinton Mass.: The Clinton Wire Cloth Company. 8vo.; cloth; 50 pages.

Although an advertising booklet published where a great quantity of mail is sent out. information as to the use and possibilities of this very efficient building matereal.

> CORRESPONDENCE. In English, French, Spanish, and Italian. London: Isaac Pitman & Sons, Ltd., 1907. C 12mo.; 502 pages. Price, \$2.25. Cloth:

A very excellent and serviceable work for

position. The key, when assembled for use, PRECISION GRINDING. By H. Darbyshire, Cement and other products, New York: Hill Publishing Company 162 6x9 pages; 39 illustrations; tables. Price, \$2.

The author of this book, who is a wel known contributor to the columns of the American Machinist on grinding and kindred subjects, sets forth in this volume some valu able information which should be of service to users of grinding machines in general. He deals briefly and to the point with the advan tages of grinding, describes various classes of grinding wheels and methods of making and grading them, discusses speeds and feeds of wheel and work and the effect on outpu and quality of finish, of coarse and fine grits hard and soft wheels, broad and fine feeds, etc. One chapter is devoted to plain cylindrical grinding and another to plane sur face grinding in which the use of the mag netic chuck is taken up along with other mat ters pertaining to this line of operations Some causes of defective work such as tem perature, improper methods of chucking poorly fitted arbors, etc., are treated in a watthat should make this section of the bool especially useful to grinding-machine opera tors. The last two chapters of the book ar devoted to laps and lapping, and measuring tools and gages, both of which subjects are o importance in connection with the finishing of precision work.

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21 95 09 38 30 88 27 13 53 247 29	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop, G. W. Bender. Envelop blank cutter, adjustable, C. E. Cather Envelop cutting machines, feresse.	863,692 863,674 864,029 864,022 863,594 864,049 863,916 863,735 863,964 863,588 863,840
21 95 09 38 30 88 27 13 53 32 47 29 97 28	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop, G. W. Bender. Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch	863,692 863,674 864,029 864,022 863,594 864,049 863,735 863,735 863,964 863,735 863,888 863,840
21 95 98 38 30 88 27 13 53 24 29 97 28 88	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop, G. W. Bender. Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch	863,692 863,674 864,029 864,022 863,594 864,049 863,735 863,735 863,964 863,735 863,888 863,840
21 95 38 30 88 27 13 53 247 29 97 28 88 36 23 31	Ritsee Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop, G. W. Bender Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree Envelop, pay, E. C. Albree Envelop, pregistry package, I. L. King. Explosive engine, Fricke & Turner.	863,692 863,674 864,022 863,594 864,049 863,916 863,735 863,964 863,749 863,788 863,749 863,688 863,750 863,688 863,744
21 95 938 330 888 27 13 53 247 97 28 88 36 31 18 30 84	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop, G. W. Bender Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree Envelop, pregistry package, I. L. King. Explosive engine, Fricke & Turner. Explosive subtsances, apparatus for drying, P. Butler	863,692 863,674 864,022 863,594 864,049 863,916 863,735 863,964 863,749 863,749 863,749 863,758 863,749 863,758
21 95 938 388 308 21 33 32 47 29 97 28 88 36 31 31 31 31 31 31 31 31 31 31 31 31 31	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Comparison, device for preventing racing of marine, A. J. Maclean. Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Reploit outting machine, Freese. Envelop machines, deliver mechanism for, B. Pahlitzsch. Envelop machines, gumming mechanism for, B. Pahlitzsch. Envelop, pay, E. C. Albree. Envelop, pay, E. C. Albree. Envelop, registry package, I. L. King. Explosive engine, Fricke & Turner. Explosive subtsances, apparatus for drying, P. Butler. Extension table, C. Inzirilli Fan, O. Selg.	863,692 863,674 864,022 863,594 864,049 863,716 863,735 863,749 863,749 863,749 863,724 863,888 863,724 863,188 863,888 863,749 863,188
21 95 938 330 888 27 13 53 247 97 28 88 36 31 18 30 84 32	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Comparison, device for preventing racing of marine, A. J. Maclean. Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Reploit outting machine, Freese. Envelop machines, deliver mechanism for, B. Pahlitzsch. Envelop machines, gumming mechanism for, B. Pahlitzsch. Envelop, pay, E. C. Albree. Envelop, pay, E. C. Albree. Envelop, registry package, I. L. King. Explosive engine, Fricke & Turner. Explosive subtsances, apparatus for drying, P. Butler. Extension table, C. Inzirilli Fan, O. Selg.	863,692 863,674 864,022 863,594 864,049 863,716 863,735 863,749 863,749 863,749 863,724 863,888 863,724 863,188 863,888 863,749 863,188
21 95 938 338 827 1532 247 29 97 28 88 363 318 332 79 20	Ritsee Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia Engine, C. De Mattia Engine base and shaft bearings therefor, gas, Turner & Fricke Engine speed regulator, internal combustion, Grouvelle & Arquembourg Engines, device for preventing racing of marine, A. J. Maclean Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, registry package, I. L. King. Explosive engine, Fricke & Turner. Explosive subtsances, apparatus for drying, P. Butler Extension table, C. Inzirilli Fan, O. Selg Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dailey	863,692 863,674 864,022 863,594 864,049 863,916 863,735 863,964 863,749 863,749 863,749 863,754 863,749 863,753 863,934 863,838 863,934 863,935 863,93
21 95 93 33 88 27 13 53 27 27 28 88 36 31 30 84 31 30 31 31 31 31 31 31 31 31 31 31 31 31 31	Ritsee Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia Engine, C. De Mattia Engine base and shaft bearings therefor, gas, Turner & Fricke Engine speed regulator, internal combustion, Grouvelle & Arquembourg Engines, device for preventing racing of marine, A. J. Maclean Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, registry package, I. L. King. Explosive engine, Fricke & Turner. Explosive subtsances, apparatus for drying, P. Butler Extension table, C. Inzirilli Fan, O. Selg Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dailey	863,692 863,674 864,022 863,594 864,049 863,916 863,735 863,964 863,749 863,749 863,749 863,754 863,749 863,753 863,934 863,838 863,934 863,935 863,93
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21 9593888888330 888713 5327429 978 88 32311830 844 329 5449 9548331	Ritsee Electrical distribution system, W. L. Bilss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters. Embankments, dams, and the like, facing for R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, registry package, I. L. King Explosive engine, Fricke & Turner. Explosive subtsaneses, apparatus for drying, P. Butler Extension table, C. Inzirilli Fan, O. Selg Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dalley Fiber, groduction of brown shades on the, H. Schmid Fifth wheel, W. A. Schleicher Fillaments out of viscose or similar viscous material, forming, C. A. Ernst. Fille, paper, L. A. Cranston Filling case, E. G. Sampson.	863,692 863,692 864,022 863,594 864,029 864,049 863,916 863,735 863,964 863,749 863,749 863,758 863,724 863,724 863,724 863,761 863,663 863,663 863,663 863,663 863,663 863,663 863,663
21 9593830887133532729 978 88 3633183429 978 88 3633183429 990 53831 921 939 939 939 939 939 939 939 939 939 93	Ritsee Electrical distribution system, W. L. Bilss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters. Embankments, dams, and the like, facing for R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, registry package, I. L. King Explosive engine, Fricke & Turner. Explosive subtsaneses, apparatus for drying, P. Butler Extension table, C. Inzirilli Fan, O. Selg Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dalley Fiber, groduction of brown shades on the, H. Schmid Fifth wheel, W. A. Schleicher Fillaments out of viscose or similar viscous material, forming, C. A. Ernst. Fille, paper, L. A. Cranston Filling case, E. G. Sampson.	863,692 863,692 864,022 863,594 864,029 864,049 863,916 863,735 863,964 863,749 863,749 863,758 863,724 863,724 863,724 863,633 863,633 863,633 863,663 863,663 863,663 863,663 863,663 863,761 863,761 863,761
21 95938 3388273 532479 928 88 32318 33479 21 2920 21299 2129 2129 2129 21299 21299 21299 21299 21299 21299 21299 21299 21299	Ritsee Electrical distribution system, W. L. Bilss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters. Embankments, dams, and the like, facing for R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, registry package, I. L. King Explosive engine, Fricke & Turner. Explosive subtsaneses, apparatus for drying, P. Butler Extension table, C. Inzirilli Fan, O. Selg Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dalley Fiber, groduction of brown shades on the, H. Schmid Fifth wheel, W. A. Schleicher Fillaments out of viscose or similar viscous material, forming, C. A. Ernst. Fille, paper, L. A. Cranston Filling case, E. G. Sampson.	863,692 863,692 864,022 863,594 864,029 864,049 863,916 863,735 863,964 863,749 863,749 863,758 863,724 863,724 863,724 863,633 863,633 863,633 863,663 863,663 863,663 863,663 863,663 863,761 863,761 863,761
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21 959838827338479 978 88 623183842318384231831 15591855331 1559185533	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop blank cutter, adjustable, C. E. Cather Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop, pay, E. C. Albree. Envelop, registry package, I. L. King. Explosive engine, Fricke & Turner. Explosive engine, Fricke & Turner. Extension table, C. Inzirilli fran, O. Selg. Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dailey Fiber, croduction of brown shades on the, H. Schmid. Fith wheel, W. A. Schleicher filaments out of viscose or similar viscosus material, forming, C. A. Ernst. Filter, gas, Marshall & Hersey. Filter press, Arendt & Moore. Fire lighting appliance, H. M. Metzel. Firearm, automatic, W. J. Whiting. Firearms, loading device for breech-loading, G. S. Hodges.	863,692 863,692 864,022 863,594 864,029 864,049 863,916 863,735 863,964 863,749 863,750 863,724 863,724 863,688 863,724 864,143 863,633 863,943 863,963 863,760 863,760
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21 95988 8273388273388329954833 3218985 332 3218 334 329 354 3218 3218 3218 3218 3218 3218 3218 3218	Electrical distribution system, W. L. Bliss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke	863,692 863,692 864,022 863,594 864,049 863,916 863,735 863,964 863,735 863,749 863,749 863,724 863,724 864,143 863,834 863,834 863,724 864,143 864,143 864,143 864,163 863,760 863,760 863,760 863,760 863,760 863,760 863,760
21 99988 3633189449 978 8 3623189449 1299945381 21985 33282 138429 978 8 362318949 129994 129	Ritsee Electrical distribution system, W. L. Bilss Electrode joint, carbon, F. J. Tone. Elevator safety device, G. M. Peters. Elevator safety device, G. M. Peters. Embankments, dams, and the like, facing for, R. R. L. de Muralt. Engine, C. De Mattia. Engine base and shaft bearings therefor, gas, Turner & Fricke. Engine speed regulator, internal combustion, Grouvelle & Arquembourg. Engines, device for preventing racing of marine, A. J. Maclean Envelop G. W. Bender. Envelop blank cutter, adjustable, C. E. Cather Envelop machines, deliver mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop machines, gumming mechanism for, B. Pahlitzsch Envelop, pay, E. C. Albree. Envelop, registry package, I. L. King. Explosive engine, Fricke & Turner. Explosive engine, Fricke & Turner. Explosive engine, Fricke & Turner. Extension table, C. Inzirilli Fan, O. Selg Faucet, G. W. Tribbey. Feed box, I. L. Ross. Fiber decorticating machine, manila, C. E. Dalley Fiber, production of brown shades on the, H. Schmid Fifth wheel, W. A. Schleicher Filaments out of viscose or similar viscous material, forming, C. A. Ernst. Filler, gas, Marshall & Hersey. Filter press, Arendt & Moore. Filter press, Arendt & Moore. Fire lighting appliance, H. Muetzel. Firearm, automatic, W. J. Whiting Firearms, loading device for breech-loading, G. S. Hodges Fireproof stair structure, E. E. Schachner Fishing pole line guide, C. G. & W. F. Hoerle Fishing rod, C. A. Tredwell. Flat iron waxing and polishing device, S. J. Harris Float, non-collapsible, Mower & Johnson- Floor surfacer, cleaner, and polisher, A. T.	863,692 863,692 864,022 863,594 864,049 863,916 863,735 863,964 863,749 863,749 863,758 863,749 863,758 863,749 863,758 863,758 863,693 863,693 863,693 863,693 863,693 863,994 863,761 863,894 863,676
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