RECENTLY PATENTED INVENTIONS. Pertaining to Apparel.

MILLINERY DEVICE.-J. POPPER, New York, N. Y. This invention relates to a device by which one may determine the effect of any particular style of hat without having the actual hat at hand. A relatively large card or screen is provided having a display opening for the head, and a pictorial representation of a hat about the opening, a portion of which is adjustable to and from the screen in order that the effect of the hat may be obtained.

SKIRT-LIFTING DEVICE. - M. BECHER, Wilmington, Del. The object here is to provide a device arranged for attachment to the waist of a woman, to allow her to raise the skirt evenly all around and to support it in this position without requiring the use of the hand, and with a view to prevent the skirt from being soiled when walking in rainy weather, and to allow her to use both hands freely for carrying an umbrella or when entering or leaving cars and vehicles.

BOOT AND SHOE HANGER.—C. B. ROBUCK, San Bernardino, Cal. This device is adapted for use in suspending or supporting boots, shoes, the same being in the nature of a spring clamp and means for locking the shaft in a plurality draft toward the fire. adapted to embrace the heel portion of the of positions on the head.

KEY-RING TAG. article and thus hold it by friction in any position in such manner as not to obstruct the view of the same appreciably.

Electrical Devices.

MACHINE-TELEGRAPH. — G. C. READ, Davenport Station, Toronto, Canada. Read's invention refers to machine telegraphs, his more particular object being to provide a receiver system including mechanism whereby currents sent over an electric line and made up of dots and dashes, are caused to operate the keys and analogous parts of a typewriter, so as to print the letters corresponding to the telegraphic characters.

Spokane, Wash. This invention refers to electric generators of the portable manually-operated type, the more particular purpose being to provide an improved form of such generator especially suitable for blasting and having a high degree of efficiency with great mechanical strength.

ELECTROTYPE .- A. VAN WINKLE, Newark N. J. The electrotype is for use in galvanizing iron or steel in such a manner that a very heavy and smooth deposit is obtained. For this purpose use is made of a solution containing fluosilicate of zinc, in combination with certain salts, and a small quantity of gelatin or other organic substance that improves the

Of Interest to Farmers,

CULTIVATOR .- D. J. Ellis, Parlier, Cal. The invention relates to cultivators, and has for its object to provide a cultivator with teeth | device. The construction is simple and by which may be adjusted as to depth and which forming the opposing surfaces curved, the wire may also be rotated in the teeth bar so that will be tightly and firmly held, and as the curve sired angle relatively to the said bar.

PLANTER .- J. H. McCoy, Aberdeen, S. D. The aim in this improvement is to provide economic check row devices of novel construc- The invention refers to eye glasses and spection and accurate in operation and that will sacles, and the object is to provide a device for avoid the use of ropes, wires, or equivalent securely fastening the frame and lenses to-guides, and wherein the working mechanism gether without use of screws, and use is made includes means for effectually laying off or of a stud held in a post lug and extending marking the rows to be planted.

PIG-FORCEPS .- W. ROBERTSON, Vail, IOWA This invention is an improvement in pig forceps. In operation it will be found that the forceps may be easily inserted and engaged with the presenting portion of the pig, and when once engaged will retain a firm grasp thereon. The Brunswick, Germany. The invention consists different sized pairs of blades also provide for the use of the same instrument on large and

EGG-CARTON.-R. M. ODELL, Hoisington, Kan. One object of the inventor is to provide a device by which eggs may be shipped without danger of breakage, in separate cells which are so joined together as to form a single package designed to be placed in a case, and when so placed to form a rectilinear body which will act as a brace for the case itself.

POTATO-PLANTER.-G. W. NATION, Alliance, Neb. This potato planter attachment is as used in concentrating the crushed ores of for use in connection with the agricultural imprecious metals. Simple means are provided for use in connection with the agricultural implements shown and described in a co-pending application filed by Mr. Nation. In operation application filed by Mr. Nation. In operation a roller engages an arm thus swinging the latter with the means are provided account in a combination of valves for maintaining a partial prises a pair of blades or boards which are vacuum in a heating system. It is capable of vacuum in a heating system or other arrangement being such that when the implements how and described in a co-pending to maintaining a partial prises a pair of blades or boards which are combination of valves for maintaining a partial prises a pair of blades or boards which are combination of valves for maintaining a partial prises a pair of blades or boards which are combination of valves for maintaining a partial prises a pair of blades or boards which are combination of valves for maintaining a partial prises a pair of blades or boards which are combination of valves for maintaining a partial prises a pair of blades or boards which are combination of valves for maintaining a partial prises a pair of blades or boards which are constituted in the first of the provided in a co-pending to the provided in a co-pending to the first of the first of the provided in a co-pending to the provided to the provide out of a chute and dropping a potato cut into evennesses in the cover, which usually neces. apparatus where it is desired to prevent the the furrow. As soon as the roller passes the sitates the removal or replacing of the cover. end of the arm a spring immediately returns it into a pocket to engage another cut. The disks are provided with arms, which loosen the ground and cover the potato cuts deposited in the furrow.

STRAW-RACK FOR GRAIN SEPARATORS. J. P. NESTE, Lake Mills, Iowa. The purpose in this case is to provide details of construction for racks, which are adjuncts of a grain separator, whereby positively continuous and regular speed and reciprocating motion of the racks is assured, and a reliable senaration of the grain from the straw is produced while the threshing is being conducted.

PLOW-BLADE .-- O. S. JEWETT, Lordsburg, Cal. The object here is to provide a blade, which in suitable number are radially arranged and secured in lapped engagement with each other and with clamping disks, whereby a spading wheel is produced that in series is secured

on an axle at suitable intervals, said axle being means employed for securing saw handles to journaled on a frame that is adapted for progressive movement.

distance apart as may be desired, and further moval of the handle. to provide a construction which will enable the teeth to be adjusted as to their elevation to adapt the implement for use on a hillside or $\begin{tabular}{ll} \hline \end{tabular}$

PLANTER. — A. Brinkoeter, Floresville, Texas. This planter is without springs inside pressed and partly imbedded in the head to manner to hold a number of bottles in a conof the seed box which are apt to be choked or gummed by the seed or dust. The invention gummed by the seed or dust. The invention head can be employed for holding a large quanin a vessel having a scalding or sterilizing provides bottom plates and feed plates of different sizes, which may be used with seeds of extensively nailing or otherwise securing the DINNER-PAIL.—A. M. Hunt, Hampden, different sizes, and also for seed which are to ferrule to the head is obviated. be planted a greater or shorter distance apart.

are known as potato forks, and each of which in general consists of a head having a fork integral therewith, the latter being provided with of positions on the head.

Of General Interest.

CURRENT-MOTOR .-- C. A. NEYLAND, Spokane, Wash. This invention relates to wave or current motors of a class that utilize the force of a moving body of water, such as a flowing stream or tidal action, for useful effect. The purpose of the invention is to provide novel features more particularly for the current motor formerly patented by Mr. Neyland.

RELEASING DEVICE.—C. HUNT, New York, N. Y. The intention here is to provide a device arranged to permit instant releasing of the boat-lowering means from the boat as soon as the latter reaches the water, thus allowing ELECTRIC GENERATOR.—E. F. WHITE, the crew to quickly pull away from the vessel and thus prevent the boat from injury by bumping against the side of the vessel, especially if a heavy sea should prevail at the time.

> APPARATUS FOR CONSTRUCTING CON-CRETE PIPES. F. TEICHMAN, San Francisco, In this patent the invention relates to concrete pipe constructions, the more particular object being to provide certain general improvements in the molds for cheapening the the work proceeds.

> FENCE-CLAMP.-P. GREEN. Wytheville, Va. This invention is an improvement in fence clamps and relates particularly to the means whereby the lines of the wire of wire fences may be held for connection with the stretching efficiently with fewer bolts than in ordinary constructions.

FASTENING .- I. COLEMAN, New York, N. Y. gether without use of screws, and use is made through an aperture in the lens, the free end of the stud being engaged by a locking device having connection with the post.

PROCESS OF MANUFACTURING SOLUBLE locks can be employed. COMPOUNDS OF MERCURIC SALTS WITH in the application of the discovery of a process $% \left\{ 1\right\} =\left\{ 1\right\} =\left$ in which, for instance, dry hexamethylenetetramin-mercuric chlorid is mixed with an such as albumose, peptone, alkali-albuminate, solution is in an organic form and no longer precipitation of mercury.

CONCENTRATING-TABLE.—J. W. MEYERS and D. F. PAINE, Ely, Nev. The table is such

Hardware.

ANTISAGGING DEVICE FOR DOORS.—C. LEHMAN, Elgin, Iowa, The purpose in this factured at little expense, and which is adapted to lift the door to a normal position after the wearing of the hinges causes it to drop out of normal position, the support being so constructed that it is certain of operation although the pintles of the hinges are out of alinement.

LOCK. - H. C. WALDECKER, Austin, Minn. This invention pertains to locks such as used on doors. It concerns itself especially with locks which employ a latch bolt for latching the door, and a bolt for locking the door. The latch bolt is withdrawn by turning the knob, while the locking bolt is operated by a key.

Wash. The invention relates to fastening tor in position.

cross-cut saws, and the special object is to so construct the fastening means that the parts cultivator of simple construction, the teeth of might injure the hand of the workman; and which may be adjusted so as to change their which can be readily disassembled to permit re-

> BRUSH .- S. A. VER BRYCK, Belleville, N. J The purpose here is to provide a paint-brush or the like, in which the bristles are securely attached to the head of the brush, in which the

PROTECTION-NOZZLE FOR FIRE-HOSE.— AGRICULTURAL IMPLEMENT.—A. C. Nel.- M. J. Sanger, New York, N. Y. The production includes a number of traps for liquid and solid son, Nelson Township, N. D. This invention is of a nozzle having a construction which will relates more particularly to such implements as enable a protecting sheet of water to be thrown enable a protecting sheet of water to be thrown heat-supplying substances such as burning coke out from the nozzle and between the firemen and the fire, so that the firemen will be protected from the smoke and gases of combustion; a plurality of tines, a shaft having a handle and to arrange the nozzle in a way that the and other foot wear having a sole or heel crease, at its upper end pivotably secured to the head, sheet will not have the effect of producing a the mattress frame can be raised at the head

> KEY-RING TAG .-- H. E. MILLESON, Shelbyville, Ind. Mr. Milleson's invention consists in means are provided for actuating the parts and the forming of the tag of two separate plates, for maintaining the intermediate portions of the one constituting an identification plate and the mattress and the head portions of the mattress other a stamp-bearing plate, the two plates under the desired tension regardless of the adbeing so connected together that the stamp is justment of the bed. normally protected yet may be readily exposed to view.

> BELT-LACING TOOL.-J. W. KANE and W. R. CHRISTIE, New York, N. Y. This tool is adapted to be used in lacing the ends of belts together. The invention consists in a gouge desired, and a slicing knife which is adapted may be used in any connection where the conthey will fill the openings cut by the gage.
>
> LUBRICATOR FOR SAW-BLADES.—G.

HANZINGER and S. J. RONAN, Greenville, Miss. The aim in this instance is to provide a lubricating attachment which may be easily operated when required, whereby lubricant may be discharged at will upon the saw blade so that it is enabled to make a narrower and smoother kerf with less friction. Thus lubricated a blade requires less set or spread of teeth, and will do closer, smoother work with less force.

SICKLE-SHARPENER. — O. A. HAUBENbuilding of concrete pipes. An advantage lies REISSER, Little Rock, Ark. The sharpener is for use in connection with a grind stone and to in the arranging of the plates of the inner nor use in connection when a sickle bar on a Austria-Hungary. This invention consists in mold into a general spiral form to facilitate provide means for clamping a sickle bar on a Austria-Hungary. This invention consists in support mounted on the frame of the stone, particularly connecting the delay action flap A universal joint permits movement of the sickle to give it the proper angle to the stone, and a counter balanced sickle carrier is arranged to be raised or lowered and to be moved lengthwise along the stone, so that the sharpening can be performed with quickness and conven

STIRRUP.-G. W. HOOKS, Sourlake, Texas. The stirrups are made rights and lefts, the right the cutting edge may be turned to any de- prevents slipping the clamp may be operated being the exact opposite of the left, and they will always hang in proper position for the insertion of the foot without twisting the stirrup leather. The inner side will not chafe the body lates more specifically to a mill in which comof the horse. It may be made of any suitable material and form of body or foot plate to accord with the saddle.

NUT-LOCK.—W. R. GARNER, Palestine, Texas. This improvement in nut locks is especially in that class of nut locks and plates designed for use on railroad joints, frogs, cars, bridges, and the like, as well as on engines, iron fencing, buggies, wagons, and otherwise where similar

Heating and Lighting.

PETROLEUM-BURNER FOR INCANDES-CENT LIGHTS.—E. Holy, Berlin, Germany. washing fluid such as soapy water, and in which This invention relates to burners which have the articles are positioned preferably upon a equal weight of an albuminoid, soluble in water, a horizontal fiange around the top of the outer wick. This fiange is usually permanently concasein alkali or the like, and the mixture is nected with the outer wick tube, but according dissolved in a soap solution, the mercury of the to the present invention, it is made independently thereof, and is supported by the burner to be precipitated by the usual reagents for gallery, for instance, by means of arms or feet which are mounted on a ring fastened to the gallery.

VACUUM-VALVE FOR HEATING SYS-

Household Utilities.

case is to provide a device which may be manu- is intended to provide a comfortable and health- In the present patent the invention has referful position to the person, and to this end is constructed with an approximately transverse groove or depression in which the shoulder is adapted to sink, and a number of substantially longitudinal grooves intersecting the trafisverse depression to receive the forearm and a loose covering over the depi'essions.

COFFEE-POT .- T. J. CLEMENT, Atlantic City, N. J. This pot has a percolator which can be purpose here is to provide a machine, arranged readily introduced and removed. The construc- to cover a plurality of wires or cores with tion of the percolator is such that it holds itself fixed within the coffee pot, the member which | polish the covered cores and twist the same operates to hold the percolator within the pot | into a single strand, in an exceedingly simple SAW-HANDLE.—R. D. Bower, Oakville, operating also to hold the cover of the percola-

SERVING-CUP FOR BEVERAGES.-T. J. LEMENT, Atlantic City, N. J. The cup in this instance is for use in serving beverages, and it CULTIVATOR.—A. BRIGDEN, Albertville, Ala. cannot become accidentally loosened; which has improved means for refrigerating the glass. The object of the invention is to produce a presents no obstructions or sharp points which containing the beverage, to the end that a beverage can be kept cold even if allowed to stand a considerable time after having been served.

> DIPPING DEVICE FOR BOTTLES OR JARS .- B. W. McGinnis, Wichita, Kan. The device is for use in holding bottles or milk jars when they are being dipped to sterilize ferrule holding the bristles in position is com- or scald them. It can be operated in a simple hold it in place, in which a comparatively small venient manner to enable them to be dipped

> > Maine. The invention refers more particularly to devices for carrying food and the like which contents and which have means for holding or charcoal, for maintaining the contents of

BED.-W. H. CLING, Charleston, S. C. This invention shows a form of invalid bed in which and lowered at the foot to suit the necessities or convenience of the occupant. Efficient

COVER FOR TEAPOTS.-T. J. CLEMENT, Atlantic City, N. J. This invention is a division of the invention described in a patent the application of which was formerly filed by Mr. Clement. The improvement is useful in connection with any pot on which a beverage may be adapted to cut openings in the belt of any size brewed from leaves or grindings; or indeed, it to cut lacings for the belt of a size such that tents of a serving vessel should be strained be-

> ADJUSTABLE SHADE-SUPPORT.—C. P. WESTHAUSER, New York, N. Y. In this patent the invention is an improvement in shade and such like supports, the present embodiment of which belongs to that class of such devices in which the shade-supporting arms are adjustable to and from each other to accommodate shades of different length.

Machines and Mecbanical Devices.

STARTING DEVICE FOR THE COM-RESSED-AIR MOTORS OF SELF-PRO-PRESSED-AIR of ordinary construction with the reducing valve of the pressure reducer arranged between the compressed air reservoir and the motor, for dispensing with the moderating part of the air admission valve ordinarily arranged between the reducer and reservoir, and the auxiliary air supply valve for disengaging or operating the gyroscope, thereby simplifying the mechanism of the torpedo while rendering it more certain in its operation.

GRINDING AND PULVERIZING MILL.—J. J. KNIGHT, Alameda, Cal. The invention remunicating rollers are arranged in concentric circles upon a supporting member, and have concentric pressure rings arranged upon each circle of rollers and held resiliently and adjustably in position thereupon to force the rollers firmly against the supporting member.

WASHING-MACHINE.—R. Twohig, Salina, Kan. The intention is to provide a machine which can be driven by hand or by power, in which clothes, household linen, etc., can be laundried efficiently, in which the cleansing is effected by the pounding action of a beater upon the articles, which are immersed in a washing fluid such as soapy water, and in which perforated, false bottom.

ROTARY VALVE .- S. YANKAUER, New York, N. Y. An object of this invention is to provide a valve in which the valve plug is resiliently held in place, so that leakage is effectively prevented, and in which the rotation of the valve in opening and closing the same tends to continually grind the valve plug and seat and maintain a perfect fit.

GRADER OR DITCHING-MACHINE.-W. L. DAVIS, Wabbaseka, Ark. The invention comment is advanced one of these blades or boards presents itself in an inclined position so that its lower edge will operate as a scraper on the surface of the earth.

MATTRESS.—P. KLIMOWICZ and J. S. MOUNTING FOR BOTTLE-WASHING WORZALLA, Stevens Point, Wis. This mattress BRUSHES.—A. N. DAVIS, New York, N. Y. MOUNTING 'FOR ence to mechanism to be used in connection with bottle-washing brushes, the inventor's more particular nurpose being to produce a mounting provided with a spring-controlled mechanical movement for holding the brushes in good position for washing the bottle.

> WRAPPING, TWISTING, AND POLISHING MACHINE.-W. J. CAREY, Trenton, N. J. The paper or like wrapping material, and then manner and in one operation.

PARACHUTE.-T. L. ZOOK, Lima, Ohio, In

conjunction with a sail or kite to extend it; and the inventor's objects are to provide means for effecting the opening of the parachute in descent; to afford facilities for folding and stowing the device, and to provide a durable and simple construction of the several parts of the parachute and its entirety.

CAPPING-MACHINE. - C. A. YOUNGMAN Louisville, Ky. The intention of the inventor is to provide a machine, arranged to press the cap or capsule snugly onto the head and neck of the receptacle, without danger of marring the cap or capsule, or scratching or removing the paint, wax, or other material with which the cap is decorated.

Railways and Their Accessories.

SWITCH MECHANISM .- F. Young, Lowell, Ohio. The invention pertains to railway switches, and particularly to the switches of light railways such as trolley tracks. The inventor's aim is to provide means for operating the switch from the car platform so as to obviate the necessity for operating the switch follow that of the dictionary and should be by hand.

AUTOMATIC SWITCH-STAND. - E. E. STAGGS, Hachita, New Mex. An object here is to provide a switch in which the target will always indicate the true condition of the switch. This obviates a grave danger which arises from the use of switch stands of the ordinary kind since with this invention there must be a positive movement by some one who wishes the switch to be changed before the target will indicate such change. The change made, the target will be shifted to indicate the change and will be positively locked in its shifted position.

LOCOMOTIVE ASH-PAN.-J. S. DOWNING, Atlanta, Ga. The inventor's object is to provide a novel positively operating construction all photographers. This collection of formulæ for discharging ashes from the ash pan. This is one of the best that we have ever seen. It is an automatic self-cleaning ash pan having a is a book which should be in the hands of system of hoes attached to the piston rod, and a cylinder adapted to receive fluid pressure for The Angler's Guide. A Manual for reciprocating the hoes in the ash pans for discharging the ashes thereon.

RAIL CHAIR AND BRACE .- E. JANDREAU, Cherry Valley, N. Y. The object of the invention is to provide a chair and brace, by means of which railroad rails can be securely held in place upon the cross ties, and which serve to brace the rails against lateral movement at curves and other points of the track where such bracing is necessary.

METALLIC CROSS-TIE AND RAIL-CLAMP. —H. S. KILBOURNE, Washington, D. C. An object of this invention is to provide a cross-tie of light weight but strong and durable. In carrying this out I-beams of standard sizes and shapes are used, thereby reducing cost of manufacture. The tie requires but few bolts, the main connecting member being a clamp of a peculiar form.

Pertaining to Recreation.

MOVING-PICTURE DEVICE. - W. HEN DRICK, New Haven, Conn. The object of the present invention is to provide certain improvements in chaplets and shrines of the holy rosary, whereby actuating mechanism is employed and the endless web containing pictures properly actuated, to accurately display one of the pictures at a time and to display the several pictures in the proper order according to the intended devotional exercise.

Pertaining to Vehicles.

THILL-COUPLING .- V. B. HENBY and H. FINTEL, JR., Hardy, Neb. The main object in this case is to provide an improved means for enabling the draft eye to be detached or inserted, while at the s : time means are provided for holding the draft eye in close contact with the coupling pin to prevent rattling of the various parts.

POLE-TIP .- J. W. DEAM, Geary, Okla. The invention relates to tips for wagon poles and the like, and more particularly such as have resiliently controlled means for securely holding a neck yoke in place on the pole. In operation, the latch cannot drop out through the slot of the casing, as the stop with its shoulders, which are transversely disposed with respect to the slot, is covered by the end of the pole.

PNEUMATIC TIRE.—P. I. VIEL. 37 Rue de Rivoli, Paris, France. This invention relates Rivoli, Paris, France. This invention relates to a tire characterized by the use of a lining dexed." It begins with a classification of dexed." formed of a metal cable of wire. This packing or lining is intended to entirely do away with ruptures resulting from excessive pressure or excessive weight, or overheating and punctures. This lining diminishes in no way the flexibility of the tire.

BOLSTER.-J. HEIMLICHER, Defiance, Ohio. The aim in this instance is to provide a bolster for wagon bodies and the like, which is light in weight and inexpensive to manufacture, and which can be easily fashioned from standard structural iron or other metal pieces, such as I-beams and channels.

Designs.

DESIGN FOR A CUT-GLASS DISH.—T. B. open part. The pattern cuttings are of great variety and exquisite design.

handle has a symmetrical curve. The words Dum Tacket Clamet are inscribed across the bowl and also large initial letters W. O. W. arranged vertically.

Note.—Copies of any of these patents will pe 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.

THE COMMERCIAL PRODUCTS OF INDIA. By Sir George Watt. New York: E. P. Dutton & Co., 1908. 8vo.; 1,189 pp. Price. \$5.

This work is an abridgment of "A Dictionary of the Economic Products of India," which was published in 1893-4, and which has been out of made from photographs of bungalows which print for some time. The government of India have actually been built. therefore decided that a correct and abridged edition should be brought out. The instructions provided that the work should be limited to a single volume, the arrangement of which should confined to products which are at present of prospective industrial and commercial importance. The book is a monumental work, and represents a vast amount of labor. It will prove valuable to those who are in any way identified with Indian industries.

THE PHOTOGRAPHIC MANUAL. Edited by H. Snowdon Ward. London: Dawbarn & Ward, Ltd. New York: Tennant & Ward. 12mo.; 287 pp. Price, paper, 50 cents; cloth, \$1, postage

This is the fifth edition of an excellent English manual which incorporates the figures, facts, and formulæ of photography, and is a guide to their practical use, and is intended for every photographer.

Campers and Anglers. Price. 50 cents.

This little volume contains a description of all popular fresh-water and salt-water fish. It assaying of agricultural, mineral, and other subdescribes tackle and bait for the expert angler; it gives complete information on how, when, and where to fish, and a summary of the fishing resorts of the United States and Canada. The book is admirably arranged, and is very well printed. Its form is so convenient that it can be carried in the pocket. Among the features which appeal to us particularly are the views and plans of bungalows, the fishing detailed records of many interesting expericharts, and the directions for preparing food suitable for a fishing camp. The book should be in the possession of every fisherman.

THE DIRECTORY OF DIRECTORS IN THE CITY OF NEW YORK. New York: The Audit Company, 1909. 12mo.; 860 pp. Price, \$5.

The tenth edition of this useful work has just come from the press, and maintains the reputation of its predecessors for complete ness and reliability. 'The Directory this year contains over 32,000 directors, each director's name being followed first by the name of the firm or company with which he is directly associated, and then by all the companies in which he is a director. Select lists of corporations in banking, insurance, transportation manufacturing, and other lines of business alphabetically arranged, accompanied in each case by the names of the company's officers and directors, are to be found in the appendix, as well as a list of the principal exchanges in New York, with their officers and mana gers. This is a book which no business house dealing with a large number of companies or their stocks and desiring to know by whom their clients' interests are controlled, can afford to be without.

THE IMPLEMENT BLUE BOOK. St. Louis: Midland Publishing Company, 1909 8vo.; 460 pp.

This is a very useful book of reference for all users of or dealers in vehicles of all kinds, agricultural machinery and implements. remarkable feature is the simplicity with which one can find any name or subject heading one wants, the book being described as Adding machine, C. W. Gooch....... 931,410 manufacturers in the alphabetical implements they make, following with vehicles in the same manner. Then comes a list of manufacturers in alphabetical order, with lists of the specialties they make, and then a list of branch jobbing and transfer houses in geographical order, with the names of manufacturers whose lines they handle.

Engine Lathe Work. By Fred H. Colvin. New York: Hill Publishing New Company, 1909. 16mo.; pp. 180. Price, \$1.

The writer is Assistant Editor of the American Machinist, and is the author of many well-known books on mechanical subjects. The present volume gives practical suggestions CLARK, Honesdale, Pa. This highly ornamental which will give the young machinist or apdish is of a circular form and its height is prentice the foundation principles of engine which will give the young machinist or apabout one-half the diameter of the top and lathe work. The illustrations number 127, and are well executed. The author states that while the suggestions have been written especi-DESIGN FOR A TOBACCO-PIPE.—J. M. ally for those with a limited experience, it is TATUM, Athens. Texas. The bowl in this ornamental design represents the body of a tree with suggestions may be new to some of the older

this parachute rigid guys or braces operate in several roots sawed off close at the base. The men who have not had a chance to see what other shops were doing.

> RADFORD'S ARTISTIC BUNGALOWS. Unique Collection of 208 Designs. Chicago and New York: The Radford Architectural Company, 1908. 4to.; **p**p. 221. Price, \$1.

> In the last three years the number of bungaows which have been built in the United States has increased by leaps and bounds, and whole farms are being split up into lots for the erection of bungalows consisting of from two to five or more rooms. The work before us consists of a collection of wash drawings and floor plans. Plans and specifications for any of them are furnished by the publishers at moderate rates. The illustrations are hardly as attractive as they would be if they were

> THIRD REPORT OF THE WELLCOME RE-SEARCH LABORATORIES AT THE GOR-DON MEMORIAL COLLEGE, KHARTOUM. Andrew Balfour, M.D., B.Sc., F.R. C.P. Edin., D.P.H. Camb., Director. Published for Department of Education, Sudan Government, Khartoum, by Balliere, Tindall & Cox, 8 Henrietta Street, Covent Garden, London.
> Depot for U. S. A.: Toga Publishing
> Company, 45 Lafayette Street, New York city, 1908. 4to.; pp. 476.

The admirable work conducted in the Wellcome Research Laboratories is undoubtedly familiar to our readers. The laboratories were established to promote technical education in general; to further the study of tropical disorders, especially the infective diseases of both man and beast peculiar to the Sudan : to render assistance to the officers of health and to the clinics of the civil and military hospitals; to aid experimental investigations in poisoning cases by the detection and experimental determination of toxic agents, particularly the obscure potent substances employed by the natives of the Sudan; to carry out such chemical and Wainwright Randall. New York:
The Field and Stream Publishing
Company, 1909. 18mo.; 242 pp. may be found desirable; to promote the study of disorders and pests which attack food and textile produce and other economic plant life in Sudan; and to undertake the testing and stances of practical interest in the industrial development of the Sudan. The two volumes of reports previously issued by the laboratories cover the period from the foundation of these laboratories in 1903 to 1906. The third report completes the record up to 1908. The work of the laboratories has been so far extended that the latest report contains some 480 pages or ments, and researches principally connected with tropical medicine. The volume is profusely illustrated, and includes many valuable colored plates. Simultaneously with the Third Report, and as a Supplement to it, is published a Review of the Progress made in Tropical Medicine during recent years, compiled by Dr. Balfor and Dr. R. G. Archibald.

> DICTIONARY OF CHEMICAL AND METALLURGI-CAL MACHINERY, APPLIANCES, AND MA-TERIAL MANUFACTURED OR SOLD BY ADVERTISERS IN ELECTRO-CHEMICAL AND METALLURGICAL INDUSTRY. First Edition. New York: Electro-Chemical and Metallurgical Industry, 1909. 12mo.; pp. 182. Price 50 ADVERTISERS IN ELECTRO-CHEMICAL 12mo.; pp. 182.

Morphologie de l'Insecte. Par Charles Janet. Limoges, France: Imprimerie-Librairie Ducourtieux et Gout, 1909.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending August 17, 1909,

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

3	Adding machine, U. W. Goodb	931,410
	Adding machine, C. W. Gooch	931,619
•	Advertising device, M. H. Singer	931,509
Ē	Advertising machine, F. W. Remer	931,218
.	Aerodart, C. R. Bannibr	931,026
:	Air brake, Tugner & Farmer	931,237
5	Air brake system, E. M. Swift	931,234
	Air motor or locomotive, Pittman & Harri-	,
١.	son	931.643
3	Air ship, R. Schmiechen	931,225
٠	Amusement device, F. W. Nall	931,139
١	Annunciator board, J. Zickel	931,548
ι	Armatures for alternating current motors.	002,020
.	winding of, B. C. Shipman	931,150
	Atomizer, Venner & Brown	931,240
	Automobile lock, Crim & Loy931,684,	931 685
_	Automobile rear axle, F. C. Miller	931,451
	Automobile wheel, J. A. Fleming	931,403
;	Awning, M. L. Bond	931,259
	Axle bearing device, car, J. W. Stephenson	931,658
٠.	Axle box lubricating device, car, H. C.	331,000
	Gamage	931.053
,	Bag bundling device, G. J. Nuessen	
•		931,408
,	Baker's goods, milk, postal packages, news-	
.	papers, and the like, arrangement for	001 005
1	receiving, W. Eichelkraut	931,285
3	Baking powder, W. A. Beatty Baking utensil, potato, J. F. Fairbanks	931,027
.	Baking utensil, potato, J. F. Fairbanks	931,587
	Basin, toilet, W. Rieck	931,489
•	Batteries, preparing alkaline electrolytes for	
ıl	storage, D. P. Perry	931,082
•	Battery elements, preparing storage, D. P.	
t	Perry	931,081
.	Bearing for upright shafts, step, W. H.	
	Larrabee	931,069
,	Beater, M. A. Valy	931,100
ı	Bed bottom, W. Shannon	931,149
.	Bed or douche pan, Williams & Scott	931,539
	Bedstead lock or joint, M. D. L. Martin	931.447

Legal Notices



INVENTORS are invited to communicate with Munn & Co., 361 Broadway, New York, or 625 F Street, Washington, D. C., in regard to securing valid patent protection for their in-ventious. Trade-Marks and Copyrights registered. Design Patents and Foreign Patents secured.

A Free Opinion as to the probable patenta-bility of an invention will be readily given to any inventor furnishing us with a model or sketch and a brief description of the device in question. All communications are strictly confidential. Our Hand-Book on Patents will be sent free on

Ours is the Oldest agency for securing patents; it was established over sixty years ago.

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

Beer drawing apparatus, Handy & Phillips Bell ringer, E. Wilson Bell striker, T. L. Wilson Bilge drainer, C. W. Moore Biscuits, machine for making shredded wheat, W. E. Williams Bit. See Boring bit. Blast and pressure meter, E. H. Schulz	
Bell ringer, E. Wilson	931.297
Bell Striker, T. L. Wilson	931,108
Bilge drainer, C. W. Moore	931,1 72 931,633
Biscuits, machine for making shredded	931,243
Bit. See Boring bit.	351,240
Blast and pressure meter, E. H. Scbulz Blasting device, J. Phillips Blowpipe, E. S. Kiriball. Boat, W. N. Bell. Boat and tent, convertible, J. Vag:hi	931,348 931,341
Blowpipe, E. S. Kimball	931,623
Boat and tent, convertible, J. Vag:hi	931,529
Boiler tube cleaner, J. Zilliox	931,245 931 401
Bolt and nut lock, Egenas & Chapman	931,187
Book holder, E. S. Antisdale	931,111 931.679
Boring bit, expansible, L. W. Garner	931,593
Bottle cap, A. M. Miller	931,450
Bottle filling and capping head, G. Kirke-	931.624
Boat and tent, convertible, J. Vag:hi. Boiler tube cleaner, J. Zilliox. Boil weevil exterminator, J. W. Evans. Bolt and nut lock, Egenas & Chapman. Book holder, E. S. Antisdale. Book, loose back, C. Chivers. Boring bit, expansible, L. W. Garner. Bottle, L. V. Phillips Bottle cap, A. M. Miller. Bottle filling and capping head, G. Kirkegaard Bottle filling and capping machine, T. G. Redington Bottle filling machine, T. Reberts. Bottle stopper, G. Kirkegaard. Bottle stopper, G. Kirkegaard.	021 640
Bottle filling machine, T. Reberts	931,344
Bottle stopper, G. Kirkegaard	931,625 931,373
Box, A. Sabor	631,655
Box strap reel, A. Griesbeck	931,294
Bottle stopper, G. Kirkegaard. Box, A. Sabor. Box, A. Sabor. Box strap reel, A. Griesbeck. Braid, cord making, and similar machines, carrier for, A. Petersen. Braiding machines, etc., carrier for, A. Petersen. Brake shoe adjuster, O. S. McCurdy. Bread raiser, J. M. McIntosb. Brick molding machine, C. Simpson. Brine cooling apparatus, G. F. Dickson. Brine cooling apparatus, G. F. Dickson. Brom, S. F. Frazier. Brush, F. M. Hanaway. Brush, rotary tooth, C. L. Phillips. Brush stud support, B. A. Behrend. Burlair store molding machine, A. L. Post Burglar alarm, G. J. Deffner. Burglar screen, E. A. Wayland. Cabinet for the sacristy, R. A. McEachen. Cable hanger clamp, S. B. & G. B. Dusin- berre Cager and sumn guard, G. Holmes.	931,083
Petersen	931,084
Brake shoe adjuster, O. S. McCurdy	931,212 931,075
Brick molding machine, C. Simpson	931,154
Brine cooling apparatus, G. F. Dickson	931,687. 931,290
Brush, F. M. Hanaway	931,602
Brush stud support, B. A. Behrend	931,3 76
Building block molding machine, A. L.	931.644
Burglar alarm, G. J. Deffner	931,395
Cabinet for the sacristy, R. A. McEachen	931,360 931,462
Cable hanger clamp, S. B. & G. B. Dusin-	021 200
Cager and sump guard, G. Holmes	931,399 931,203
Can capping machine, G. W. E. Brooks	931,189 931,262
berre Cager and sump guard, G. Holmes Calorimeter, C. J. Emerson Can capping machine, G. W. E. Brooks. Can filling machine, C. S. Bucklik Cans and their heads, machine for clenching-	931,561
sheet metal, Adriance & Calleson	931,022
Cans to operating mechanisms, device for	091 434
Candy, sugared nut, McDonald & Hopson	931,137
Cap, miner's, I. M. McPberson	931,463
minating, W. E. Miller	931,454
Capping machine, C. A. Youngman Capping machine head, G. Kirkegaard	931,244 931,626
Car coupling, G. E. Tomlinson	931,097
Car draw bar and extension sbank, M. A.	001,000
Car fender, G. W. Mahan	931,193 931,32 6
Car framework, E. C. Anderson	931,555
	021 681
Carbureter, M. D. Colbath	931,681 931,386
Car side bearing, ranway, J. F. Courson Carbureter, M. D. Colbath Carton, G. Mortson	931,681 931,386 931,074 931,637
Carbureter, M. D. Colbath	931,681 931,386 931,074 931,637 931,349
Carbureter, M. D. Colbath	931,681 931,386 931,074 931,637 931,349
Carbureter, M. D. Colbath	931,681 931,386 931,074 931,637 931,349 931,628 931,628 931,628
Carbureter, M. D. Colbath	931,681 931,386 931,074 931,637 931,349 931,490 931,628 931,634
Carbureter, M. D. Colbath	931,681 931,386 931,074 931,637 931,349 931,628 931,634
Carbureter, M. D. Colbath. Carton, G. Mortson Carton, egg, R. M. Odell. Cast register attachment, O. K. Sletto. Casts register attachment, O. K. Sletto. Casts tiamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller. Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam.	931,681 931,386 931,074 931,637 931,349 931,628 931,628 931,634 931,350 931,707 931,280
Carbureter, M. D. Colbath Carton, G. Mortson Carton, egg, R. M. Odell. Caske lamp for hearses or funeral cars, adjustable. Roe & Antes. Celery bleaching sleeve, C. W. Mark Cellulose article, colored, O. Muller Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell	931,681 931,386 931,074 931,637 931,349 931,490 931,628 931,634 931,350 931,707 931,280 931,158
Carbureter, M. D. Colbath. Carton, G. Mortson Carton, G. Mortson Carton, egg, R. M. Odell. Casher lamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller. Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G.	931,681 931,386 931,074 931,637 931,349 931,490 931,628 931,634 931,350 931,707 931,280 931,158
Carbureter, M. D. Colbath. Carton, G. Mortson Carton, G. Mortson Carton, G. Mortson Carton, G. M. Odell. Cash register attachment, O. K. Sletto. Casket lamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller. Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G. Eirich Check receptacle, C. Boulard.	931,681 931,386 931,074 931,637 931,349 931,628 931,628 931,634 931,350 931,707 931,280 931,158 931,585 931,585
Cans and their heads, machine for clenching- sheet metal, Adriance & Calleson. Cans to operating mecbanisms, device for feeding, Krummel & Taliaferro. Candy, sugared nut, McDonald & Hopson. Cap, device for applying protectors to ful- minating, W. E. Mfiler Capping machine, C. A. Youngman Capping machine, C. A. Youngman Capping machine, C. A. Youngman Carping machine, C. A. Tomlinson Car coupling, G. E. Tomlinson Car coupling, E. F. Pendexter Car draw bar and extension sbank, M. A. Garrett Car fender, G. W. Mahan. Car framework, E. C. Anderson. Car side bearing, railway, J. F. Courson. Carbureter, M. D. Colbath. Carton, G. Mortson Carton, egg, R. M. Odell Cash register attachment, O. K. Sletto Casket lamp for hearses or funeral cars, ad- justable, Roe & Antes Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller Cement and making same, package of sticky, A. Thoma. Centrifugal screen, W. R. Cunningbam Centridgal screen, W. R. Cunningbam Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G. Elirich Check receptacle, C. Boulard Chenile strip manufacturing mechanism, W. P. Zimmermann	931,681 931,386 931,074 931,637 931,490 931,628 931,628 931,634 931,350 931,260 931,260
Carbureter, M. D. Colbath. Carton, G. Mortson Carton, G. Mortson Carton, egg, R. M. Odell. Casher lamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller. Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G. Eirich Check receptacle, C. Boulard. Chenile strip manufacturing mechanism, W. P. Zimmermann Chulck drill C. W. Manzel	931,681 931,386 931,376 931,697 931,490 931,628 931,628 931,528 931,280 931,280 931,280 931,280 931,280
Carbureter, M. D. Colbath. Carbureter, M. D. Colbath. Carton, G. Mortson Carton, egg, R. M. Odell. Casher lamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Celery bleaching sleeve, C. W. Mark. Celety bleaching sleeve, C. W. Mark. Cempt and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G. Eirich Check receptacle, C. Boulard. Chenile strip manufacturing mechanism, W. P. Zimmermann Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White.	931,681 931,386 931,376 931,697 931,490 931,628 931,628 931,520 931,280 931,585 931,585 931,280 931,365 931,158
Carbureter, M. D. Colbath. Carbureter, M. D. Colbath. Carton, G. Mortson Carton, egg, R. M. Odell. Casher lamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller. Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G. Eirich Check receptacle, C. Boulard. Chenile strip manufacturing mechanism, W. P. Zimmermann Chilian mill, W. B. Easton Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer	931,681 931,386 931,376 931,697 931,349 931,628 931,628 931,628 931,280 931,585 931,158 931,186 931,186 931,187 931,186 931,183 931,187 931,183
Carbureter, M. D. Colbath. Carbureter, M. D. Colbath. Carton, G. Mortson Carton, egg, R. M. Odell. Cash register attachment, O. K. Sletto. Casket lamp for hearses or funeral cars, adjustable, Roe & Antes. Celery bleaching sleeve, C. W. Mark. Cellulose article, colored, O. Muller. Cement and making same, package of sticky, A. Thoma. Centrifugal apparatus, H. E. Warren. Centrifugal screen, W. R. Cunningbam. Characters on sheet material, machine for impressing, C. B. Stilwell Chasing mill working in looped paths, G. Eirich Check receptacle, C. Boulard. Chenile strip manufacturing mechanism, W. P. Zimmermann Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey.	931,681 931,386 931,386 931,697 931,349 931,628 931,628 931,628 931,520 931,158 931,585 931,186 931,260 931,186 931,187 931,189 931,187 931,187 931,189 931,189 931,383
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarete detachable and collapsible tip. C.	931,365 931,180 931,327 931,167 931,583 931,629 931,314
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar ette detachable and collapsible tip, C. A. Drucklieb Circle divides N. Parris	931,360 931,18d 931,327 931,167 931,583 931,629 931,314
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar ette detachable and collapsible tip, C. A. Drucklieb Circle divides N. Parris	931,360 931,18d 931,327 931,167 931,583 931,629 931,314
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Chum, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker; Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Be.	931,363 931,186 931,327 931,167 931,583 931,629 931,314 931,582 931,080 931,264 931,023
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Chum, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker; Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Be.	931,363 931,186 931,327 931,167 931,583 931,629 931,314 931,582 931,080 931,264 931,023
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Chum, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker; Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Be.	931,363 931,186 931,327 931,167 931,583 931,629 931,314 931,582 931,080 931,264 931,023
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Chum, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker; Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Be.	931,363 931,186 931,327 931,167 931,583 931,629 931,314 931,582 931,080 931,264 931,023
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Chum, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker; Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Be.	931,363 931,186 931,327 931,167 931,583 931,629 931,314 931,582 931,080 931,264 931,023
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, car cable, H. S. Robinson. Clutch mechanism for printing, stamping, and die presses and the like, friction,	931,186 931,186 931,127 931,167 931,583 931,583 931,582 931,314 931,582 931,264 931,023 931,278 931,579 931,590 13,009 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, car cable, H. S. Robinson. Clutch mechanism for printing, stamping, and die presses and the like, friction,	931,186 931,186 931,127 931,167 931,583 931,583 931,582 931,314 931,582 931,264 931,023 931,278 931,579 931,590 13,009 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer. Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coal seuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dinning process for W. G.	931,189 931,189 931,187 931,167 931,163 931,629 931,629 931,284 931,284 931,284 931,278 931,500 13,009 931,651 931,300 931,250
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer. Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coal seuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dinning process for W. G.	931,189 931,189 931,187 931,167 931,163 931,629 931,629 931,284 931,284 931,284 931,278 931,500 13,009 931,651 931,300 931,250
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer. Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coal seuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dinning process for W. G.	931,189 931,189 931,187 931,167 931,163 931,629 931,629 931,284 931,284 931,284 931,278 931,500 13,009 931,651 931,300 931,250
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer. Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coal seuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dinning process for W. G.	931,189 931,189 931,187 931,167 931,163 931,629 931,629 931,284 931,284 931,284 931,278 931,500 13,009 931,651 931,300 931,250
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer. Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coal seuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dinning process for W. G.	931,189 931,189 931,187 931,167 931,163 931,629 931,629 931,284 931,284 931,284 931,278 931,500 13,009 931,651 931,300 931,250
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, car cable, H. S. Robinson. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh. Coal scuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Hasty. Coke loader, Wright & Monroe Collection box. E. E. Adams. Colliery and other inclines, safety appliance for, J. Morton Combination rack, Haas & Giles.	931,189 931,189 931,187 931,167 931,583 931,683 931,314 931,582 931,080 931,023 931,024 931,023 931,024 931,025 931,080 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, car cable, H. S. Robinson. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh. Coal scuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Hasty. Coke loader, Wright & Monroe Collection box. E. E. Adams. Colliery and other inclines, safety appliance for, J. Morton Combination rack, Haas & Giles.	931,189 931,189 931,187 931,167 931,583 931,683 931,314 931,582 931,080 931,023 931,024 931,023 931,024 931,025 931,080 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070 931,070
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar fr. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock, electric self-winding, Steiger & Besancon Clock, J. Schneider Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, M. H. Fischer, reissue. Clutch, acable, H. S. Robinson. Clutch, acable, H. S. Robinson. Clutch, acable, H. S. Robinson. Collutch, acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch, acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colletton mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Kasty Coin controlled mechanism, B. M. Davis. Collection box. E. E. Adams. Collection box. E. E. Adams. Colliery and other inclines, safety appliance for J. Morton Commutator, dynamo electric machine, J. E. Webster	931,186 931,386 931,327 931,167 931,583 931,632 931,314 931,084 931,084 931,083 931,083 931,083 931,089 931,089 931,590 931,089 931,593 931,197 931,197 931,197 931,197 931,089 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar fr. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock, electric self-winding, Steiger & Besancon Clock, J. Schneider Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, M. H. Fischer, reissue. Clutch, acable, H. S. Robinson. Clutch, acable, H. S. Robinson. Clutch, acable, H. S. Robinson. Collutch, acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch, acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colletton mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Kasty Coin controlled mechanism, B. M. Davis. Collection box. E. E. Adams. Collection box. E. E. Adams. Colliery and other inclines, safety appliance for J. Morton Commutator, dynamo electric machine, J. E. Webster	931,186 931,386 931,327 931,167 931,583 931,632 931,314 931,084 931,084 931,083 931,083 931,083 931,089 931,089 931,590 931,089 931,593 931,197 931,197 931,197 931,197 931,089 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar fr. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp. Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock, electric self-winding, Steiger & Besancon Clock, J. Schneider Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, M. H. Fischer, reissue. Clutch, acable, H. S. Robinson. Clutch, acable, H. S. Robinson. Clutch, acable, H. S. Robinson. Collutch, acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch, acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colutch acable, H. S. Robinson. Colletton mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Kasty Coin controlled mechanism, B. M. Davis. Collection box. E. E. Adams. Collection box. E. E. Adams. Colliery and other inclines, safety appliance for J. Morton Commutator, dynamo electric machine, J. E. Webster	931,186 931,386 931,327 931,167 931,583 931,632 931,314 931,084 931,084 931,083 931,083 931,083 931,089 931,089 931,590 931,089 931,593 931,197 931,197 931,197 931,197 931,089 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar fr. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, car cable, H. S. Robinson. Clutch, and the presses and the like, friction, M. Rockstroh Coal scuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Kasty Colin controlled mechanism, B. M. Davis. Collection box E. E. Adams. Colliery and other inclines, safety appliance for J. Morton Commutator, dynamo electric machine, J. E. Webster	931,186 931,386 931,327 931,167 931,583 931,632 931,314 931,084 931,084 931,083 931,083 931,083 931,089 931,089 931,590 931,089 931,593 931,197 931,197 931,197 931,197 931,089 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar the detachable and collapsible tip, C. A. Drucklieb Circlet divider, N. Perris. Circlet breaker. Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon. Clock register, nautical, T. Cunningham. Clutch, J. Schneider. Clutch, Gar cable, H. S. Robinson. Clutch mechanism for printing, stamping, and die presses and the like, friction, M. Rockstroh. Cal scuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Hasty. Coin controlled mechanism, B. M. Davis. Coke loader, Wright & Monroe. Collection box. E. E. Adams. Commutator, dynamo electric machine, J. E. Webster Compasses, attachment for, A. E. Washburn Compound, H. M. Sinclair. Concrete construction reinforcing bar, P. T.	331,380 931,181 931,327 931,167 931,583 931,314 931,622 931,284 931,023 931,278 931,278 931,278 931,089 931,309 931,5651 931,5651 931,324 931,324 931,574 931,574 931,574 931,574 931,574 931,574 931,574 931,579 931,579 931,089
Chilian mill, W. B. Easton. Chuck, drill, C. W. Manzel. Chuck release, lathe, W. L. White. Churn, M. V. Dudley. Cigar, F. Meyer Cigar machine, F. E. Kelsey. Cigar fr. Meyer Cigar machine, F. E. Kelsey. Cigarette detachable and collapsible tip, C. A. Drucklieb Circle divider, N. Perris. Circuit breaker, Browne & Howell. Clasp. See Veil clasp. Clasp, Albertoni & Tropeano. Clock, electric self-winding, Steiger & Besancon Clock, electric self-winding, Steiger & Besancon Clock register, nautical, T. Cunningham. Clutch, J. Schneider Clutch, M. H. Fischer, reissue. Clutch, car cable, H. S. Robinson. Clutch, and the presses and the like, friction, M. Rockstroh Coal scuttle, D. O. Hedges. Coat fastening means, W. S. Barker. Coating articles, dipping process for, W. G. Scott Coating composition, receptacle, W. R. Long Cock, safety gas, O. R. Kasty Colin controlled mechanism, B. M. Davis. Collection box E. E. Adams. Colliery and other inclines, safety appliance for J. Morton Commutator, dynamo electric machine, J. E. Webster	331,380 931,181 931,327 931,167 931,583 931,314 931,622 931,284 931,023 931,278 931,278 931,278 931,089 931,309 931,5651 931,5651 931,324 931,324 931,574 931,574 931,574 931,574 931,574 931,574 931,574 931,579 931,579 931,089