#### RECENTLY PATENTED INVENTIONS. Hardware.

SCREW-DRIVER. T. W. FISHER, Helena, Mont. Frequent annoyance and inconvenience a structure or piece of work becomes marred, not infrequently necessitating a new dressing or planing. The present invention has for its principal object to provide a screw-driver having means ("denominated by the inventor a holder or guide") whereby the anneyance may be readily overcome and also whereby the operation of insertion and withdrawal of screws

### Household Utilities.

SAFETY GAS-VALVE. P. L. SALEMI, New York, N. Y. The invention is peculiarly applicable for domestic use on ordinary gas-jets where there is more or less liability of the gas-jets being tampered with accidentally by unauthorized persons or children. The improvement allows the jet to be opened at will, but not opened so readily as to become dangerous. In other words, the inventor seeks to render it impossible for the jet to be opened except by a person who understands it and who desi es to open it.

SCREEN FOR WINDOWS OR DOORS. -E. CHRISTEN, Decatur, Ind. The inventor preferably employs a suitable frame for supporting the screen before or within the frame of an ordinary window or door, said screen being of special construction and operating to pre vent the rays of the sun from entering a compartment in which it may be located. The screen, however, offers no obstruction to the entrance of light and air therethrough nor lothe viewing of outside objects or surroundings

### Machines and Mechanical Devices.

BRAKE AND AUTOMATIC STOP DEVICE. -J. C. SMITH, Louisville, Ky. In this patent the invention has reference to a combined brake and automatic stop, which is useful in many machines and especially in hoisting-machines, particularly when applied to elevators. The objects are to provide means for auto matically stopping a machine, elevator, or the like at predetermined limiting-points and at to provide means for the purposes of a conthe same time provide means for stopping the same at intermediate points as desired.

TENSION DEVICE FOR WARP-BUAMS. G. Keller, New York, N. Y. In this its rance the invention relates to looms; and Mr. Keller's object is the provision of a new and improved tension device for warp-beams arranged to give a uniform tension to the warp under varying weather conditions to insure the formation of faultless weaves.

WOODWORKING-LATHE.---J. M. KUEBLER, in the present invention and is driven at a them a slow step-by-step movement, the elements being so arranged that the turrets are attached that it may be projected from or re at, or practically at, rest during the time that: the tool engages the work, the movement of the turrets being independent of the rota- or withdrawn from the tube. tion of the work-holders or center-pins, which latter rotation goes on continuously.

COFFEE OR SPICE MILL.-J. W. KIREY, Butte, Mont. In carrying out this improvement the object is to provide a mill which shall be adapted for grinding or pulverizing be effective in operation with an economical coffee and spices, the same to be not only simple in construction, but adapted for more thoroughly grinding or pulverizing than is possible with any similar mill known to the inventor.

COIN-CONTROLLED LIQUID-DISPENSING APPARATUS .- A. F. Bradshaw, Bieber, Cal. The intention in view in this case is the provision of a simple nechanish wherein liquid may be drawn from a suitable container on the deposit of a suitable coin or slug, the volume of escaping fluid being regulated automatically by the operation of a suitable knob and the coin being discharged automatically into a suitable receptacle, so that the coin will not subsequently interfere with the proper service

LING and C. machine for automatically threading nuts; and duction of a machine in which the tapping operations are practically continuous, and thus very greatly increasing the speed of the ma

## of General Interest.

COPY-HOLDER.- J. L. RIVERS, Scattle, Wash. The design in this case is to meet the demands of type-writer operators for a device gineer's brake-valve and the train-pipe on which will hold a copy so steadily in place that the jar or vibration of the machine will gineer's brake-valve being parts common to an effect it to the least possible extent (when fastened to a solid desk will do away with all vibration) and which may be used in any other impurity that enters the strainer denumber of positions on a folding type writer cabinet, desk, •r table in a way to avoid re moval or readjustment of the holder when FASTENING DEVICE.—J. T. GRITTIN, covering the writer with the ordinary cover Watertown, Tenn. Mr. Griffin's invention rewith which they are provided or when open- fers more particularly to metallic ties; and the and packing paper.

Inquiry No. 5981.—For manufacturers of wall

rolling-top desk.

CASING-CLAMPING WRENCH. -- J. G. are experienced in the use of the screw-driver the present invention Mr. Winger has particu- to the tie as to effectively secure the rails and due to accidental unseating of the end from larly in view as an object the provision of a prevent them from spreading. the groove in the screw head, and it often clamp which will securely engage with the Note. Copies of any of these patents will happens that from this cause the surface of exterior surface of the casing-tube and may be, be furnished by Munn & Co. for ten cents each. used as a wrench to turn the same, the con-Please state the name of the patentee, title of struction of the device being such that the invention, and date of this paper. tube will not be bent or crushed under the influence of pressure exerted thereon.

Walla, Wash. The invention is an improvement in that class of traps in which a springactuated bow-shaped jaw is adapted to be set may be effected with ease and facility and and locked in a retracted position and when without liability to cutting or injuring the tripped by the animal snaps down upon his band. tion of the locking and tripping device and its connection with the spring-jaws; also to construction of the jaws and their attachment to fixed portions of the stationary frame, which: portions constitute their fulcra; also the means for connecting the ends of the wires loroning each of the jaws.

PIANO BACK .- G. H. JONES, Oregon, Ill. In this patent the object is to provide a back which is simple in construction, comparatively light, and arranged to obtain the greatest strength at the point where the greatest strain is exerted by the strings and the metal plate, to increase the volume of tone of the instrument by the elimination of the heavy posts now in use in frames, and to maintain the instrument in proper ture for a considerable length of time.

### Pertaining to Vehicles.

WHIFFLETREE-COUPLING .-- G. L. MIL-LER, Socialville, Ohio. In this instance the invention is especially useful in couplings for connecting the whilletree, doubletree, coupling-pole of a carriage or wagon with the cross-bar. It can be applied to the center of bolsters or axics to receive to coupling-pin or king holy art wh stop the fact in a wood or soft - engines roughes projecting lining. As a champing device it may be used to fasten separate parts together and will constitue a strong brace member for the structure.

#### Prime Movers and Their Accessories.

PDMP CONTROLLING MEANS. W. SMALL, Sourlake, Texas. Primarily the inventor seeks. Engine is built by the De La Vergne Machine Company struction which will effectively operate as governor for a pump in such manner that when pumping oil large quantitie usually wasted when a break in the oil line occurs by stor pressure on which the supply to the suction becomes too low is saved, whereby puggis equipped with his improvement require less attention, and the service of one or more station attendants dispersed with.

BOILER FLUE CUTTER. J. W. Fairsburg, Moberly, Mo. That class of devices which are Wausau, Wis. The cutter is of the rotary type employed for cutting the lines or tubes of tube lar boilers at a point within the flue size; are high speed. Both of the turrets are driven by improved by this invention, and particularly certain peculiar mechanism which imparts to in that class of such cutters in which the body of the tool is provided with a cutter so tracted within a radial slot in the tool as required for work or when it is being inserted; ery and tools. Quadega Manufacturing Company, Is

> TURBINE. T. EASTMORY and M. M. FREEN, Jacksonville, Fla. In this invention, which relates particularly to improvements in turbines, the object is to provide a reversible multiple compound expansion-rurbine that will use of motive agent, simple and durable in construction, and easily reversed. The inventors have also made another improvement relating to multiple compound expansion steam turbines, the object of which is to provide a machine of this character that will be effective in operation, simple and durable in construction, easily reversed, and arranged to utilize the motive agent to the fullest extent.

## Railways and Their Accessories.

stone, Va. Mr. Bowen's invention is in the nature of an improved automatic railroadswitch designed to be set in operation by the New York. Free on application NUT-TAPPING MACHINE. G. F. Zwillswitchman along the frack, as when freight fee.

tuquiry No. 5968.—For importers of tea and cofswitchman along the frack, as when freight fee. trains are being operated over the same 11 this patent the invention has reference to a comprehends certain movel features in the switch mechanism and in the combination. the prime object of the inventors is the pro- with the same, of a shifting lever with stand. light, and locking devices

> STRAINER ATTACHMENT FOR AUTO MATIC AH-BRAKES, - S. J. BALLANCE, A. Untach, and G. Untach, Lincoln, Neb. The object of the invention is to provide a practical device which may be readily connected with a crossover pipe between the train pipe and the ttiple valve on cars and also between the enengines, the train-pipe, triple valve, and enair pressure-brake system, and when so concembs. nected serve to arrest any kind of gritty or

ing or closing a folding writer cabinet or | object of his improvement is the provision of an improved tie of this character of strong and simple construction and improved rail-fastening WINGER, Grand Valley, Pa. In carrying out devices so formed and so arranged relatively

Note. Copies of any of these patents will

# Animal-trap. G. J. Millim, Walla Business and Personal Wants.

READ THIS COLUMN CAREFULLY, -You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring them formation, in every case it is necessary to give the number of the inquiry. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 5951.—For wax used in manufacture of shoe polish.

AUTOS .- Duryea Power Co., Reading, Pa.

Inquiry No. 5952.—For manufacturers of pearl and bone button making machines.

"U.S." Metal Pelish. Indianapelis. Samples free. Inquiry No. 5953.—For manufacturers of coin slot portraiting machines.

Perferated Metals, Harrington & King Perforating Co., Chicago.

Inquiry No. 5951.—For manufacturers of lathes and machines for making wooden bottles.

Company, Fall River, Mass.

Inquiry No. 5955.-Por manufacturers of pump indicators.

Want to buy receptacles for toilet-room disinfectant.

Disinfection, 794 Broad Street, Newark, N. J. Inquiry No. 5956.—For address of umbrella bandle manufacturers.

 $W_{ANTED}. + Addresses \ \mathrm{of} \ importers \ and \ consumers \ \ of$ 

bamboo. D. F. Mitenell, Jacksonville, Fla.

Inquiry No. 5957.-For machinery to produce kinted table padding.

Sawmill machinery and outfits manufactured by the Lane Mig. Co., Box 13, Montpelier, Vt.

Inquiry No. 5958. For makers of laundry machinery.

Americal inventions negotiated in Europe. Wenzel & Hamburger, Equitable Building, Berlin, Germany.

I sauiry No. 5959. - For address of drug company dealing in powdered extract of guit weed. The celebrated " Hornsby-Akreyd" Patent Safety Oil

Foot of East 138th Street, New York.

Inquiry No. 5960.—For manufacturers of rope-making machinery. In buying or selling patents money may be saved and time gained by writing Chas. A. Scott, 719 Mutual

Late Building, Buffalo, New York. Inquiry No. 5961.- For firms or parties using small bottles for putting up samples of medicine and other articles.

We manufacture anything in metal. Patented arti-

cles, metal stamping, dies, screw mach. work, etc., Metal Novelty Works, 43 Canal Street, Chicage. Inquiry No. 5962.-For parties making fiint glass. Patented inventions of brass, bronze, composition or

aluminum construction placed on market. Write to American Brass Foundry Co., Hyde Park, Mass. Inquiry No. 5963.—For several second-hand, small electro magnets; also for dealers in amat, urs' electrical supplies.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinuth Canal Street, Chicago

Inquiry No. 5964.—For manufacturers of salve, etc.

SALE - Adjustable stepladder patented in Canada and United States. Used on stairways. Never placed on market. Joseph A. Jaeger-Bainer, Hail Ave. and So. Scott Ave., Bradford Park, N. Y. C.

Inquiry No. 5965.-For makers of light-weight

737,941. Can furnish some valves, cut-off, in working ! order. P. J. Lotthauser, Clarendon, Texas.

Inquiry No. 5966,-For manufacturers of the Calentatorde camp."

Would you be interested in doing successful business in Mexico? Please write for particulars. We will recommend you a man well known with all business situations in that country. Arturo Andres, Guadala

jara, Mexico: RAILROAD-SWITCH. T. A. BOWEN, Black-out-of mussel shells.

Send for newand complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Breadway

Inquiry No. 5969.-For manufacturers of stereo-

Inquiry No. 5970.-For loom for weaving wire

Inquiry No. 5971,-For parties making machines

Induity No. 5972.- For manufacturers of hard sheet rubber, glass ware, brass goods and carbon. Inquiry No. 5973.—For parties manufacturing nuclines for making eigerettes.

Inquiry No. 5974.-For manufacturers of sand blast machines. Inquiry No. 5975.—For parties putting up shingle mill to out express shingles.

Inquiry No. 5976 .-- For manufacturers of carbo-

Inquiry No. 5978.—For dealers in samples of rubber stamps.

Inquiry No. 5979.—For machinery for extracting and cleaning hemp.

Inquiry No. 5980.-For manufacturers of peat and peat goods.



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

References to former articles or answers should give date of paper and page or number of question.

Inquiries not answered in reasonable time should be repeated; corrospondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.

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

addresses of houses manufacturing or carrying the same.

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

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

Books referred to promptly supplied on receipt of price.

Minerals sent for examination should be distinctly marked or labiled

(9454) C. W. W. asks: 1. How does all artificial motion differ from the earth's motion? A. There is no difference, so far as we know, between the earth's motion and other motion. Motion is change of place. It may be that the question has some special sense which we do not detect. 2. Where, in traveling round the world, do you lose a day? A. If one crosses the 180th meridian going from and machines for making wooden bottles.

If it is a paper tube we can supply it. Textile Tube cast to west be will skip a day, that is if be crosses on Thesday, be will immediately change his reckoning to Wednesday, the hours remaining the same. On the other hand, it he crosses going from west to each he will set his recknaing back a day, that is, if he wesses on Tuesday be will immediately change his reckorning back to Monday. This is not because he loses a day or mains one. He has the same direction as effices. It is because on -allier from east to west the days are each more than eventy four hours long, and in going entirely around the world these min ates in excess of twenty-four hours amount as a total to another twenty-four hours or a day. Similarly in sailing toward the east, one meets the san earlier by the change he has made in his longitude, four minutes of time for each degree, so that the days are less than twenty-four hours long. In going entirely around the world these deficiencies in the length of the day amount to twenty-four hours or another day, and this the voyager gets by shifting his date backward one day on cross ing the 180th meridian. In olden times ships carried their reckoning without change till they had completed the voyage and then made the change on arriving in port. 3. Why will a vessel made of cement hold water and not keep water out? A. A vessel which will not keep water out will not keep water in. It is inconceivable that it should do so. However, a vessel may be porous so that water will leak into it, when it is see into a tank of water, and yet not have water ron out of it so as to wet the place where it stands when it contains water. This is explained by the fact that the water which oozes through the pores of the vessel is evaporated as fast as it appears on the outer surface and does not accumulate in sufficient quantities to drop off. Use is made of this peculiarity of porous earthen ware vessels to secure cool water in the tropics. A porous vessel is bang in a draft of air in the shade and the evaporation of the water from the external surface cools the water remaining in the vessel so as to be refreshing to drink. The manufacture of cement blocks as wed in auchitectural work and Two patents for sale. Supply tanks for water service, No. 185,602. Valve, a cut-off, for supply tanks, No. Illustrated in Scientific American, No. 9, Vol. 89, also Steplement, Nos. 118 and 645, 10 cents each. Any maker of brick machinery can make the block molding, machine. We refer you to the American Clay Working Machinery Company, Bacyrus, Ohio; you will also find another address in the copy of SCIENTIFIC AMERICAN mentioned above.

(9455) D. L. P. askst Are the velocities of light and attraction from the moon the same, and if not, why is it that the titles are drawn up when the moon is ap-parently over them? What is the actual position of the moon as regards the earth, when its observed position is at the zenith? A. The ) force of gravitation is held by scientists to act instantaneously through space. Light travels with a velocity of 186,300 miles per second in the spaces between the heavenly bodies. The tides produced by the moon are not directly between the moon and the center of the earth. that is, directly under the moon. It requires time to overcome the inertia of the water. and the crest of the tide wave is about one hour behind the moon in the open sea, while near the shore, in bays and rivers it may be much farther than this behind the moon. The position of the moon in the sky differs as seen from any place from its position as seen from the center of the earth. You can draw a diagram for the latitude of your place and see the relative position as seen from your place and from the center of the earth.

(9456) S. F. C. asks: Will you kindly decide the following questions: A claims that it has never been scientifically demonstrated that it is possible to throw a globular sphere or baseball and make it describe a curve on the same plane, i. e., what is commonly

the opposite, also that said curve will not exbaseball can be thrown 60 feet and made to melt. "break" or deflect at an acute angle when PRINCIPLES AND PRACTICE OF ARTIFICIAL about 58 feet, also that it is possible to throw a ball 60 feet and cause it to curve 3 and 4 feet from the median line. A. There can be ne doubt about the curving of pitched baseballs. It is seen every day. Pitchers are chosen for their ability to pitch "curves, We do not, however, know the limits of the distance to which a ball has been or may be curved, and should look with doubt upon the statement that a ball cannot be curved more than 4 friches in 60 feet. The matter has been analyzed by scientists with the conclusion that the curving is the result of a diminished pressure on one side of the rethe ball rushes through the air. This is tion of the ball causes the rarefaction of the air on one side, that toward which the ball is turning, and a pressure is produced toward that side which pushes the ball away from its straight course, as seen by one watching the would satisfy A, but the fact of curving is structive tables, and a chapter on liquid air the obvious visible fact.

(9457) E. E. W. asks how the herse power of an electric motor is redeened. Is it reckened on what the motor will draw or what it will lift? How many men would it take to run a machine by foot power that can be turn by a 1 horse power motor? A The herse power of an electric motor is reck oned from the amperes and volts which it takes. Multiply together the amperes and votes as determined by the instruments and divide the product by 746, to obtain the horsepower. Eight or ten men may be taken as about equal to 1 horse power in continuous work, although no definite number can obviously be assigned.

(9458) F. E. W. asks: Has it ever, to your knowledge, been proved by scientific demonstrations, that a ball thrown by the human arm can be curved in the air? Will you kindly inform me in regard to the matter? A. Curved balls are pitched every day on all the baseball grounds in the country. There can be no question about the matter. It has also been made the subject of mathematical investigation. The conclusion is: "The curving of a pitched base ball or a court tennis ball is due to a reduction of air pressure on one side of the rotating ball." You will find a valuable article on the subject of the curved ball in our Supplement No. 402, price 10 Other aitledes are published in the SUPPLEMBET No. 410, 423, 463.

# NEW BOOKS, ETC.

How to ILLUSTRATE FOR NEWSPAPERS, MAGAZINIS, BOOKS, ETC. By Charles Hope Provost. New York: Brown Publishing Company, 1904. 12mo.; pp. 186. Price, 50 cents.

 $M_{\mathrm{P}}.$  Provest's masticm as a well-known illus trator of the day will give this manual a chim upon popular regard. If critalism may be ventured, it must be to the effect that the writer has tiled to cover too much ground, and consequently has been obliged to dispose of such subjects as "perspective," "nictorial composition," and "ornamental design" within the limits of one or two pages. This fact, Inwever, does not detract from the value of the writer's semants and instructions on other subjects; as in the chapters on "artistic auatomy." for instance, which are remarkably well illustrated by plates seewing the articolation of the bony structure, the disposition of the muscles of the body, and the relative proportions of the features of the face and of the members and parts of the body. The list of publishers who buy illustrative work should be of use to beginners ambitious to make money by brush and pen; while an appendix, devoted to the reproductive processes used in book, periodical, and advertising work, contains much that the beginner ought to know.

CHI-MICAL ANALYSIS FOR GLASSMAKERS. Containing Methods of Analysis for Clays and Other Silicates which will be found useful for the Pottery Industry. By Edward C. Uhlig, B.S., Chemist for Whitall Taum Company, Member of the American Society of Chemical Industry. Pitts-burg: Kaufmann & Gauding, 1903. 8vo.; pp. 136. Price, \$5.

Glassmakers are, as a rule, accustomed to fellew certain recipes to produce certain re salts, without frauding themselves to learn whether the chemical ingredients they use are of the required strength and purity. Uhlig urges a systematic test of taw materials, and a more careful sentiny of operations. and a more careful scuttiny of operations, Carbineter, R. H. Baues such as batch-mixing and gas making, promising that the frequent failures now carelessly attributed to "bad luck" will thus be reduced to a minimum. To this end he endeavors to Carbineter, R. C. Baues Carbineter, R. C. Baues Carbineter, R. C. Baues Carbineter, R. H. Baues Ca

termed an in-curve or an out-curve. A also give, in as simple and non-technical language claims that if any curve does take place it is as possible, such necessary lastruction in due to the resistance of the air to the ball chemical analysis, in its relation to the manutraveling in one direction but revolving in facture of glass, as will enable the workman to discover beforehand any imperfections in ceed 4 inches in 60 feet. B claims that a the ingredients, and so avoid failure in the

> ICE-MAKING AND REFRIGERATION. Comprising Principles and General Consideration; Practice as Shown by Particular Systems and Apparatus; Insulation of Cold Storage and Ice Houses, Refrigerators, etc.; Information and Tables. By Louis
> M. Schmidt, Ph.B. Philadelphia:
> Philadelphia Book Company, 1904.
> 8vo.; pp. 291; 153 engravings. Price, \$2.50.

Ice-making and refrigeration are subjects of great and increasing importance in the The air is rent by the ball as through the air. This is equivalent to an air current past the ball have in food staffs and perishable products. Starting the same velocity as the ball. The rota ing with a blief resume of the history of ice making, from the ancient practice of watercooling in India to the present time, Mr. Schmidt proceeds to impart a general knowl edge of the principles involved. He then brings out the application of these principles hall. Any batter can tell you that the balls in practice, by descriptions of representative curve, and for that reason are hard to hit apparatus as made by the leading manufac-We do not know what scientific demonstration furers. In conclusion he presents some incapable of optical demonstration, and it is the success of this, the second edition of the the business of science to find the reason for work, is presaged from the fact that the first edition is entirely exhausted and the demand still unabased.

### INDEX OF INVENTIONS

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#### AND EACH BEARING THAT DATE

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Fox fastener, C. G. Black Broad, Lacchilde for tanking Swedish. Solidation & Given Bridte bit, C. C. King Bridthy block and the mean D. Mealified Bridthy block and Tisch Bridthy block made, H. Laccay, Cai,	768,874 768,997 768,997 763,993 763,299
How Instence, C. G. Breek Brond, Lawbring for Link', g. Swedish, h. c., Sedichichi, & Olse; Bridle hit, t. c. & King Bridle side check attachnoni, D. Mealillan Bristle, W. Aucherman, Bridler, which is a lawbring to the Bridler, which is a lawbring to the Bridler, block, H. Tisch, Bridler, block, H. Kinger, h. c., Bridler, Johns, Bridling, angletic, J., P.	768,874 768,900 768,900 76,000 76,000 738,000 778,008
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low Instense, C. G. Brock Brond, Lacching for making Swedish in a Sodichelin & Giver Bridle hit, C. C. King Bridle side check attachment, D. Mewlither Brosh, W. Arnebergen, Bridler Slock, R. Tisch Bridling black thalen H. Laccwe, T. S. Bridling black thalen H. Laccwe, T. S. Warm, with Bridling check thanking quachine, L. P. Norm, with Brighter more maid booking device, S. C. Lacwber Burner, A. G. Kanfamer	768,874 768,893 768,993 768,993 768,130 768,130 768,733 768,733 768,733
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low Insteady, C. G. Brick  Roberhelm & Gesc.  Roberhelm & Gesc.  Bridle side check attachment, D. McMillan  Brish, W. Anaderman, D. McMillan  Brish, W. Anaderman,  Brishmy thesk, E. Tisch.  British and the standing marchine, E. C. Lawfor  Burner, A. G. Kanfman  Burner, A. G. Kanfman  Burner, A. G. Kanfman  Burner, A. McParler;  Batter for forming marchine, E. G. Satton- British, A. G. Sanfman  Burner, J. McParler;  Batter for forming marchine, E. G. Satton- British, A. G. Sanfman  Burner, J. McParler;  Caddinett, D. J. Sweet,  Caddinett, D. J. Sweet,  Caddinett, D. J. Sweet,  Calmeron support M. Chal  Can complying marchine, T. A. Diwer,  Cameron support M. Chal  Can complying marchine, T. A. Diwer,  Capport Brick, D. Heffmann  Car bricks, D. Heffmann  Car bricks, D. Heffmann  L. R. Brayer  Car deory, Cought, J. R. Hermion,  Car duals bending J. R. Hermion,  Car duals bending M. S. Bacak  Car duals bending M. S. Bacak  Car atthefic bending M. S. Bacak  Car, Allissin,  Car, Callissin,  Car, Call	798,874 703,011 703,011 703,011 703,011 703,011 703,011 703,010 703,011 703,011 703,014
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low Insteady, C. G. Brick  Roberhelm & Gesc.  Roberhelm & Gesc.  Bridle side check attachment, D. McMillan  Brish, W. Anaderman, D. McMillan  Brish, W. Anaderman,  Brishmy thesk, E. Tisch.  British and the standing marchine, E. C. Lawfor  Burner, A. G. Kanfman  Burner, A. G. Kanfman  Burner, A. G. Kanfman  Burner, A. McParler;  Batter for forming marchine, E. G. Satton- British, A. G. Sanfman  Burner, J. McParler;  Batter for forming marchine, E. G. Satton- British, A. G. Sanfman  Burner, J. McParler;  Caddinett, D. J. Sweet,  Caddinett, D. J. Sweet,  Caddinett, D. J. Sweet,  Calmeron support M. Chal  Can complying marchine, T. A. Diwer,  Cameron support M. Chal  Can complying marchine, T. A. Diwer,  Capport Brick, D. Heffmann  Car bricks, D. Heffmann  Car bricks, D. Heffmann  L. R. Brayer  Car deory, Cought, J. R. Hermion,  Car duals bending J. R. Hermion,  Car duals bending M. S. Bacak  Car duals bending M. S. Bacak  Car atthefic bending M. S. Bacak  Car, Allissin,  Car, Callissin,  Car, Call	798,874 703,011 703,011 703,020 703,020 703,020 703,020 703,020 703,030
low Insteady, C. G. Brick  Roberhelm, & Gesc.  Solicibelm, & Gesc.  Bridle ship, C. C. King.  Bridle ship, C. C. King.  Bridle ship clock attachment, D. McMillan  Brish, W. Aracheman,  Bridlery shock, T. Tisch.  Bridlery shock, T. Tisch.  Bridlery shock, T. Tisch.  Bridlery block mode, H. Isaway, Tail.  Bridlery block mode, H. Isaway, Tail.  Bridlery shock mode, H. Isaway, Tail.  Bridlery shock mode, H. Isaway, Tail.  Bridlery anoma and looking device, S. C.  Lawfor  Burner, A. G. Kanfanan  Borner, J. McParlett  Britter anoma and looking device, S. C.  Lawfor  Barner, J. McParlett  Britter, A. G. Kanfanan  Borner, J. McParlett  Britter, D. J. Sweed  Catherto, D. J. Sweed  Catherton, J. G. Bredtenspill.  Catherton device, mechanical, F. J. Andown  Camera support M. Coul.  Camera support M. Coul.  Can compilent modeller, F. A. 10ken  Camera support M. Coul.  Can compilent modeller, F. A. 10ken  Can compilent file of Fraging finit connection,  L. S. Brager  Can compilent device, modeller, C. A. Hoschutz  The sounding draw bar attachment, canfleway, J. A. Hissa.  Car dwaft sharker, M. S. Lacak  Car dwaft sharker, M. S. Lacak  Car attach sharker, M. S. Lacak  Car, attachy, J. W. Yan Dyke  Car, attachy, J. W. Jandyker, J. Cars, etc., device for tepil and remarker  Cars, etc., device for tepil and remarker  Cars, etc., device for tepil and remarker	798,874 761,011 761,020 761,020 778,120
low Insteady, C. G. Brock  Road Laching For Lacking Swedship.  Solicibella, & Giver  Bridle bid, C. C. King  Bridle side check attachment, D. McMillan  Brighty shock, T. Tisel.  Bridley shock, T. Tisel.  Bridley shock tradeling machine, L. P.  Normy ship.  Bridley plack tradeling machine, L. P.  Normy ship.  Bridley plack tradeling machine, L. P.  Normy ship.  Bridley graven and looking device, S. C.  Lawbor  Burner, A. G. Kanfman  Borner, A. G. Kanfman  Borner, A. G. Kanfman  Borner, A. G. Kanfman  Borner, J. McFerler;  Britler for forming machine, E. G. Sufton- Birton, J. G. Bredtenspili.  Cadingto, J. J. Sweed  Cadenda, D. J. Sweed  Cadenda, D. J. Sweed  Cadenda, D. J. Sweed  Cadenda, J. R. Chall  Can compling machine, T. A. Disce.  Cap but the G. G. F. Payar  Car dong the machine, T. A. Lipschutz  Lar compling draft ringing pind connection,  L. S. Brayer  Car dong freight, J. B. Bernden,  Car dong freight, J. B. Bernden,  Car draft winging, M. S. Lack  Car draft winging, M. S. Lack  Car draft winging, M. S. Lack  Car, allway, J. A. Hissa,  Car, allway, J. W. Van Dyke  Cars, allway, J. W. Papillans,  Cars, and May, J. W. Van Dyke  Cars, and device, the capital and cannot be full grave county  Lans, device from pind and pind grave for E. E.  Cars, each device, free trajed and promoter.	798,874 703,911 703,913 703,920 703,92

nical language	thish registry, J. P. Chent Conventing that, F. S., Catana mint and, J. E. Minnes Coment, asphalt navine, F. J. Watten Chain writer, G. Anthony Chain writer, G. Anthony Chain writer, G. W. Bulloud Chain, W. Suffa Chain, W. Suffa Chara, A. M. Smithly Chigar martine, Sunciety & Relier Cupar the enther and intertising divice, A. & A. Isla Character and chair making macrons, B. W. Tusker Chenti, arealogy E. M. Hadei Chroft interemptor, G. P. Methandi, Cland, See Flour champ. Clast Sand Interesport L. M. Change, Clast Sand Interesport, G. P. Methandi, Cland, See Flour champ.	768,587 768,826	Game set, I
to the manu-	Calmin dal pad, J. L. Minnes Coment, asphalt paying, P. J. Watter Chain wiench, G. Anthon	76%,861 769,123 769-043	Garbag, tre
perfections in	Carin wrend, G. W. Bullord Unite, W. Scatta Photo C. V. Busson	769,654 768,633	Gas purifying
rannie in the	Churn, A. M. Smithley Churn martling, Startely & Refler	768,956 768,777	Gate. See I
IF ARTIFICIAL FURIGERATION.	Cigarette sam chair marking massures, D.	708,996	Gearing, J. Glass gather baugh
and General as Shown by	W. Tucker Circuit procedure E. M. Hawleit Circuit Intercaptor, G. P. Methandi	768,831 768,941 768,616	Glassware, s
l Apparatus; age and Ice		768,930 768,768	strom . Glove, boxing Grain drill a
etc.; Useful By Louis	Closel structure, W. U. Gradus. Cathing case and hanger, D. A. Ryan.	768,001 769,024	Grain arm a Grain steami Grain phone,
Philadelphia: npany, 1904.	Colin containing packages, paper carried for	768,577	baum Grate fender Grandstone b
vings. Price,	d. M. defines C.Hurshlde Centr, W. F. 1. Weidenbaum, Collar, Lorse, J. X. Schultz	768,094 768,010 769,020	Guns, alkalin Wild
are subjects	Composition of matter, 9, Floorke, Composition of matter, G, H. Turnhall, Composition and M. T. A. McMartie,	768,980 768,870 768,904	Hair dressing Hair drying Hair drying Hair holding
rtance in the its application	Constitute block model, T. A. McMurtries, Constitute recomposition, front resisting and fire proof, H. L. Dunn. Controlling device for and marine players, A. P. Pattiner, Conveyer, J. B. Brown. Conveyer, J. B. Brown. Conveyer, C. Grisch. Conveyer, G. G. W. Santha. Conveyer, G. G. W. G. Grisch. Conveyer, G.	708,080	Hammer this matic, C. Harness, B.
, retrigeration tionized, trade	A. D. Paltiner Conveyer, J. B. Brown	768,613 768,841	Harness, B. Harvester, co Heater, J. H Heating furn
oducts. Start- history of ice	tork bounding machine, crown, E. H. Banco	768,649 768,647	Heating furn Hide or skin kins
tice of water- on time, Mr.	Collab compress, T. J. Griffis	768,877 768,667	Hide working Whitney Hinge, lock, Hoist, bartel
general knowl- ed. He then	Pearce Crane, defivery, G. W. Smith	768,685 768,632	Hoisting app Hoisting devi
liese principles representative	Ashgorae Cuff habites, W. B. Fullen	768,972 768,742	Hoise releasi Hoise seleasi
ding manufacterists some in-	Company furier, G. L. Sterr Coffsynter, R. R. Brown Citiester St. vol. 4, L. Broggerfree	769,028 768,580 769,055	Horseshoe ca Hose support Hulling mack
on liquid air.	Current west dying approximate alternating, C. M. Green Curring and shade harger, combined A.	768,937	Hydrocubon Igniter for e
that the first	A. Hattelback Cuspilor carrier, C. H. Ugin	769, <b>0</b> 75 768,897	ing, L. I Incubator, A. Insulating el
	Cutting condition A. M. Schaelagen, Dain, shall, Americann A. Cherry	768,629 768,629 768,717	Hon and ar's
NTIONS	Stewart	769,030 768,637	Jar cover, F. Journal box, Kettle, figure
	larik soon or cabinet pactalla, R. W. Stewart Stewart Doullat appliance, M. J. Schamberg Levilling divise, O. J. Travis Thomas, C. F. Stewart Lisens i by Egn. task, application for treating, G. F. Stewart Listmenting application for backers' implements, W. J. Fischer Jish 19th, W. A. Lee Jish and heave, J. H. Preston Display stand, sounds short relaxing, G. H. Whaph Distilling or tracher bydrovarion miss and	708,700 708,807	Kiln car, in Knob and III Knob fasteril
it of the	Disturceting apparatus for burners' imple- ments, P. I. Finches	708,848	Ladder, aeris Lamp, W. Tu Limp, electri Lamp, electri
ssued	Disclay device, J. H. Pyesini,, Disday stand, should shoot many, G. H.	708,803	Lamp, electri Lamp, electri Lamp, gas,
ling	Whople Distilling or country hydrocarbon mis and sphirs, L. Gatheman Distilling system and apparatus, L. Gath- man,	768,796	Lamp, gas, Lamp hanger Lamp hanger Lamp, meand
4	Distilling system and apparatus, L. Gath- march Dicking which G. W. Dissert	708,700 700 000	Stowart Lamp, oil, C
HAT DATE	Distring special and apparatus, L. Gattlianna Bletchig tracion, G. W. Bascha ; boar barge, W. Lorden Baar or serven, G. J. Rosanti Boar stop, R. R. Caushi boars stop, R. R. Smith boars, typics for apparating sediar or Larb, W. J. Symons	768,669 768,690	Lamp socket Lamp socket,
these patents.]	Boor step, R. R. Smith Doors, Two es for operating collector	768,825	Lamps, device ments for & McDoni
769,801, 708,824 768,929	Droft producer and spank spresses, A. U. Toliyer	768,782	Latch lifting Moore Lath forming
768,892 ( 769,661 ( 768,659 (	Drawer galah, P. C. Billings Drawing Instrument, E. S. Johnson Dry kile, L. Macre 769,102. Drying Kila, R. J. Marton	768,927 768,997 760,100	Lath forming lone
s, 6316 (II			Lath, metal, Lath, metal,
768,686 708,705	Dye ox fixing setting II. J. Co ke Dyeing composition G. M. Lawten Eccentric, W. A. Samlers	768,8 <b>0</b> 9	Lavatory, wa bined, J- Lawn sprinkle
789,083 788,020 708,006	Dysing confusivities, 6. M. Lawies Eccentric, W. A. Sanders, Electric accumulation, C. de Siel, off Electric accumulation, A. H. Imbert, Electric controlling a strong automatic, W. Sunchnever	768,630 768,995 768,610 :	Lens grinding Letter sheet a Lifter. See
	Electric representates on parties, revolving field		Lifting jack, Lineleum cut
	5 C. W. A. Someon	769,090	Linotype macl Liquid direct sea
168,958 168,880 (15) or 768,723	G. 1. Legacti Electric metric, T. 19, c.m. Electric mater realizable, F. C. Watkins, Electric starring box lever locking device,	768,982 768,711	Liquid fuels thermo-dy
taching,	Elect the switch, G. J. Schneider	769,111   769,116	K. Stern Liquids, mech ing er cen
758,829 (0by . 168,584 769,051	Excluse wave recording apparatus, 1., T. Robinson	768,968 <sup>1</sup> 768,959 !	Leading and ing levee Lecemetive fr
068,791   068,899   068,797	Electric apparents, Barks & Rollfs Electrical choice coll. G. S. Career Electrone for the apprilial purposes, W. B. Bassekl	700,007	Lecemetive en Wilkinsen Loom for we
. Peter- 708,080	disconnected and the last by the distance of Mr.	708,721 i 760,00 cd	Dennis & Leem shuttle
8,725 (o. 768,727 loga   G. 	Little deldi Elevator on Loist, C. A. Julii Elevator safety device, E. Mosonyi 1874 gate hanger, wagon, P. M. Sturgis, 1894 gay, wagon Pro King, Pursa & Priger English, Soc. All engine.	768,500.1 768,801 768,000	Lubricating a Lubricating d
700,002 60 708,848	Die Care, wagen bucking, Paus & Cager Englie. See Air englie.	THS. 7300	Match making
768,078			Measining in
K, K. Tosysaa	Eagle 8, etc. "geleen apprentis for ges fig. U. Fegor Englises, starting vaporized For expansive, W. W. Tack et al. Encoden, A. T. Martin Eventer, N. P. Peterson Eventering machine, A. McCarthy Eventering machine, A. McCarthy	768,793	Mechanical m Metering system Mine gate, J
Wright 708,807 708,018 800.6	W. W. Tack of al. Envelop, J. T. Martin Eventer, N. P. Peterson	768,641 768,670 768,693	Mires- constr shafts in, Mining automa
768,990 (h 768,662 (765,7) 4	Executing machin, A. McCarthy (Nings) front, J. E. Schrieger (Perdinance, P. M. Linder	769,105 768,627	Mop and mo
798.9.2 768.600 768.874	Es-glasses, L. F. Acti Eyelot machine, A. C. Campbell Faisch pressing and finishing machine, tex-	168,870	inauction,
1. 1. a % 1	E. B. A. Land and Market C. S. Whitehall	768,69 <b>0</b>	Mowing machi Mowing machi Mowing machi G. W. D
(eatition To the con-	Figuret, verified, W. L. Missigt Food water heater and purface, J. ff. Kings- ley	70% 00%	Muffler, head,
738,068 728,068	Food witer, regulator, Kullar & Yesing From pasts, altaching matrix for secreting wheet in T. W. Gladfull Force, wire, C. S. Brobs	769,692° 768,598 .	heig Musical instru Neckwer fast Newsnaners e
708,540 80 C. 768,753	The Property of the Control of the State of	1	Newspapers, e F. O. Bro Nurling tool
765,762 765,816	Fabrous pads of facting, halkout, G. Gold-	768,599	Nut lock, H. Nut lock, C. Nut or pipe w
Sutton: 768,794 769,653 768,968	Files, ralmaying block eluter for call index or document, C. Zindarei. Piling drawer, J. C. Coules. Filling machine, F. C. H. Steasharger,	768,716 768,785	oil and steam oil burner, M oil burner, cr
J. Xo- 708,044 768,987	Filling machine, F. C. H. Stensharzer, 768,962 to Filling machine Valve, F. C. fr. Stras-	708,1864	Oil waste pred Oscillaphone, Oven, baker's,
768.70T	burger Filling valve, F. C. H. Spresburger Fillit, high p.essure, W. S. Rawson Finishing roll, F. D. Stowe	768,961 768,965 .	Oven, baking, Oven, baking,
			Prokage closu Packages, bexe Sagenderpl Padleck 15.
neelion. 	Phenim, automutic, T. C. Johnson Phenim, automutic, T. C. Johnson	769,089 768 666	Painting mach Pan See Dus
768,854 768,799 768,611	Firearm, recoil operatid, T. C. Johnson' Fishing tool, C. M. Heeter' Flat fron, H. M. Horine	768,665 769,140 768,942	raper feeding stream Paper feeding
10. A. 768,722	Daniel  Friearm, automatic, T. C. Johnson.  Friearm, recoil operatid, T. C. Johnson.  Fishing tool, C. M. Heeter. Flat fron, H. M. Howne.  Flat iron heater. W. J. & Berron.  Fleshing uachine. F. J. Petkis.  Floor clamp, Hammond & Henderson	769,002 769,017 769,076	man Paper machine Paper makin
769,126 768,888	Flooring, wood, I. J. C. Hisbrotck Flind pressure regulator: W. & J. Bockel Flushing dyakir closet, J. M. Justen Fly paper, machine for reaking sticky, B.	768 859	Kitego
768,89 <b>6</b> r, 769,128	Plushing device closet, J. M. Justen Ply paper, machine for making sticky, B. E. Clark	768,752 1 768,734	Pavement, A. Pavements, li, Pen cleming of Pen, fountain,
Masona, 768,992 ( et. 15. – 1 	E. Clark  Fork and take, combined, C. Prangemeier, Pumigeting appearatus, F. O. Hawley  Former, B. Hamilton  Furnace Charger, W. R. Feeeland  Furnace Charging applicatus, Elist, W.  Komedia	7 <b>68,76</b> 9 7 <b>6</b> 9,079 768,851	Pencil holder, Photographic s
768 618 768 732	Filliace (Margel) W. If Freeland	768,596 768,858	Piana action
769,045 	Furnace churging applicatus, blast, W. Kennedy Furnaces, mud gun fer filling non notches of blast, P. McCarthy Fuse plug, H. R. Satgent Game indicator, J. J. Poli	769,10 <b>6</b>	Planter, seed, Plow planter
769,097	Game indicator, J. J. Poli	768,689	Plow, shovel,

587 326	Game set, R. Freeman	768,849 768,579
祖日 [2日 月日	Garment supported, A. W. Mensor, et al.,	769,104 768,767
134 133	Gas purifying apparatus, Everett & Red-	768,655
(51 )56	Gate. See End gate.	768,792
77 1946	Gearing, J. W. Miller	768,612 <b>768,6</b> 72
SU	baugh Glass working machine, I. W. Colburn	768,970 768,650 769,155
141 1116	Glassware, scalloging, A. Grundstrom Glassware scalloging device, A. Grund-	769, 155
;;;; ;;;	Strom Gleve, boxing, A. F. Bui'tt	769,078 768,733
111	Grain steaming apparatus, P. Provost Grain steaming apparatus, P. Provost	769,101 768,692
15	Grids feuder, E. C. Dickerson. Grindstone banger, M. Delgoff. Guns, alkaline lubricant for offing, J. G.	768,728 768,657
<b>51</b>	Grindstone banger, M. Delgoff	768,895
(13) (20) (10)	Hair dressing rat. A. Cohn	768,835 768,588 768,967
70	Hair dlying device, L. Swain	768,967 768,658
K-)	Hammer throttle valve mec'rinism, pneumain, C. H. Haesclell	768,898
13 41	Harness, B. A. Dunkle Harvester, complete, J. & R. B. Morrow	769,066 768,881 768,720
76 49	Heater, J. R. Barker Heating furnace, J. W. Arneld Hude Ar sky, upberging reaching E. J. Bar	768,720 768,576
17 77		769,016
ti.	Whitney	768,712 769,035
85 32	Hoist, barrel, H. J. Krumpelmann Hoisting apparatus, A. N. Hadley	768,8 <b>0</b> 8 7 <b>6</b> 8,74 <b>6</b>
72 42	Holsting device, H. J. Schmick	768,822 768,578 768,880
28 80	Horseshoe calk, F. B. Guidner	769,071 768,766
55 	Hade working and unhairing machine, R. F. Whitney Hinge, lock, H. B. Watter Host, loricel, H. J. Krumpelmann. Hoisting apparatus, A. N. Hadley. Hoisting device, H. J. Schmick Hoise refeasing device, E. A. Bannes. Hoise seleasing device, E. A. Bannes. Horseshoe calk, F. B. Guidher. Horseshoe calk, F. B. Guidher. Hoses supporter, Menser & Granthart. Hulling machine, H. Kurth Hydroembon burner, A. C. Rush Igniter for explosive motors, electric spark-	<b>769,095</b>
3 <b>7</b> 75	Igniter for explosive motors, electric spark- mg, L. J. Phelps	768,687
97 25	Hydrocubon burner, A. C. Rush. Igniter for explosive motors, electric spark- mg, L. J. Phelps Incubator, A. G. Smith Insulating electric conductor, I. Krisee, T68,754 to	768,756
29 17	compound of, L. Spiegel	768,886
30 97	Jar cover, F. P. Prida Journal box, J. E. Cooper	768,950 769,130
Ġ	Kiln car, thing, C. M. Strickland.  Kiln car, thinel, A. A. Guy.  Knob and bulk door, H. G. Veight.	769,119 768,797 768,833
#7	Knob fastching, G. W. Roberts Ladder, aerial, F. S. Scagtave	768,952 768,700
48 (3) (3)	Lamp, W. Tures Limp, electric, E. L. Elliott	768,642 768,847 768,745
,,, ,,,	Lamp, electric atc, M. F. Goodfrich Lamp, gas, A. H. Humphrey	768,745 768,994 769,072
96	Jar cover, F. P. Paridy Journal box, J. E. Cooker Kettle, flying, C. M. Strickland. Kiln car, mant, A. A. Griy Knob and helk door, H. G. Voight. Knob firstchild, G. W. Roberts Ladder, aerial, F. S. Scagenve. Lamp, W. Tures Limp, electric are, M. F. Goodrich. Lamp, gas, A. H. Humphrey Jamp hanger, H. Glessel Lamp, hanger, street, A. W. Hutchins Lamp, meandescent hydrocarbon, Grant & Strwart	768,803
10; 111	Sirwart Lamp, oil, C H. Hattan	768,988 768,747
60 93	Lamp, petroleum meandescent, J. Sweboda. Lamp socket subbase, R. B. Benjamin	768,828 768,787
18	Lamps, device for protecting carbon fila- ments for "mandescent electric. Miller	100,100
(9)	Strwart Lamp, oil, C. H. Hattan Lamp, petroleum incandescent, J. Swoboda. Lamp socket, withtenproof, R. B. Benjamin. Lamps, device for protecting carbon filaments for luminatescent electric, Miller & McDonnell Latth lifting devices, manufacturing, E. A. Moore	768,614
82 27 1	Moore Lath forming machine, metal, S. David-	768,615 768,931
(7 (3)	Lath forming machine, metal, J. F. Malone	768,946
13 71 59	Lath, metal, S. Davidson Lath, metal, J. F. Malone	768,932 7 <b>68,</b> 94 <b>7</b>
9 6	bined, J. B. Legg	768,878 768,618
95 95	Lath forming machine, metal, S. David- Lath forming machine, metal, J. F. Ma- Lone Lath, metal, S. Davidson Lath, metal, J. F. Malone Lavalory, water closet, and cabniet, com- bined, J. B. Legg Luvn sprinkler, H. F. Neumeyer Lens grinding machine, L. Wilhelm Letter skeet and envelop, A. A. Henderson Latter, See Cullinary lifter.	768,713 $769,136$
18	Lifter. See Cannary Inter.  Lifting jack, H. J. Schmick  Lindeum cutting machine. R. J. Heming-	768,821
•	Lens grinding machine, I. Wilhielm.  Letter skeet and envelop, A. A. Hendersen.  Lifter. See Culimaty lifter.  Liften, See Culimaty lifter.  Lifting jack, H. J. Schmick.  Linoleum cutting machine, E. J. Hemington  Linotype machine, J. R. Rogers.  Liquid directing device, Brown & Trucksen  Liquid directing device, Brown & Trucksen  Liquid duels to metive power apparatus, thermo-dynamic piecess of applying, P.  K. Stern  Liquids, mechanism or apparatus for taising or conveying visious, W. E. Pedley  Loading and unloading apparatus for building levees, etc., C. H. Parker  Locometive frame pedestal tie, F. J. Cole.  Locometive frame pedestal tie, F. J. Cole.  Locometive or vehicle, turbine driven, J.  Wilkinson  Loom for weaving looped of pile fabrics,	769,081 768,910
;ŧ	Liquid fuels to matter naver appropriates	<b>768,87</b> 5
1	thermo-dynamic piecess of applying, P. K. Stern	<b>76</b> 9, <b>02</b> 9
1 8	Liquids, mechanism or apparatus for taising or conveying visious, W. E. Pedley	769,614
301	ing levees, etc., C. H. Parker Lecometive frame pedestal tie, F. J. Cole.	768,682 768,788
41 75	Wilkinson	768,714
: Li	Delinis & Fawthiop	769,062 768.9 <b>00</b>
41 41 11.	Lubricating apparatus, E. W. Baird	768,651 768,840
di <sup>1</sup>	Lubricator, W. Alexander	768,82 <b>0</b> 769, <b>0</b> 4 <b>0</b>
7	768,582,	768,583 768,671
6	Measuring instrument, electrical, H. C. Sneek	768,957
3	Metering system, T. Duncan Mine gate, J. P. Cowing	768,934 768,653
1	Mires construction of frezen walls for shafts in, K. Schmidt.	768,774
ວ່. 5	Mop and mop wringer, readined, C. E. Shiw.	768.77ß
9 ·	Motor generator, G. S. Dunn	768,738
١	Mowing machine, R. H. Hutchinson	768,804 768,133
9	Mowing machine sickle grinding attrobment, G. W. Durham	768,790
ارز ادو	Muffler, head, face, and neck, B. Rauten heig	768,626 769 1 1 8
- 8 <sub>1</sub>	Neckwest fastening, A. W. Pithouse	768,949
9	F. O. Brostrem Nurling teel helder, A. H. Riegner	768,930 768,771
9	Nut lock, C. W. S. Tumer.	769, <b>0</b> 33 768,832
إو	oil and steam separator, J. E. Schlieper Oil burner, Margeson & Schmitt	768, <b>6</b> 28 769, <b>00</b> 4
ວ :4:	Oil waste press, A. T. Peirce	768,798 769,015 7 <b>6</b> 9.005
1	Oven, baker's, G S Baker	768,719 768,675
1	Matters making machine, C. W. Meyes.  Measuring instrument, electrical, H. C. Sneek  Michalead miscement, W. S. Husen.  Metering system, T. Duncan  Mine gate, J. P. Cowing  Mines construction of frezen walls for sharts in, K. Schmidt,  Mining automatic bumper, conditions, C. E.  Shaw  Motor generitor, G. S. Dunn  Moving machine, R. H. Hutchinsen.  Mowing machine, R. E. Grant.  Mowing machine sickle grinding attrobust,  G. W. Durham  Musical instrument, F. J. Stenger.  Newspapers, etc., machine for feeding off,  F. O. Brostrem  Nurling tool holder, A. H. Riegner.  Nut lock, H. R. Remberger  Nut lock, C. W. S. Trutter.  Nut or pipe wirench, W. Van Horn  Oil burber, Mutigeson & Schmitt.  Oil burber, Kangeson & Schmitt.  Oil burber, Mutigeson & Schmitt.  Oil burber, Kangeson & Sch	169;077 769,132
6	Sagendorph & Steinotig.  Padlock, E. T. Frann Painting machine, C. E. Bell.	769,025 768,741
9 <b>6</b>	Painting machine, C. E. Bell	768,873
0 1 2 ₁	Paper feeding machine, Dexter & Hall- stream  Paper feeding mechanism, Morton & Sher-	768,979
2 <sup>†</sup>	man	70%,07% 70%,864
2	Paper making machines, cleansing, I.	769,091
2	Pavements, A. E. Schutte	(68,698 (68,1110) (68,00)
4 9 :	Penholder finger hold, B. B. Goldsmith.	768,779 768,985
9    - 	Photographic scream in King, B. S. Kripp Plane striam, J. L. Wilson	755,758 765,758
,	Pipe wrench, chain, Victoria & Bufford 7 Planter, seed, W. G. Dunlelson 7	69,042 68,656
i i	Planter, seed, E. M. Heylman	69,137 68,893 68,092
ĺ	Plow, shovel. W. G. Tower	68,640