Lary further trouble? A. The contents should be blown swered until botanists tire of classifying plants each out just as you blow out a hen's egg. The shells will according to his own idea. The other names you give keep indefinitely. 2. What is the easiest and best way are synonyms of the above. We have not been able to of preserving birds after they have been killed? How i find any other information in regard to the use of the do persons get birds that are wanted for preservation? | plant in diabetes than that given in the Scientific Does not shooting them injure the plumage a good deal? AMERICAN of October, 1888. A. You will need the "Taxidermist's Manual," which gives full directions for preserving and setting up of natural history specimens. Price \$2.50 mailed. It is a complete work for amateurs. 3. How do you account for worms so often seen in rain barrels after a storm? A. The worms were probably in the barrels before the storm and were only stirred up by the storm. 4. Will hair from a horse's tail change to a snake or to any other life form if placed in water? A. Horse hairs will not turn into snakes or other form of life.

(3135) M. S. S. asks: 1. Is there any way of taking the coating out of a copper tea kettle caused by boiling hard water? It is about 1/4 of an inch in thickness and as hard as brick. A. If the deposit is calcium carbonate, it will dissolve with effervescence if muriatic acid, not too strong, is poured upon Quite a quantity may be required. If the deposit is calcium sulphate, you may very slowly dissolve it out by rain water, cold or hot. 2. How is rubber made into very thin sheets and forms, such as toy balloons, etc. ? A. By slicing blocks of masticated rubber the sheets are made. They are then cut and stuck together with certain precautions, partly by natural cohesion, partly by the use of cement. For some notes as to the process we refer you to "Rubber Hand Stamps and the Manipulation of India Rubber," \$1 by mail.

(3136) J. S. J. asks: Will you please explain in your query column why soda water used in cutting steel leaves so much smoother, brighter surface than oil? A. Because the soda water being more fluid tban oil flows to the cutting edge of the tool and lubricates the cut. The soda as an alkali gives the water a greater affinity for the oily surface of both the tool and the steel, and causes it to flow between the point of contact of tool and metal. Its cooling power is also greater than that of oil, which can be seen by the heat carried off in vapor at the point of cutting.

(3137) C. A. G. asks how to produce a low temperature sufficient to keep meat and other perwith the hunting of the animals and study of fresh
with the hunting of the animals and study of fresh The cheapest and most practical way in this latitude to produce a low temperature, except on the large scale,

(3138) T. P. A. asks: 1. Will the motor in "Experimental Science" work as well with a drum armature? A. Yes. 2. What size wire should I use on armature and field for 110 volt circuit, and what would be its back E. M. F. so wound? A. You should wind your armature and field magnet so that their combined resistance will be about 30 ohms. If this is a shunt machine, three-fourths of the resistance should be in the field magnet and one-fourth in the armature. If it is a series machine, the resistance of the armature and field magnet may be about equal. 3. I have made a simple and methods of killing them are given. A bibliography motor, as described in "Experimental Science," illus- of books of reference and a full index close the work, trating the Gramme ring, but can only get it to run about 100 revolutions. Will more wire and stronger field increase its speed? A. Probably you can increase the speed of your experimental Gramme ring by placing more wire upon the armature. We think you do not need a stronger field. 4. In a catalogue the Edison-Lalande battery is advertised (one style) as giving 15 ampere hours with resistance of 0.025 ohm. How can I calculate the E. M. F. ? A. Divide the ampere hours by the resistance, and the quotient will be the E. M. F., which in this case is 0.6 of a volt.

(3139) N. C. H. A.—Concrete wall such as you propose would make a good foundation for your barn. Use 1 part best cement and 3 parts clean sharp sand. You can figure the quantities from the above For prices write to dealers.

(3140) W. B. H. asks: What difference in pressure exists in top and bottom of a five foot boiler at a pressure of 80 pounds? A. The difference in gauge pressure at top or bottom is due to the height of water in the boiler. If there is 4 feet of water in the boiler, the bottom will have nearly 2 pounds more pressure than

(3141) B. G. asks how to make birch beer out of birch bark or root. A. Take birch bark 1/2 pound, hop 1/2 pound, allspice 1/4 pound. Boil n a few gallons of water for a few minutes. Mix with enough water to make 10 gallons, when below 100° Fah. add one pint of yeast. Allow it to ferment.

(3142) J. D. T. asks for the most simple and convenient way of fastening platinum tips to the copper wire of a cautery electrode such as is used in surgical operations, in which a white heat is necessary. completed, and in this attractively printed and well A. Silver solder would undoubtedly make the best connection, but galvanic soldering with copper or even a screw clamp will answer.

(3143) E. C. K. writes: I have a five ing very inferior results. I have decided to renew the bath and would like to know if you could inform me how to recover the nickel from the solution? A. Prepare a saturated solution of sulphate of ammonium. Add with constant stirring to the bath and let it stand. After a while a granular deposit of the double nickel ammonium sulphate will appear. If the supernatant liquid is colorless, the precipitation is complete. Otherwise add more of the ammonium sulphate. When complete precipitation has been obtained, pour off the liquid, drain the precipitate and redissolve for the new bath.

(3144) F. W. asks for a recipe for making soda foam that is used in milk shake. A. Take four pounds gum arabic in lumps of best quality, pour over it four pints of boiling water, and stir from time to ist. time until dissolved. Strain through flannel if necessary. One or two pints of simple sirup may be added to help it to keep. One or two ounces to the gallon of sirup will answer for soda with sirup. For milk shake add in same proportions to the milk. Add one-half grain of calomel as a preservative.

(3145) J. H. A.—Your question as to the plant to which you refer cannot be definitely an- treat them rather superficially. Yet the subjects seem

(3146) B. P. J. B. asks: Please give me receipt for making a white ink with which to mark on dark goods, such as umbrellas, black clothing, etc. A. Mix pure freshly precipitated barium sulphate or "flake white "with water containing enough gum water to prevent the immediate settling of the substance. Starch or magnesium carbonate may be used in a similar way. They must be reduced to impalpable powders.

(3147) W. R. B. asks how to remove ink from newspapers a couple of weeks printed, something that will not destroy print on back of the paper. A. Use javelle water or a solution of oxalic acid and tartaric acid in water. No bleaching agent affects printer's ink, but all ordinary writing inks yield to some of them.

(3148) G. E. asks: How many volts and amperes will it require to heat to cherry redness a piece of steel 12 inches long by 11/4 inches wide and onetwentieth inch thick? Of course the quality will make a difference. Please give me as close an approximate as you can. A. Taking the temperature at 1,500° Fah. a current of 565 amperes should suffice, maintained by a difference of potential of 0.07 volt; 30,000 amperes suffice to weld a pair of 1 inch copper round bars.

NEW BOOKS AND PUBLICATIONS.

AXIDERMY AND ZOOLOGICAL COLLEC-TIONS. A complete handbook for the amateur taxicermist, collector, osteologist, museum builder, sportsman, and traveler. By William T. Hornaday. With chapters on collecting and preserving insects. By W. J. Holland. New York: Charles Scribner's Sons. 1891. Pp. xix, 362. Price \$2.50.

In this large and handsomely printed and illustrated ook it seems as if taxidermy and its allied branches of the natural historian's work have at last been adequately specimens, and extends down to the final preservation of skins and mounting the same, and treatment of the stuffed and mounted objects. The entire field is covered, egg collecting and preservation, the making of casts. osteology, or the preparation and mounting of skeletons, and insect collecting and mounting are side branches that receive full treatment. Taxidermy proper fills the second part of the work, which includes some 158 pages. The subject is here given in full detail, with many practical hints from the author's own experience. Beginning with mammals, the subject of birds and crustaceans comes next, with final chapters on grouping, andeven painting museum specimens. Insectpests, the collector's great enemy, are described, of books of reference and a full index close the work.

THE ENGINEERING MAGAZINE. Published by the Engineering Magazine Company. World Building, New York. Monthly, 25 cents per copy, \$3 per year.

There is no better proof of the general interest that is being taken at the present time by the general reader, by business men, and farmers in scientific and engineering works than the fact that new journals and periodicals are constantly being established. A knowledge of engineering, of electricity, and mechanics is now considered one of the necessary concomitants of ordinary education. The Engineering Magazine is the latest addition to this class of literature. is the same size as Scribner's or the Century, and is handsomely printed and is fully illustrated. The general character of the magazine may be judged from the subjects treated of, which include war ships of the U.S. Navy, a survey in a diving suit, the development of the South, healthful air in factory buildings, iron and steel industries in America, etc. There is also a department of architecture, electricity, mining, and mechanics.

COLOR MEASUREMENT AND MIXTURE, By Captain W. De W. Abney. Lon-don: Society for Promoting Christian Knowledge. New York: E. & J. B. Young. 1891. Pp. 207. Price \$1.

The well known author of this volume states that about ten years ago he began to work upon three measurements of the spectrum-the heating effect, the luminosity, and the chemical effect. The task thus set is illustrated volume of the "Romance of Science" series we have presented in popular form the results of Captain Abney's work. The analysis of color and light by rotating disks is described, and the ingenuity shown gallon nickel plating solution which has lately been givwriter, in this field of physical science.

THE MAKING OF FLOWERS. By the Rev. Prof. George Henslows. (Publishers as above.) Pp. 168. Price \$1.

The "Romance of Science" series receives a notable addition in the present work. The anatomy of flowers and the meaning and function of their different parts. the specialization of flowers, and the many branches of this part of botany, are admirably treated by the well known author. His contention is that flowers have been moulded into their present forms by the agency of insect visitors, that their formation is an act of evolution, and he appears himself as a pronounced evolution-

COAL AND WHAT WE GET FROM IT.

By Raphael Meldola. (Publishers as above.) Pp. 210. Price \$1.

The presentation of an account of the great industries based on coal, including the manufacture of gas, coke, and coal tar products, is the object of this work. The author in very limited compass presents a resume of a whether Syzigium jambolanum is the correct name of vast collection of topics, and is obliged of course to

very nicely treated and to be well put. A chronological summary of some of the chapters is an exceedingly convenient and valuable feature.

The monthly Illustrated American. The well known weekly journal the Rlustrated American has won for itself universal recognition as a high art publication in every sense of the word. From the literary standpoint it can be judged no less favorably than from the purely artistic one. It has been well received by the public, so well indeed that its publishers have decided to issue a low-priced monthly edition, of which we have just received the first number. At the rate of \$1 per annum, orten cents a single number, enough of the same grade of illustrations and matter of as high standard as that of the original periodical are given to at least convey a flavor of the real Illustrated American. The new enterprise intending to popularize the tendencies of the larger weekly deserves every encouragement. Many who take it will undoubtedly be led to patronize the larger periodical, whose present success should be increased by this venture. Meanwhile the weekly Rlustrated American continues its course, one which can be commended as exemplifying the highest standards of illustrated journalism

TO INVENTORS.

An experience of forty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persens contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office Scientific American, 381 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

June 30, 1891.

AND EACH REARING THAT DATE.

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

1		
١	Abrading machine, A. W. Street. Acid, manufacturing lactic, C. N. Waite. Adding machine, Blackshaw & Rogers. Album, photograph, Brewerton & Szameit. Animal trap, J. H. Wilson. Annunciator, electrical, Harte & Gerold. Awing and window blind, combined, J. C. Gittings. Axle arm, vehicle, P. McMenamin. Bagasse furnace, F. Cook. Balling press, B. A. Ferguson. Balling machines, stoppin g mechanism for twine,	455,131
!	Acid, manufacturing lactic, C. N. Waite	455,078
	Album, photograph, Brewerton & Szameit	454,844
i	Animal trap, J. H. Wilson	455,243 455,016
1	Awning and window blind, combined, J. C. Git-	454.005
1	Axlearm, vehicle, P. McMenamin	455,239
1	Bagasse furnace, F. Cook.	455,173
1	Ralling machines, stopping mechanism for twine.	455,282
١	J. Aspinall	454,991
1	Band cutter and feeder, G. H. Lasar Barrel machine, W. Merrill.	455,219 454,915
١	Barrel maaking machinery, F. L. Gordon	454,954
١	Basins, apparatus for supplying water to wash. J.	455,007
١	J. Royle	455,117
٠	Belt drive, N. W. Holt	455,283
.	Belt fastener, W. H. Ratcliff	455,056
١	Bicycle saddle, R. S. True	455,027
١	Rillet conveyer, H. S. Smith et al	455,062
ł	Smith et al.	455,063
	Treat et al.	455,074
:	Bin, J. Wilson	455,082
	Bit. See Bridle bit.	400,042
	Baling press, B. A. Ferguson. Balling machines, stoppin g mechanism for twine, J. Aspinall. Band cutter and feeder, G. H. Lasar. Barrel machine, W. Merrill. Barrel machine, W. Merrill. Barrel mask in J. F. Rooney. Basins, apparatus for supplying water to wash, J. J. Royle. Bed, folding, B. F. Fortiner. Belt drive, N. W. Holt. Belt fastener, W. H. Ratcliff. Beverage, H. Hubener. Bicycle saddle, R. S. True. Billet conveyer, H. S. Smith et al. Billet forming, process of and machine for, H. S. Billets, combined shears and conveyer for, F. H. Treat et al. Bill, J. Wilson. Bird cage, A. B. Hendrys. Bit. See Bridde bit. Block and tackle, J. L. Ebert. Board. See Wash board.	454,962
	Boiler separator, steam, C. D. Mosher	454,984
3	Boilers, feeding, N. Clute	454,984 454,900 454,852
i	Book case, C. H. Emerson	455,280
	Board. See Wash board. Boiler sparator, steam, C. D. Mosher	455,121
	Boots or shoes, machine for stretching uppers of,	455.004
	A. F. Preston Boots or shoes, ventilator for, P. A. Petterson Bottling machines, safety shutter for, E. S. & H.	455,024 454,880
١	Rottling machines, safety shutter for. E. S. & H.	454,980
.	Box. See Money box. Post office box.	,
	Hughes. Box. See Money box. Post office box. Box making machine, Strong & Williams. Box making machines, cutting die for, J. F. Gilli-	455,242
	land	455,015
.	Brake. See Wagon brake. Brake shoe P. S. Criswell	455,033
.	Bridle bit, J. R. McDonald.	455,049
	Brick machine. A. Brooker.	455,160
į	Buckle, shoe, H. A. Closser et al	454,853
	Burglar alarms, circuit closer for, D. A. Palmer	455,0 8 5
	Burner. See Gas burner.	455 169
	Car brake attachment, L. H. Raub	455,114
•	Car, convertible, M. B. Ryan	454,921 454,978
	Box making machines, cutting die for, J. F. Gilliland Brake. See Wagon brake. Brake shoe P. S. Criswell. Bridle bit, J. R. McDonald. Bridkin, W. P. Grath. Brick lin, W. P. Grath. Brick machine, A. Brooker. Buckle, shoe, H. A. Closser et al. Buckle, suspender, J. T. Brodnax. Burglar slarms, circuit closer for, D. A. Palmer. Burner. See Gas burner. Burner. See Gas burner. Cabinet, portable, A. M. Bugbee. Car brake attachment, L. H. Raub. Car coupling, G. C. Collins. Car coupling, G. C. Collins. Car coupling, D. B. Croft. Car coupling, D. B. Croft. Car coupling, G. W. Green. Car coupling, B. Roper. Car coupling, B. Roper. Car coupling, S. W. Wright. Car carding, S. W. Wright. Car carding, S. W. Wright. Car de grate, railway, R. D. Wilson. Car motor jacket, electric, J. Stephenson. Car motor, circuit connection for electric, A. A. Ingraham.	455,247
	Car coupling, G. W. Green	455,237
	Car coupling, B. Roper	455,258
	Car coupling, S. W. Wright	454,970
•	Car, dumping, J. M. Goodwin	454,863
•	Car mileage report, C. C. Gale et al	455,197
3	Car motor jacket, electric, J. Stephenson	454,868
l	Car motors, creant connection for electric, A. A. Ingraham. Car mover, B. W. Drinker. Car, stock, J. A. Stewart. Cars, vestibule hood for, A. Feine et al. Carbonating liquids, H. Hubener. Carding engine, Platt & Richardson. Carding engine calenders or delivery rollers, driving mechanism for B. Ashworth	455,019
3	Car. stock. J. A. Stewart.	455,035 455,130
•	Cars, vestibule hood for, A. Feine et al	455,130 454,996
7	Carding engine. Platt & Richardson	455,102 454,986
ı	Carding engine calenders or delivery rollers, driv-	455.000
	ing mechanism for, R. Ashworth	455,088 454,861
l	Carpet beating machine, J. Hothersall	455,017
	rier.	
,	Carving machines, cutting tool for, F. Snow Cart, road, C. Fahrney Cart, road, C. B. Garrison et al. Case. See Book case. Watch case.	455,064 454.859
	Cart, road, C. B. Garrison et al.	455,198
	Cash and parcel carrier, D. E. Camubell	455,273
,	Cash indicator and register, C. E. Lord	454,972 455 111
	Cash register and indicator, S. P. Watt	454,990
	Cash register, pocket, J. L. Brown	455,161 455,093
•	Cubic Coupper of III of Di Conc.	455,200
	Casting machine, J. S. Griffin	
1	Case. See Book case. Watch case. Cash and parcel carrier, D. E. Campbell. Cash indicator and register, C. E. Lord. Cash register and indicator, F. C. Osborn. Cash register and indicator, S. P. Watt. Cash register, pocket, J. L. Brown. Casket support, H. J. Breeze. Casting machine, J. S. Griffin. Center and invalid's table, combined, A. M. Currier.	454.928
•	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain dwing H. J. Gilbort Chain dwing H. J. Gilbort	454,928 455,032
1 e	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Cur- rier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill	454,928 455,032 454,998 455,226
9	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Cur- rier. Chain attachment, R. A. Breul. Chain, drive, H. J. Gilbert. Chain, drive, A. P. Merrill. Chair. See Dental chair. Folding chair. Check, draught, or other money order or instru-	454,928 455,032 454,998 455,226
9	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding	454,928 455,032 454,998 455,226
9	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's file, C. S. Levy.	454,928 455,032 454,998 455,226 455,127 455,077 454,956
9	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Bental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodiat's file. C. S. Levy. Chuck, Mead & Albert. Chuck Lathe Fullmer & Kelvie	454,928 455,032 454,998 455,226 455,077 454,956 455,073 454,956
?	Casting machine, J. S. Griffin center and invalid's table, combined, A. M. Cur- rier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instru- ment. J. L. Spalding. Cneese vats, beater for, E. Wagner, Jr. Chiropodist's file. C. S. Levy Chuck, Mead & Albert Chuck, lathe, Fulmer & Kelvie. Chuck, lathe, Fulmer & Kelvie. Chuck, lapner, Fulmer & Kelvie.	454,928 455,032 454,998 455,226 455,127 455,076 454,956 455,076 455,196 455,196
9	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's file, C. S. Levy. Chuck, Mead & Albert Chuck, lathe, Fulmer & Kelvie. Chuck, lathe, Fulmer & Kelvie. Churn, W. B. Farrar. Churn, E. I. Harrison.	454,928 455,032 454,998 455,226 455,127 455,077 454,956 455,078 455,196 455,189 455,189
	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's file, C. S. Levy. Chuck, Mead & Albert Chuck, lathe, Fulmer & Kelvie. Chuck, planer, Fulmer & Kelvie. Churn, E. Harrison. Churn, E. Harrison. Churn, E. Wayland.	454,928 455,032 454,988 455,226 455,077 454,956 455,073 455,196 455,189 455,189 454,943 454,923
?	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding Cneese vats, heater for E. Wagner, Jr. Chiropodist's file. C. S. Levy. Chuck, Mead & Albert Chuck, planer, Fulmer & Kelvie. Chuck, planer, Fulmer & Kelvie. Churn, W. B. Farrar Churn, E. I. Harrison. Churn, E. Wayland. Cigar cutter and perforator, A. F. Van Rheeden. Clevis, J. J. McBride.	454,928 455,082 454,998 455,228 455,127 454,956 455,171 455,189 454,943 454,923 454,923 454,923 454,923
	Casting machine, J. S. Griffin center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cheese vats, heater for, E. Wagner, Jr. Chiropodist's file. C. S. Levy. Chuck, Mead & Albert Chuck, Jahrer, Fulmer & Kelvie. Chuck, lathe, Fulmer & Kelvie. Churn, W. B. Farrar. Churn, E. Wayland. Churn, E. Harrison. Churn, E. Harrison. Churn, E. Harrison. Churn, E. Wayland. Cigar cutter and perforator, A. F. Van Rheeden. Clevis, J. J. McBride.	454,928 455,032 454,998 455,226 455,077 454,956 455,073 455,195 455,189 454,943 454,923 454,923 454,923 454,923 454,923 454,923 454,923 454,923 454,923 454,923 454,923
	casting machine, J. S. Griffin center and invalid's table, combined, A. M. Currier chain attachment, R. A. Breul chain, drive, H. J. Gilbert chain, drive, A. P. Merrill chair. See Bental chair. Folding chair. check, draught, or other money order or instrument. J. L. Spalding. cneese vats, beater for, E. Wagner, Jr. chiropodist's flie, C. S. Levy chuck, Mead & Albert chuck, lathe, Fulmer & Kelvie. chuck, lapher, Fulmer & Kelvie. churn, W. B. Farrar churn, E. Harrison. churn, E. Wayland cligar cutter and perforator, A. F. Van Rheeden Clevis, J. J. McBride. Clock for use in electric lighting and other systems, electric, F. Von Hefner-Alteneck.	454,928 455,032 454,988 455,226 455,127 455,077 454,958 455,1107 455,1107 455,1107 455,1107 455,1107 455,1108 455,1108 455,120 455,108 455,108
	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair, See Dental chair. Folding chair. Check, draught, or other money order or instrument J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's file. C. S. Levy Chuck, Mead & Albert Chuck, lathe, Fulmer & Kelvie. Chuck, lathe, Fulmer & Kelvie. Churn, W. B. Farrar Churn, E. Harrison. Churn, E. Harrison. Churn, E. Wayland. Clevis, J. J. McBride. Clock for use in electric lighting and other systems, electric, F. Von Hefuer-Alteneck. Clothes pounder, S. F. Hawley. Clothes pounder, S. F. Hawley. Clother pounder, S. F. Hawley. Coal elevator, B. E. Wightman.	454,928 455,032 454,988 455,226 455,127 455,077 454,958 455,1197 455,1197 455,1197 455,1197 455,1197 455,1197 455,1197 455,1108 455,230 455,230 455,250 455,130
	Casting machine, J. S. Griffin center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's file. C. S. Levy. Chuck, Mead & Albert Chuck, lathe, Fulmer & Kelvie. Chuck, lapher, Fulmer & Kelvie. Churn, W. B. Farrar. Churn, E. Harrison. Churn, E. Harrison. Churn, E. Harrison. Clurie, E. I. Harrison. Clovit for use in electric lighting and other systems, electric, F. Von Hefner-Alteneck. Clothes pounder, S. F. Hawley. Clutch, frictional feed, E. A. Walker. Coafee, etc., machine for polishing and glazing,	454,928 455,032 454,938 455,227 455,127 455,195 455,195 455,198 455,189 455,189 454,923 454,934 455,189 455,18
	Casting machine, J. S. Griffin Center and invalid's table, combined, A. M. Currier Chain attachment, R. A. Breul Chain, drive, H. J. Gilbert Chain, drive, A. P. Merrill Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's flie, C. S. Levy. Chuck, Mead & Albert. Chuck, lathe, Fulmer & Kelvie. Chuck, planer, Fulmer & Kelvie. Churn, E. Harrison. Churn, E. Harrison. Churn, E. Wayland. Cigar cutter and perforator, A. F. Van Rheeden. Clevis, J. J. McBride Clock for use in ejectric lighting and other systems, electric, F. Von Hefner-Alteneck. Clothes pounder, S. F. Hawley. Clutch, frictional feed, E. A. Walker. Coal elevator, B. E. Wightman. Coffee, etc., machine for polishing and glazing, W. P. Clifford.	454,928 455,032 454,938 455,227 455,127 455,127 455,136 455,138 455,138 454,923 454,934 455,108 455,139 455,139 455,139 455,250 455,250 455,250 455,250 455,250
	Chain attachment, R. A. Breul. Chain, drive, H. J. Gibert. Chain, drive, A. P. Merrill. Chair. See Dental chair. Folding chair. Check, draught, or other money order or instrument. J. L. Spalding. Cneese vats, heater for, E. Wagner, Jr. Chiropodist's file. C. S. Levy. Chuck, Mead & Albert. Chuck, lathe, Fulmer & Kelvie. Chuck, lapner, Fulmer & Kelvie. Churn, W. B. Farrar. Churn, E. I Harrison. Churn, E. I Harrison. Churn, E. I Harrison. Clevis, J. J. McBride to Clevis, J. J. McBride Clock for use in ejectric lighting and other systems, electric, F. Von Hefner-Alteneck. Clothes pounder, S. F. Hawley. Clutch, frictional feed, E. A. Walker.	454,928 455,032 454,938 455,226 455,127 455,127 455,135 455,135 455,136 455,136 455,138 455,234 455,246 455,246 455,246 455,246

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•	Coffee pot, E. F. Newcome	454,977
	Countersink gauge, J. A. Goeb	455,199
ĺ	coupling, A. Haentze. Coupling, A. Haentze. Coupling, F. H. Taylor Coupling, F. H. Taylor Coupling, F. H. Taylor Cuthinology Cutting Coupling Cutting	454,866 454,922
	Coupon cutter, G. W. Chapin. Cuff hokler, C. E. Hennies	454.850 455,208 455,212
ŀ	Cultivator, T. B. Hussey	455,212 455,182 454,876
	Cut-out, serial, J. R. Fletcher.	454,876 454,904
	cutter. Coupon cutter. Feed cutter. Straw cutter.	
	Damper, W. J. Kayser. Dead-eye, W. H. Carr. Dental chair, F. E. Case. Digger. See Potato digger. Draught equalizer, S. H. Tinsman. Dramatic effects. apparatus for producing illu-	454,967 455,275
İ	Dental chair, F. E. Case	455,168
	Draught equalizer, S. H. Tinsman	
	Dramatic effects, apparatus for producing illusory, J. W. Knell (now N. Burgess). Drawing knife, J. S. Cantelo. Dress form, W. Vogler. Drying wayn, etc. superstus for J. H. Lovimer.	455,288 454,848
	Dress form, W. Vogler. Drying warp, etc., apparatus for, J. H. Lorimer Dust collector and aspirator, combined, A. N. Wolf. Dye, orange, O. Borgmann Electric dreuits, protector for use in, W. H. Clau-	454,848 455,076 454,913
	Wolf	455,140 454,840
	Electric circuits, protector for use in, W. H. Clausen	454,926
	Sen	454,881 454,938
i	Electric conduits, means for constructing, A. C. Chenoweth	454,939
ļ	Chenoweth Electric current regulator or rheostat, C. D. Sigsbee et al. Electric heater, Drew & Francis.	454,969 454,979
	Electric heater, Drew & Francis Electric lines, apparatus for removing inductive	
	Electric lines, apparatus for removing inductive effects from F. Thomson. Electric meter, Pilkington & White	454,890 454,949
	Electric motors and dynamo-electric machines,	455,110 455,267
	Electric signal for steam vessels, D. D. Wass	455,138 454,995
	Electric switch, automatic, Billberg & Winand Electrical meter. N. Tesla	455,092 455,068
i	automatic regulator for, S. Wheeler Electric signal for steam vessels, D. D. Wass Electric switch, J. Des Brisay Electric switch, automatic, Billberg & Winand Electric ameter, N. Tesla Electro-dynamic machine, G. J. Scott Electro-magnetic mot or, N. Tesla Elevator. See Coal elevator. Hydraulic elevator.	454,882 455,067
i	Elevator. See Coal elevator. Hydraulic elevator.	454.045
i	Elevator, Kelley & Woods. Elevator safety device, W. N. Anderson.	455,148
	Elevator, Kelley & Woods Elevator safety device, W. N. Anderson Elevator stop, automatic, G. H. Haven End gate, wagon, S. H. & D. J. Bass. Engine. See Carding engine. Heat engine. Piston engine. Rotary engine. Traction engine.	455,152
ŧ	ton engine. Rotary engine. Traction engine. Wind engine.	
1	Evaporator, G. H. Simpson	$\substack{455,125 \\ 454,836}$
į	Explosive compound, C. Lamm. Fare register, J. T. Cowley.	455,217 455,276
1	Wind engine. Evaporator, G. H. Simpson. Exhauster and ventilator, J. Barnes. Explosive compound, C. Lamm. Fare register, J. T. Cowley. Fare register, L. C. De Sloovere. Fare register, C. A. Neuert. Feed cutter, E. W. Ross. Fence rail and post, S. F. Ames. Fertilizer distributer, R. F. Orr Files, case and drawer for, H. J. Hoffman. Firearm, magazine, R. Dinsmore Fire extinguisher, G. W. Hoglen Fire extinguisher, G. W. Hoglen Fire extinguisher, G. W. Hoglen Fire extinguisher, g. prinkler and alarm, auto-	455,05 0
	Fence rail and post, S. F. Ames.	455,147 451 077
•	Files, case and drawer for, H. J. Hoffman	455,251 455,034
:	Fire escape, H. Mullennex. Fire extinguisher. G. W. Hoglen	455,232 455,209
	Fire extinguishing sprinkler and alarm, automatic, Mayall & Thomasson. Fish hook, A. G. Mack. Flask. See Moulding flask. Eddingspair, C. C. Cokstract	454,914
	Fish book, A. G. Mack	454,982
	Folding machine, Stebbins & McDonald	454,912 455, 0 65
	Furnace, A. Bickelhoupt. Gauge. See Countersink gauge. Game apparatus, D. M. Pickett. Games of chance, appliance for playing, A. Harris.	455 054
ļ	Games of chance, appliance for playing, A. Har-	455 100
	Commont book W C Whiting	455,100 455,080 454,910
ı	Gas burner, L. Kabn. Gas burner, J. Kennedy. Gas distributing systems, reservoir for, A. Wilburner, S. Kennedy.	455,214
!	bur. Gas, manufacturing, W. G. Wood	455,081 454,925
:	Gate, J. D. Calpha	454,847
ī		101,000
1	Generator. See Motor generator. Glasses, supplemental base for, J. F. Bruso	455,094
1	bur. Gas, manufacturing, W. G. Wood. Gate. See Car gate. End gate. Railway gate. Gate, J. D. Calpha. Gate, G. H. Gilmour. Generator. See Motor generator. Glasses, supplemental base for, J. F. Bruso. Gold and silver from their ores by electricalamal- gamation, apparatus for extracting, Button &	455,094
	Generator. See Motor generator. Glasses, supplemental base for, J. F. Bruso Gold and silver from their ores by electricalamal- gamation, apparatus for extracting, Button & Wyeth	455,094 455,164
	Generator. See Motor generator. Glasses, supplemental base for J. F. Bruso	455,094 455,164 455,048 455,132 454,931
	Generator. See Motor generator. Glasses, supplemental base for J. F. BrusoGlasses, supplemental base for J. F. BrusoGold and silver from their ores by electricalamalgamation, apparatus for extracting, Button & WyethGrain drill and fertilizer distributer, combined, E. D. MeadGrain scouring apparatus, Szawinsky & GrozeaGrain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. CroweGrindstone attachment, J. C. Rainey	455,094 455,164 455,048 455,132 454,931 454,841 455,113
	Generator. See Motor generator. Glasses, supplemental base for, J. F. Bruso. Glasses, supplemental base for, J. F. Bruso. Gold and silver from their ores by electricalamalgamation, apparatus for extracting, Button & Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring apparatus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. B. G. A. Canet.	455,094 455,164 455,048 455,132 454,931 454,931 454,905 455,166
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grindstone attachment, J. C. Rainey. Guitar, C. F. Geiger. Gun carriage, J. R. G. A. Canet. Gun recoll concrated magazine R. M. Catlin. Gun recoll concrated magazine R. M. Catlin.	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined. E. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Gridatone attachment, J. C. Rainey. Gridance attachment, J. C. Rainey. Gridance attachment, J. C. Rainey. Gridance attachment, J. C. Rainey. Guitan, C. F. Geiger. Gun arriage, J. B. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, L. J. Doughty. Harrow, L. Dowghty. Harrow, W. F. Ludwick. Harrow, spring tooth, C. La Dow. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman Heat engine, internal combustion, J. Atkinson. Heatens, See Electric heater. Milk heater. Heating apparatus, steam, W. E. Hall. Heitching device, F. S. G. Bonneau. Holder. See Culf holder. Key holder, Sash	455,164 455,048 455,132 454,931 454,841 455,113 454,905 455,166 454,902
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 455,132 454,841 454,905 455,186 455,186 455,202 455,203 455,203 455,203 455,204 456,256 456,25
	Wyeth. Grain drill and fertilizer distributer, combined, E. D. Mead. F. D. Mead. Grain scouring ap paratus, Szawinsky & Grozea. Grain testing apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Graintesting apparatus, P. Heinsdorf. Grate, revoluble, P. L. Crowe. Grate, revoluble, P. L. Crowe. Guntarriage, J. R. G. A. Canet. Gun, recoil-operated magazine, R. M. Catlin. Handle. See Mower handle. Harness, J. J. Hardy. Harrow, J. J. Doughty. Harrow, J. J. Doughty. Harrow, W. F. Ludwick. Harrow, wheel, Braden & Elliott. Hasp lock, J. R. Ayres. Hay carrier, W. E. Fullmer. Hay rake, D. F. Oliver. Hay stacker, J. Holman. Heat engine, internal combustion, J. Atkinson. Heaten system, steam, W. E. Hall. Hietching device, F. S. G. Bonneau. Holder. See Cluff holder. Key holder. Sash holder. See with holder. Sewing machine at- tachment holder. Tool holder. Now Humb- Kee Field hook. Garment hook. Plumb- Restricts of Wilders and W. W. Miller of W. Wilders on the W. W. W. M. W.	455,164 455,048 455,132 454,841 454,905 455,186 455,186 455,202 455,202 455,256 455,256 455,262 456,256 456,25
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