Gold ores, etc., purifying, B. F. Penniman..... 180,058

the sand, and also the gravel, should be washed. dampness." How is this? A. Because of the salt with which it is more or less impregnated. 4. In the absence of broken stone and the like, will gravel and sand do? A. Yes, if the gravel is of good size. 5. Will such a wall be damp? If so, would it need furring, or should it be hollow, as recommended by Gilmore, in his work on "Mortar and Cements"? A. Yes, it would need to be protected on the inside in some way against the condensation of water from the air in winter. 6. How are the parts proportioned, by weight or measure? A. By measure. 7. Drs. Chase and Youmans recommend freshly burnt lime; you recommend cement. If lime, being cheaper, will do, no one will use cement or water lime (which, I think, is the same). Suppose we take % freshly burnt lime and 1/2 water lime, how will that do?

A. Pure cement of the best quality should be used. We presume that this is what you mean by "water lime." No common lime should be mixed with it if you want a permanent wall. 8. In using cement lime, are the proportions taken before slaking or after? A. Before. 9. How are sills, caps, and cornices made? A. These may be cast

(29) S. A. & S. ask: What will prevent the forming of vitriol crystals on the outside of telegraph battery jars? We use stone jars, which become entirely coated on the outside in a short space of time. A. A good way to prevent the fluid from creeping over the tops of the jars and crystalizing on the surface is to paint the top of the jars for half an inch.

(30) R. S. asks: What is the solution used by sugar refiners in the centrifugals to give to sugar the bright yellow straw color? A. This color, we believe, is obtained during the bleaching process, and sometimes by the addition of small quantities of dye stuffs, such as turmeric, etc.

(31) W. R. says: I. In a Holtz induction machine, where the revolving plate is supported by a thick glass plate, held horizontally between two insulated plates, of what material is it best to make the axle of the revolving plate? A. Wood and glass are frequently used. Perhaps an ebonite axle would answer best. 2. If ebonite be substituted for this horizontal glass plate, can as good electrical results be obtained? A. We believe some experimenters give ebonite the preference. 3. If coatings of paper or foil be attached to the sector plate, and these have projecting rows of pin points, and the edges that hold these pin points are opposite collecting combs of conductor, is it necessary to have windows or holes cut in sector plate to relieve the bound electricity? A. In the improved Heltz machine neither windows nor armatures are used. Two plates are mounted horizontally and both revelve, the direction of one being opposite that of the other. Four collecting arms are placed, at equal distance apart, around the plates, two above the upper and two below the under plate, and the order alternating, so that if the first is an upper arm the next is under, and so on. The first upper and under arms are connected metallically, as are also the third and last. Sometimes also an extra arm is used, which brings an upper and under arm together in one place. This arrangement appears to improve the action of the machine. 4 To steady the revolving plate, should its edge or circumference rest or turn in grooved pulleys, fastened on the small wooden pillars or posts that support the sector plate, these posts passing from horizontal supporting plates to sector? A. Grooved pulleys are best, unless, as is often done with the old style machines, the fixed plate is perforated at the center, and the revolving plate mounted on an axis passing through it.

(32) D. W. W. asks: What substance can I use to illuminate the dial of a watch sufficiently to show the hour in the dark? Will the small glass tube with phosphorus and oil do? A. We do not consider it practicable nor advisable to attempt the application of the phosphor lamp in the way you mention.

(33) N. S. W. asks. Is the first six months (vol. 1) of the Scientific American Supplement furnished bound? If so, price? A. We furnish the first volume of Scientific American Suppli-MENT, stitched in paper covers, for \$2.50. In boards, \$3.50. Probably few persons appreciate the great scope and remarkable cheapness of the work we are carrying on under the title of our Supplement. The first volume, lately completed. is illustrated by over 1,000 engravings and figures, covering all the most recent and interesting scientific information of the day. It includes the history and progress of the Great Exhibition. The compact form, and embrace such an enormous variety of subjects, that if printed in ordinary book form they would occupy 3,600 pages, or volumes of 500 pages each. In the domain of Science, nothing comparable to the Scientific AMERICAN and SUPPLEMENT, in the matter of economy of price, has heretofore been given to

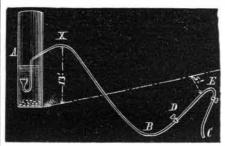
(34) P. F. asks: How can I dissolve soda in oil? A. You do not state what kind of oil. Except in the fatty oils, containing free glycerin or acids, it is nearly insoluble. In any case, an elevated temperature increases solubility.

(35) W. E. H. says: A friend of mine re cently bought mea piece of glass tubing of % inch internal and 34 inch external diameter, about 1 foot in length. He stated that it formed part of a gage tube to show the hight of water in a mill flume, and that, getting dirty, the engineer in charge took it down to clean it, which he accom-plished by wiping with waste and emery flour on the end of a pine stick. The tube, which had been in use for years, was then laid down in the engine room temporarily, when in a few hours it broke spontaneously into a dozen pieces. The fractures

are nearly all alike, running a short distance lengthwise and then directly around thetube, cutting it off. I took the piece he gave me; and after cleaning with water and drying it, I laid it on a bench with a piece of iron wire and another of brass wire laid loosely through the tube. In a few hours it broke into three pieces, and in the course of the next night into half a dozen pieces, all the fractures having the direction as stated above, and some of the pieces being interchangeable on account of the striking similarity of the ends. To ascertain whether imperfect annealing had to do with the breaking, I took a piece two inches long under the blowpipe and heated it so hot that it flattened by its own weight, without any tendency to fly to pieces. A. These tubes are usually made of the hardest glass, and carefully annealed; but from the fact of your ability to soften the tube as you represent, it appears to have been otherwise in this particular case. There may have been flaws in the glass, which were further aggravated by the careless use of emery or otherwise, but we think it probable that there were some facts connected with this peculiar breakage which you have failed to discover or meution.

(36) J. I. asks: What is the best cheap solvent for ordinary tar? A. Benzine.

(37) R. M. says: I take water by siphon from a well distant from my house about 950 feet. I first laid ½ inch lead pipe, through which the water flowed nicely for a year or more, when the pipe was burst by frost. After repairing it I could never get it to work satisfactorily. With a view to improving it, I substituted a ¾ inch pipe from the well, A, to the lowest part of the siphon, B, the 1/2 inch pipe from that point to the house being in good condition. I now find that, by filling the pipe by either force or suction, the water will continue running for from ½ an hour to 12 hours, when it stops. I sometimes imagine that it runs only long enough to allow what water there may be in the pipe from upper part of siphon to the outletto flow out. I wish to ascertain if you can suggest where the defect is, and give the remedy. The pipe is perfectly airtight. I have thought that by using a 1/2 inch pipe from well to the high-



est point of the siphon, X, the difficulty might be overcome. The water has to rise from bottom of well to this point about 13 feet. I have a fall of 5 feet from bottom of well to the highest point of discharge, E. I have experimented and thoroughly exhausted all the local hydraulic knowledge, and now apply to you. Can you tell me what further means I can try with it? A. The end of the pipe at the strainer in the well may be stopped up with dirt, or there may be some obstruction in the end at the house. If this is not so, it would seem to imply that the pipe is not airtight; this point should be tested thoroughly. Sometimes air bubbles from the water will collect at the highest point of the siphon, and trap it there, but this is not likely to occur in so short a time; the probability is that the pipe either leaks or is

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

E. C.-No. 1 is a piece of slate with chalcopyrite, sulphide of copper, and protoxide of copper. No. 2 is coal.-G. V. H.-It is iron pyrites in clay.

J. C. M. savs: I have seen a musical instrument in which the sound was produced by a crank in the end of the instrument, the notes being produced on keys along the side. How is the inside of the instrument arranged?—J. G. W. asks: What is the construction of the Langstroth beehive?

## COMMUNICATIONS RECEIVED.

The Editor of the Scientific American acknowledges, with much pleasure, the receipt of original papers and contribution supon the following subjects:

On Ornamer On a Theory of Electricity. By J. N. L. On a New Electric Battery. By W. R. H.

Also inquiries and answers from the following: W. B. A.-G. B.-E. B.-A. L. F.-W. G.-C. H. C.-C. H. B.-E. B.-G. W. D.-F. S. D.-H. S.-G. H.-R. R.-L. F.-A. T.-H. P.-W. S. V.-G. W. D.-E. T. H. L. -W. E. F. -W. S. -H. S. W. -B. R. H. -II. C. R. -G. B. Y. -J. M. N.

## HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Enquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket. as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of inquiries analogous to the following are sent: "Who makes carbons for batteries? Who sells gutta percha? Who sells incubators?

the cheapest photographic apparatus?" All such personal inquiries are printed, as will be observed, in the column of "Business and Personal," which is specially set apart for that pursubject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

## [OFFICIAL]

## INDEX OF INVENTIONS

Letters Patent of the United States were Granted in the Week Ending

July 18, 1876, AND EACH BEARING THAT DATE. [Those marked (r) are reissued patents.]

A complete copy of any patent in the annexed list,

including both the specifications and drawings, will be furnished from this office for one dollar. In ordering, please state the number and date of the patent desired. andremit to Munn &Co., 37 Park Row, New York city Alarm, electric burglar, H. A. Brooks............ 179, 998 

 Bale tie, R. De Gray
 179,841

 Bale tie, buckle, J. M. Seymour
 179,872

 Basket, coal, C. Hager.
 179,913

 Bed bottom, spring, C. T. Segar.
 180,072

 Bee hive, Hetherington & Van Deusen.
 180,027

 Bell, W. S. Blake.
 179,840

 Billiard register, J. Rivoire.
 179,866
 Blacking box holder, G. W. Taylor. 180,077
Boiler, feedheater, J. C. Stead (r) 7,228 Boiler tube cleaner, W. Harper...... 180,025 

 Bolt trimmer, T. W. Ellis
 180,015

 Book support or desk, G. B. S. Northrop
 180,052

 Boot heel die, G. Houghton. 150,036
Bread cutter, N. W. Merwin 179,984 Brick machine, E. F. Andrews. 179,988
Bridge, lattice pier, L. Scott. 179,964 

 Burner, gas, E. P. Gleason
 179,852

 Button, sleeve, T. W. F. Smitten
 179,965

 Canal bank, W. Rodney
 179,867

 Canal lock and dam, G. W. Parsons
 180,056

 Car axle box, G. W. Miltimore.
 179,938

 Car coupling, C. A. Feuser.
 180.016

 Car coupling, W. L. Nuckols.
 179,946

 Car link adjuster, G. W. Williamson.
 180,033

 Car replacer, T. B. Purves.
 180,062

 Car roof, J. M. Ayer
 180,085

 Car, sleeping, R. H. Bennett
 179,991

 Car wheels, casting, J. McAllister
 180,048

 Car wheels, casting, J. McAllister
 180,081

 Carbureter, Pollard & Barton
 180,061

 Card, playing, A. Dougherty
 179,847

 Carding machine, J. C. Ryan
 179,962

 Carpet beating machine, E. Spencer
 180,075

 Carpet tining, G. J. Bicknell
 179,889

 Carpet stretcher, G. D. Husemann
 180,032

 Cartouch for dressing wounds, L. Kips
 180,032

 Carticle localing implement, W. W. Arrold
 129,889
 Cartridge-loading implement, W. W. Arnold. 179,888 Chain, ornamental, G. Trinks. 180,078 

 Chair, A. Rice
 179,956

 Chair and baby walker, J. B. Poage
 179,953

 Chair, barber's, Kubitschky & Nitschke
 179,859

 Chairs, folding, S. W. Farker 180,073, 180,074
Chairs, folding, E. W. Vaill. 179,978
Chairs, folding, J. E. Wakefield. 179,979,-981,-982,- 179,983
Chair, folding rocking, J. E. Wakefield. 179,980 

 Chair, nursery, E. S. French.
 179,551

 Cheese hoop, S. Wilson (r).
 7,232

 Churn, C. Seibel.
 179,965

 Churn, H. D. Wiswell.
 180,086

 Clamp, hawser, McGill & Bowen.
 179,936

 Clam, joiner's, G. A. Naumann.
 179, 942

 Clock, electric, R. J. Sheehy.
 179, 673

 Clock, lockwork, J. W. Williams.
 179,986

 Clothes line fastener, G. Almont. 179,898 Clutch, friction, B. Sandford. 179, 898 Coffee and spice mill, C. Adams...... 179,885 
 Coffee mill, T. Johnson
 189,034

 Cofflins, depositing, C. A. Sipe (r)
 7,227
 Columns, iron, Cooke & York. 180,006
Cooker, steam, H. D. Dann. 180,009
Cooking apparatus, J. M. Goldsmith. 180,021
Cooler, milk, T. Roach. 179,988 Cotton, packing and baling. J. A. Drake. 179,348, 179,349
Cowl, ventilating, Lamont & Swett. 179,925
Cracker machines, J. Fox. 7,230, 7,231
Cutlery, table, J. B. H. Leonard. 179,927 
 Predging apparatus, J. Grant.
 180,023

 Prill rock, G. Phillips (r).
 7,226

 Prin rock, C. Hinnes
 (7,226)

 Dye, blue, G. Molt.
 179,939

 Egg box, A. H. Lucas.
 180,045

 Egg box, W. Weis.
 179,955

 Elbows, die for making, O. Knapp.
 179,858

 Electric machine, magneto, E. Weston.
 180,082

 Fire place, M. B. King
 179,924

 Fish-hatching apparatus, S. Wilmot
 180,085

 Fish-hatching apparatus, S. Wilmot.
 180,085

 Fluting machine, H. B. Adams (r).
 7,229

 Fork, carving, G. L. Hart.
 179,916

 Fork, hay and manure, W. H. Kretsinger.
 180,041

 Fountain, T. Turrettini.
 179,972

 Frog pad, elastic, G. W. Phillips.
 179,952

 Fruit dryer, D. E. Coleman.
 180,003

 Fruit dryer, S. W. Hope.
 179,921

 Fruit dryer, H. Kelly.
 179,857

 Furnace, A. L. Holley.
 180,028

 Furnace, steam boiler, D. P. Beard.
 179,857

 Garment strap, elastic, R. Gibbons (r)
 7,233

 Gas governor, L. Moritz...... 179,863 

 Gas regulator, H. Stacey.
 179,878

 Gas trap, sewer, B. F. Underwood.
 179,881

Grain dryer, K. Schroll	. 180,07 L
Grinding machine, M. Gregg	
Harness pad, W. H. Bulkley	. 179,999
Harness pad, M. V. Lomgsworth	. 179,930
Harrow, riding, Harris & Bowne	
Harrow cotton planter, J. A, Brent, Jr	179,996
Hatchway, self-closing, H. Rees	180,065
Heat deflector, A. J. Donle	
Hinge, stop, W. Wilson, Jr	179,987
Hog cholera remedy, A. M. Dunn	
Horseshoe machine, C. Briggs	179,997
Hose attachment, D. G. Trembley	
Inhaler, J. S. Letts	180,043
Inhaler, R. L. Steen	
Insects, destroying, S. & I. Loeser	179,929
Ironing apparatus, J. Martin	
Kilns, grate for brick, B. Hall	179,917
Lamp chimney cleaner, L. Van Drezer Lamps, etc, attachment for, E. S. Chase	
Lamp cock attachment, A. Locker	179,860
Leather, dressing, E. Fitzhenry Leather, scouring, etc., F. A. Lockwood	
Leather, splitting, H. F. Osborne	179, 948
Lock attachment, time, H. Gross Lock, door, C. Guild	179,912
Lock for doors, etc., H. L. Arnold Lock for doors, etc., T. Hendricks	
Loom harness, knitting, W. A. Hodgkins	
Loom jacquard, Wyman & Gordon	
Lubricating attachment, C. Jones	179,879
Match safe, C. Frankish	
Mechanic's implement, D. Goodnow, Jr	
Millstones, dressing, W. Coplin	
Mitering machine, A. T. Nichols	179,900
Mucilage holder, J. V. Browne	
Nursing bottle support, J. W. Bray	
Nut, L. A. Rebasz Nut lock, F. Brallier	180,064
Nut lock, K. H. Loomis	. 179, •31
Organ stop action, reed, J. S. Robinson Organ, pneumatic action, J. Egan	
Oven, coke, S. Diescher	180,010
Paint composition, Barret et al	179,990
Painting flower pots, J. Fitts	179,905
Pegging machine, A. C. Gallahue	
Pipes, constructing and laying, A. O' Nei ll	179, 947
Pipes, coiled metallic, E. C. Hubbard  Pistol, spring air, G. A. Walker	
Plaiting machine, L. H. Olmsted	180,054
Plane, bench, W. Montgomery	7,235
Planter, corn, W. W. Hubbard	180,031
Planter, corn, Moore & Argerbright	
rianter, seed, r. J. Underwood	
Planter, seed, F. J. Underwood	
Plow and harrow, cultivator, J. Haynes Poker, C. & S. J. Adams	179,884
Plow and harrow, cultivator, J. Haynes	179,884 179,874 7,224
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley	179,884 179,874 7,224 179,993
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp	179,884 179,874 7,224 179,993 179,911 179,838
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon	179,884 179,874 7,224 179,993 179,911 179,838 180,057
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,864 180,069
Plow and harrow, cultivator, J. Haynes	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,564 180,069 180,033 180,022
Plow and harrow, cultivator, J. Haynes	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,864 180,069 180,033 180,022 180,049
Plow and harrow, cultivator, J. Haynes	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,864 180,069 180,033 180,022 180,049 180,017 179,935
Plow and harrow, cultivator, J. Haynes	179,884 179,874 7,224 179,903 179,911 179,935 180,057 179,864 180,069 180,033 180,022 180,047 179,935 180,049
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby  Radiator, steam, A. L. Ide  Railway cars, etc., warming, Grandjean et al  Railway rails, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller  Railway signal, J. E. McCarty  Italiway tie, G. W. Williamson.  Reaper and mower, A. J. Cook  Registering apparatus, J. C. & O. Jenkins	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,564 180,069 180,069 180,017 179,935 180,004 180,017
Plow and harrow, cultivator, J. Haynes	179,884 179,874 7,224 179,911 179,913 180,067 179,566 180,033 180,022 180,049 180,017 179,985 180,004 179,922 179,922
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway rails, roll for reworking, J. McCaffrey.  Railway signal, J. E. McCarty.  Itailway signal, J. E. McCarty.  Itailway tie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin.  Roofing composition, C. M. Warren.	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,864 180,069 180,033 180,032 180,049 180,017 179,935 180,004 179,922 179,960 179,983 180,081
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp  Pump bucket, dain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby  Radiator, steam, A. L. Ide  Railway cars, etc., warming, Grandjean et al  Railway signal, Fish & Miller  Railway signal, J. E. McCarty  Railway signal, J. E. McCarty  Railway ie, G. W. Williamson  Reaper and mower, A. J. Cook  Registering apparatus, J. C. & O. Jenkins  Resin, etc., production of, A. Rock  Ridge-forming machine, A. D. Martin	179,884 179,874 7,224 179,913 179,911 179,838 180,057 179,961 180,069 180,032 180,022 180,021 180,041 180,041 180,044 179,922 179,960 179,983 180,084 179,983 180,084 179,983
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Ikailway signal, J. E. McCarty.  Ikailway tie, G. W. Williamson.  Reaperand mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock  Reidge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck, L. Hawkins.	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,864 180,069 180,032 180,049 180,017 179,935 180,004 179,922 179,963 180,081 179,343 179,343 179,343 179,436 179,917
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams.  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby  Radiator, steam, A. L. Ide  Railway cars, etc., warming, Grandjean et al  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty  Ikailway tie, G. W. Williamson  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin.  Roofing composition, C. M. Warren.  Safe, burglar-proof, C. Diebold.  Safe, pigeon hole, H. F. Ufford.	179,884 179,874 7,224 179,993 179,911 179,838 180,037 178,864 180,032 180,049 180,041 179,935 180,084 179,932 179,960 179,983 180,084 179,983 179,883 179,343 179,343 179,350
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itallway signal, J. E. McCarty.  Itallway tie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford  Saw buck, L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.	179,884 179,874 7,224 179,993 179,911 179,838 180,057 179,864 180,069 180,033 180,022 180,049 180,017 179,985 180,004 179,922 179,965 179,983 180,081 179,983 179,343 179,97 179,97 179,97
Plow and harrow, cultivator, J. Haynes Poker, C. & S. J. Adams Printer, electric, R. J. Sheehy Printer, electric, R. J. Sheehy Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley Pump and funnel, H. A. Guignon Pump bucket, W. Beauchamp Pump bucket, chain, W. Peckham Pump, oil and liquid, H. M. Parshall Pumps condenser for steam, F. E. Saxby Radiator, steam, A. L. Ide Railway cars, etc., warming, Grandjean et al. Railway signal, Fish & Miller. Railway signal, Fish & Miller. Railway signal, J. E. McCarty Italiway tie, G. W. Williamson. Reaper and mower, A. J. Cook Registering apparatus, J. C. & O. Jenkins Resin, etc., production of, A. Rock Ridge-forming machine, A. D. Martin. Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins Saw, scroll, P. G. Giroud Seat, school, W. F. Spencer Sewing machine, short thread, J. S. Hall (r) Sewing machine marker, A. Johnstone	179,884 179,874 7,224 179,993 179,911 179,538 180,037 179,564 150,069 150,032 150,049 150,017 179,935 150,084 180,004 179,938 180,084 179,938 179,938 179,938 179,977 179,880 179,977 179,877
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway arils, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itallway tie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. J. Callahan.	179,884 179,874 7,224 179,993 179,911 179,838 180,037 179,864 180,069 180,032 180,049 180,017 179,935 180,084 180,094 179,922 179,983 180,081 179,983 180,081 179,983 179,983 179,917 179,907 179,80 179,977 180,068 7,225 180,068 7,25 180,068
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy  Printer, electric, R. J. Sheehy  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby  Radiator, steam, A. L. Ide  Railway rails, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller  Railway signal, Fish & Miller  Railway signal, J. E. McCarty  Railway signal, J. E. McCarty  Railway tie, G. W. Williamson  Reaper and mower, A. J. Cook  Registering apparatus, J. C. & O. Jenkins  Resin, etc., production of, A. Rock  Ridge-forming machine, A. D. Martin  Safe, burglar-proof, C. Diebold  Safe, burglar-proof, C. Diebold  Safe, burglar-proof, C. Diebold  Saw buck. L. Hawkins  Saw, scroll, P. G. Giroud  Seat, school, W. F. Spencer  Separator, grain, W. H. Rickard  Sewing machine marker, A. Johnstone  Sewing machine marker, A. Johnstone  Sewing machine, A. Reitze  Shaftcoupling, G. E. Rider  Shaftcoupling, G. E. Rider  Sharpening machine, A. Reitze	179,884 179,874 7,224 179,993 179,911 179,838 180,037 179,564 180,069 180,022 180,049 180,017 179,935 180,084 180,004 179,935 180,084 179,960 179,983 179,970 179,877 180,068 7,225 180,635 179,893 179,997 180,683 179,893 179,997
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall  Pumps condenser for steam, F. E. Saxby  Railador, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Kailway signal, J. E. McCarty.  Kailway ie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren  Safe, pigeon hole, H. F. Ufford  Saw buck. L. Hawkins  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer  Separator, grain, W. H. Rickard.  Sewing machine marker, A. Johnstone  Sewing machine crate, A. J. Callahan  Shaftcoupling, G. E. Rider.  Shapening machine, A. Reitze  Shoe, M. R. Bokkin	179,884 179,874 7,224 179,993 179,911 179,838 180,037 179,864 180,069 180,032 180,049 180,049 180,041 179,935 180,081 179,983 180,081 179,983 179,983 179,97 179,57 180,068 7,225 180,068 7,295 179,983 179,993 179,97 180,068 7,25 7,25 7,25 7,25 7,25 7,25 7,25 7,25
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway rails, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Italiway tie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, burglar-proof, C. Diebold.  Safe, pigeon hole, H. F. Ufford  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine marker, A. Johnstone  Sewing machine marker, A. Johnstone  Sewing machine marker, A. J. Callahan  Shaft coupling, G. E. Rider.  Sharpening machine, A. Reitze.  Shoe, M. R. Bodkin.  Shoe spegs, making, J. H. Olivey.	179,884 179,874 7,224 179,993 179,911 179,535 180,057 179,564 150,069 180,032 180,049 180,041 179,935 180,084 179,935 180,084 179,983 179,983 179,983 179,977 180,085 7,225 180,635 179,977 180,085 179,997 179,977 180,085 7,225 180,635 179,997 179,997 179,997 180,085 7,255 180,635 179,997 180,065 179,991
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Railway signal, J. E. McCarty.  Railway signal, J. C. & O. Jenkins.  Reaperand mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck, L. Hawkins.  Saw, scroll, P. G. Giroud.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. J. Callahan.  Shaftcoupling, G. E. Rider.  Sharpening machine, A. D. Choley.	179,884 179,874 7,224 179,993 179,911 179,838 180,037 179,864 180,069 180,022 180,049 180,017 179,935 180,084 180,004 179,935 180,084 179,938 179,960 179,983 179,960 179,983 179,97 180,068 7,255 180,684 179,589 179,97 180,068 7,255 180,685 179,97 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068 7,255 179,987 180,068
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Italiway signal, J. E. McCarty.  Italiway signal, J. E. McCarty.  Railway signal, J. C. & O. Jenkins.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren  Safe, burglar-proof, C. Diebold.  Safe, pigeon hole, H. F. Ufford.  Saw buck, L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine marker, A. J. Callahan  Shaft coupling, G. E. Rider.  Sharpening machine, A. Deltahan  Shaft coupling, G. E. Rider.  Sharpening machine, A. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spindles, clamp bobbin for, W. C. Burch.	179,854 179,874 7,224 179,903 179,911 179,835 180,037 173,564 180,069 180,069 180,022 180,049 180,041 180,071 179,935 180,084 180,084 179,935 179,960 179,938 179,960 179,938 179,960 179,977 180,084 179,977 180,084 179,977 179,977 180,063 179,977 180,063 179,977 180,063 179,953 179,953 179,953 179,953 179,953 179,953 179,954 180,067 180,070 180,070 180,070 180,070 180,070 180,070
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway sils, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itallway tie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. J. Callahan.  Shaftcoupling, G. E. Rider.  Sharpening machine, A. Botanhan.  Shaftcoupling, G. E. Rider.  Sharpening machine, A. P. Ramsdell.  Sharpening macking, J. H. Olivey.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre  Speaking tube catch, W. R. Ostrander.	179,884 179,874 7,224 179,993 179,911 179,838 180,037 179,564 180,069 180,022 180,049 180,017 179,935 180,084 180,004 179,935 180,084 179,960 179,983 179,97 179,922 179,960 179,983 179,97 180,068 7,225 180,068 7,225 180,068 7,225 180,068 179,993 179,97 180,068 7,225 180,068 179,993 179,993 179,997 180,068 7,225 180,068 179,993 179,997 180,068 179,991 180,068 179,991 180,067 179,891 180,067 179,891 180,067 179,891 180,067 179,891 180,067
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway rails, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itailway signal, J. E. McCarty.  Itailway signal, J. E. McCarty.  Railway signal, J. C. & O. Jenkins.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, burglar-proof, C. Diebold.  Safe, pigeon hole, H. F. Ufford.  Saw buck, L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine marker, A. J. Callahan.  Shaft coupling, G. E. Rider.  Shappening machine, A. Dettee.  Shoe, M. R. Bookin.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Sprinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stack cover, Tuck et al.	179,854 179,874 7,224 179,993 179,911 179,535 180,037 173,564 180,069 180,069 180,049 180,041 180,041 179,935 180,084 180,084 180,084 179,933 179,960 179,933 179,830 179,937 180,084 179,937 180,084 179,938 179,950 179,977 180,065 7,225 180,063 179,957 180,065 179,957 180,065 179,957 180,065 179,959 180,067 179,951 180,070 180,070 180,070 180,007
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itailway signal, J. E. McCarty.  Itailway tie, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. Johnstone  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. Johnstone  Sewing machine, a. Reitze.  Shoe, M. R. Bodkin.  Shoe pegs, making, J. H. Olivey.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spinkler, lawn, G. H. Copping.	179,854 179,874 7,224 179,993 179,911 179,585 180,057 179,564 180,069 180,049 180,041 179,935 180,084 179,983 180,084 179,983 179,983 179,987 180,084 179,991 179,971 180,085 179,971 180,086 179,9891 179,971 180,087 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,087 179,971 180,070 180,070 179,971 179,976 179,971
Plow and harrow, cultivator, J. Haynes.  Poker, C. & S. J. Adams.  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Italiway signal, J. E. McCarty.  Italiway signal, J. E. McCarty.  Italiway signal, G. W. Williamson.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, burglar-proof, C. Diebold.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine marker, A. J. Callahan.  Shaftcoupling, G. E. Rider.  Sharpening machine, A. Reitze.  Shoe, M. R. Bodkin.  Shoe, M. R. Bodkin.  Shoe, M. R. Bodkin.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Sprinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stave-aressing machine, A. Luckhaupt.  Steamer, J. B. Moffatt.  Steamer, feed, W. Pierce.	179,854 179,874 7,224 179,903 179,911 179,835 180,063 180,063 180,063 180,064 180,064 180,084 180,084 179,935 180,084 179,936 179,936 179,936 179,937 180,064 179,977 180,063 179,977 180,063 179,977 180,063 179,977 180,063 179,977 180,063 179,977 180,067 179,977 180,067 179,977 180,067 179,977 180,067 179,977 180,067 179,977 180,067 179,977 180,067 179,976 180,070 180,070 180,070 180,070 180,067 179,976 180,067 179,976 180,070
Plow and harrow, cultivator, J. Haynes  Poker, C. & S. J. Adams  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, W. Beauchamp.  Pump bucket, chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Railway signal, J. E. McCarty.  Railway signal, J. E. McCarty.  Railway signal, J. C. & O. Jenkins.  Reaper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren  Safe, pigeon hole, H. F. Ufford  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine marker, A. Johnstone  Sewing machine marker, A. J. Callahan  Shaftcoupling, G. E. Rider.  Shoe, M. R. Bokkin  Shoe, M. R. Bokkin  Shoe, M. R. Bokkin  Shoe, Smaking wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stamer, J. B. Moffatt.  Steamer, J. B. Moffatt.  Steamer, J. B. Moffatt.  Steamer, J. B. Moffatt.	179,854 179,874 7,224 179,993 179,911 179,535 180,067 179,564 180,069 180,022 180,049 180,004 179,935 180,084 180,004 179,960 179,960 179,983 180,084 179,960 179,983 179,976 179,987 180,068 7,225 180,635 179,991 180,053 179,997 179,877 180,068 7,225 180,068 7,225 180,069 179,997 179,976 180,070 180,070 180,070 179,961 180,070 179,9662 180,060 179,9662 180,060 179,9662 180,060 179,862 180,060 179,862 180,060 179,862 180,060
Plow and harrow, cultivator, J. Haynes.  Poker, C. & S. J. Adams.  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway sils, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Italiway signal, J. E. McCarty.  Italiway tie, G. W. Williamson.  Reaperand mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. J. Callahan.  Shaftcoupling, G. E. Rider.  Sharpening machine, A. D. Callahan.  Shaftcoupling, G. E. Rider.  Sharpening machine, A. W. Rickard.  Shoe, M. R. Bodkin.  Shoe pegs, making, J. H. Olivey.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stave-dressing machine, A. Luckhaupt  Steamer, J. B. Monfatt.  Steamer, feed, W. Pierce.  Stove, cooking, E. Bussey.  Straw cutter, J. Laughlin.	179,854 179,874 7,224 179,993 179,911 179,585 180,037 179,564 180,038 180,022 180,049 180,041 179,985 180,084 180,094 179,960 179,960 179,960 179,971 180,064 179,971 180,063 179,971 180,071
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Pump and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway rails, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Hailway tie, G. W. Williamson. Reaper and mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock Ridge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine marker, A. Johnstone Sewing machine marker, A. Johnstone Sewing machine marker, A. Johnstone Sewing machine marker, A. J. Callahan Shaft coupling, G. E. Rider. Shapening machine, A. Reitze. Shoe, M. R. Bodkin. Slate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Spindles, clamp bobbin for, W. C. Burch. Sprinkler, lawn, G. H. Copping Stable, F. M. Dixon. Stack cover, Tuck et al. Stave-dressing machine, A. Luckhaupt Steamer, J. B. Moñatt. Steamer, J. B. Moñatt. Steamer, J. S. Parsons. Table, folding, W. A. Root.	179,884 179,874 7,224 179,993 179,911 179,838 180,037 179,564 180,069 180,049 180,041 179,983 180,084 180,084 179,983 179,976 179,983 179,976 179,987 180,068 7,225 180,684 179,976 179,987 180,068 7,225 180,685 179,976 179,991 180,081 179,976 180,068 179,991 180,068 179,976 180,068 179,976 180,068 179,976 180,068 179,991 180,068 179,991 180,068 179,991 180,053 179,991 180,053 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991 180,055 179,991
Plow and harrow, cultivator, J. Haynes.  Poker, C. & S. J. Adams.  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway sils, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itallway tie, G. W. Williamson.  Reaperand mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine crate, A. J. Callahan  Shaftcoupling, G. E. Rider.  Sharpening machine, Short thread, J. S. Hall (r)  Sewing machine marker, A. Johnstone  Sewing machine marker, A. Johnstone  Sewing machine, G. E. Rider.  Sharpening machine, J. H. Olivey.  Shoe, M. R. Bodkin.  Shoe pegs, making, J. H. Olivey.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stake over, Tuck et al.  Stave-dressing machine, A. Luckhaupt  Stave-dressing machine, A. Bussey.  Stave cutter, J. Laughlin.  Syringe, J. S. Parsons.  Table, folding, W. A. Root.  Tecth, filling, R. Noble.	179,854 179,874 7,224 179,993 179,911 179,535 180,069 180,069 180,049 180,041 179,935 180,084 180,004 179,983 180,084 179,983 179,983 179,983 179,983 179,983 179,983 179,983 179,983 179,983 179,987 180,068 7,225 180,068 7,25 180,068 7,29 180,068 7,29 180,068 7,29 180,068 179,997 179,977 180,068 179,989 179,997 179,976 180,063 179,9861 180,060 179,865 180,060 179,865 180,064 179,9661 179,961
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Prump and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway rails, roll for reworking, J. McCaffrey. Railway rails, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Itailway signal, J. E. McCarty. Itailway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Reaper and mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock Reidge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine marker, A. J. Callahan. Shaft toupling, G. E. Rider. Sharpening machine, A. Reitze. Shoe, M. R. Bodkin. Shoe, M. R. Bodkin. Shoe, M. R. Bodkin. Shaeking tube catch, W. R. Ostrander. Spindles, clamp bobbin for, W. C. Burch. Sprinkler, lawn, G. H. Copping. Stable, F. M. Dixon. Stack cover, Tuck et al. Stave-dressing machine, A. Luckhaupt Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, Sprinkler, Bussey. Straw cutter, J. Laughlin. Syringe, J. S. Parsons. Table, folding, W. A. Root. Teeth, filling, R. Noble. Telegraph, printing, R. J. Sheehy.	179,884 179,874 7,224 179,993 179,911 179,878 180,057 179,564 180,069 180,049 180,041 179,985 180,084 179,983 180,084 179,983 179,980 179,987 180,084 179,971 180,084 179,971 180,085 179,971 180,086 179,971 180,087 179,971 180,086 179,991 179,971 180,086 179,9891 179,971 180,085 179,9891 179,971 180,085 179,9891 179,991 180,055 179,9862 180,0660 179,9662 180,0600 179,9662 180,0042 179,9661 179,9661 179,9761 179,9761 179,9761 179,9761 179,9761 179,9761 179,9761 179,9761 179,9761 179,9785
Plow and harrow, cultivator, J. Haynes.  Poker, C. & S. J. Adams.  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway sils, roll for reworking, J. McCaffrey.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Itailway tie, G. W. Williamson.  Reaperand mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. Johnstone  Sewing machine marker, A. J. Callahan  Shaftcoupling, G. E. Rider.  Sharpening machine, A. Reitze.  Shoe, M. R. Bodkin.  Shoe pegs, making, J. H. Olivey.  Shoes, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stave-dressing machine, A. Luckhaupt  Steamer, feed, W. Pierce.  Stove, coal oil, Raschke & Jones  Stove, cooking, E. Bussey.  Straw cutter, J. Laughlin  Syringe, J. S. Parsons.  Table, folding, W. A. Root.  Teeth, filling, R. Noble.  Telegraph, printing, R. J. Shechy.  Toy bell, C. A. Bailey.	179,854 179,874 7,224 179,993 179,911 179,535 180,037 179,864 180,069 180,042 180,049 180,041 179,935 180,084 180,094 179,983 180,084 179,983 179,983 179,983 179,987 180,068 7,225 179,893 179,976 179,897 180,068 7,225 180,068 7,225 180,068 7,225 180,068 179,976 179,977 180,068 7,225 180,068 179,976 179,987 180,068 179,989 179,989 179,989 179,986 180,060 179,966 180,060 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,967 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976 179,976
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Prump and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway rails, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Itailway signal, J. E. McCarty. Itailway signal, J. E. McCarty. Itailway signal, J. E. McCarty. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Resperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Ridge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Saet, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine, short thread, J. S. Hall (r) Sewing machine, A. D. Callahan. Shaftcoupling, G. E. Rider. Shapening machine, A. Reitze. Shoe, M. R. Bodkin. Shate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Sprinkler, lawn, G. H. Copping. Stable, F. M. Dixon. Stable, J. S. Parsons. Table, tolding, W. A. Root. Teeth, filling, R. Noble. Telegraph, printing, R. J. Sheehy. Toy bell, C. A. Bailey. Toy money box, W. Chrysler Toy pistol, Mueller et al. Toy trundle, G. W. Cole.	179,854 179,874 7,224 179,993 179,911 179,585 180,067 179,564 180,069 180,049 180,041 179,935 180,084 180,084 179,935 180,084 179,960 179,983 179,960 179,987 180,084 179,977 180,085 179,977 180,085 179,977 180,085 179,997 180,086 179,991 180,081 179,997 180,085 179,997 180,086 179,996 179,991 180,096 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,967 179,976
Plow and harrow, cultivator, J. Haynes.  Poker, C. & S. J. Adams.  Printer, electric, R. J. Sheehy.  Printer, electric, R. J. Sheehy.  Printing press, J. L. Firm (r)  Privy vaults, etc., emptying, J. Bradley.  Pump and funnel, H. A. Guignon  Pump bucket, W. Beauchamp.  Pump bucket, Chain, W. Peckham  Pump, oil and liquid, H. M. Parshall.  Pumps condenser for steam, F. E. Saxby.  Radiator, steam, A. L. Ide.  Railway cars, etc., warming, Grandjean et al.  Railway signal, Fish & Miller.  Railway signal, J. E. McCarty.  Railway signal, J. E. McCarty.  Railway signal, J. E. McCarty.  Railway signal, J. C. & O. Jenkins.  Resper and mower, A. J. Cook.  Registering apparatus, J. C. & O. Jenkins.  Resin, etc., production of, A. Rock.  Ridge-forming machine, A. D. Martin  Roofing composition, C. M. Warren.  Safe, pigeon hole, H. F. Ufford.  Saw buck. L. Hawkins.  Saw, scroll, P. G. Giroud.  Seat, school, W. F. Spencer.  Separator, grain, W. H. Rickard.  Sewing machine, short thread, J. S. Hall (r)  Sewing machine marker, A. Johnstone  Sewing machine marker, A. J. Callahan  Shaftcoupling, G. E. Rider.  Shapening machine, A. Reitze.  Shoe, M. R. Bokkin.  Shoe gegs, making wood, D. P. Ramsdell.  Slate frame, J. W. Sayre.  Speaking tube catch, W. R. Ostrander.  Spinkler, lawn, G. H. Copping.  Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stave-dressing machine, A. Luckhaupt  Steamer, J. B. Monfatt.  Steamer, J. B. Monfatt.  Steamer, J. S. Parsons.  Table, folding, W. A. Root.  Teetgraph, printing, R. J. Sheehy.  Toy bell, C. A. Bailey.  Toy money box, W. Chrysler  Toy pistol, Mueller et al.  Toy trundle, G. W. Cole.  Trap, animal, J. H. Morris.	179,854 179,874 7,224 179,993 179,911 179,585 180,057 179,564 180,069 180,042 180,041 179,935 180,084 180,004 179,963 179,961 179,983 179,976 179,987 180,068 7,225 180,635 179,960 179,991 180,053 179,976 179,991 180,053 179,976 179,997 179,997 179,997 179,997 179,997 179,997 179,997 179,997 179,997 179,996 179,996 179,996 179,996 179,996 179,996 179,996 179,961 179,962 180,060 179,961 179,962 180,060 179,961 179,962 179,962 179,963 179,963 179,964 179,965 180,001 179,961 179,965 180,001 179,961 179,965 180,001 179,961 179,965 180,001 179,961 179,965 180,002 179,961 179,961 179,963
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Pump and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway signal, Fish & Miller. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Ikailway signal, J. E. McCarty. Ikailway tie, G. W. Williamson. Reaperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Ridge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine, A. D. Callahan. Shaftcoupling, G. E. Rider. Sharpening machine, A. Reitze. Shoe, M. R. Bodkin. Shoe pegs, making, J. H. Olivey. Shoes, making wood, D. P. Ramsdell. Slate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Sprinkler, lawn, G. H. Copping Stable, F. M. Dixon. Stack cover, Tuck et al. Stave-dressing machine, A. Luckhaupt Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, J. S. Parsons. Table, folding, W. A. Root. Tecth, filling, R. Noble. Telegraph, printing, R. J. Sheehy. Toy bell, C. A. Bailey. Toy money box, W. Chrysler Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treadle, H. Reese. Tube expander, Rooney & Newdasher.	179,854 179,874 7,224 179,993 179,911 179,585 180,067 179,564 180,069 180,069 180,069 180,069 179,935 180,084 179,935 180,084 179,935 180,084 179,936 179,960 179,936 179,961 179,977 180,065 179,977 180,065 179,960 179,960 179,961 179,977 180,067 179,979 180,067 179,979 180,067 179,960 179,961 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 179,961 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,961 179,975 179,989 180,000 179,961 179,975 179,989 180,000 179,966
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Primp and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway rails, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Reaper and mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock Reidge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford Saw buck, L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine marker, A. J. Callahan. Shaft toupling, G. E. Rider. Sharpening machine, A. Reitze. Shoe, M. R. Bodkin. Shaft some machine, A. Reitze. Shoe, M. R. Bodkin. Shaft some machine, A. Rock Spraking tube catch, W. R. Ostrander. Sprinkler, lawn, G. H. Copping. Stable, F. M. Dixon. Stable, Folding, W. A. Root. Teeth, filling, R. Noble. Telegraph, printing, R. J. Shechy. Toy bell, C. A. Bailey. Toy money box, W. Chrysler Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treadle, H. Reese. Tybe expander, Rooney & Newdasher. Type writers, key board for, P. Deming.	179,854 179,874 7,224 179,993 179,911 179,585 180,057 179,564 180,069 180,049 180,041 179,985 180,084 179,983 180,084 179,983 179,980 179,980 179,987 180,084 179,997 180,085 179,987 180,087 180,087 179,997 180,086 179,998 179,999 179,999 179,999 180,055 179,957 180,067 179,991 180,055 179,956 180,070 180,05 179,956 180,070 180,05 179,991 179,991 179,976 179,986
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Pump and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway sils, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Reaperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Reidige-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine, short thread, J. S. Hall (r) Sewing machine, Short thread, J. S. Hall (r) Sewing machine marker, A. J. Callahan. Shaft coupling, G. E. Rider. Sharpening machine, A. Reitze. Shapening machine, A. Reitze. Shoe, M. R. Bodkin. Shoe pegs, making, J. H. Olivey. Shoes, making twood, D. P. Ramsdell. Slate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Spindles, clamp bobbin for, W. C. Burch. Sprinkler, lawn, G. H. Copping. Stable, F. M. Dixon. Stack cover, Tuck et al. Stave-dressing machine, A. Luckhaupt Steamer, J. B. Mo flatt. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treade, H. Reese. Tube expander, Rooney & Newdasher Tyop box, W. Chrysler Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treade, H. Reese. Tube expander, Rooney & Newdasher Tyelver, rotary search.	179,854 179,874 7,224 179,903 179,911 179,855 180,037 173,564 180,063 180,022 180,049 180,049 180,084 180,084 180,084 179,935 180,084 179,935 180,084 179,983 179,960 179,983 179,960 179,977 180,068 7,225 180,693 179,977 180,067 179,977 180,068 179,983 179,993 179,993 179,960 179,960 179,961 179,976 180,000 180,007 179,961 179,962 180,000 179,961
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Primp and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway sils, roll for reworking, J. McCaffrey. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Resperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Ridge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine marker, A. Johnstone Sewing machine marker, A. Johnstone Sewing machine marker, A. Johnstone Sewing machine, G. E. Rider. Shapening machine, A. Reitze. Shoe, M. R. Bodkin. Shoe pegs, making, J. H. Olivey. Shoes, making wood, D. P. Ramsdell. Slate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Spinkler, lawn, G. H. Copping. Stable, F. M. Dixon. Stack cover, Tuck et al. Stave-dressing machine, A. Luckhaupt Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, J. S. Parsons. Table, tolding, W. A. Root. Teeth, filling, R. Noble. Telegraph, printing, R. J. Sheehy. Toy bell, C. A. Bailey. Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treadle, H. Reese. Tube expander, Rooney & Newdasher Type writers, key board for, P. Deming. Valve, rotary steam, T. Malcomson.	179,854 179,874 7,224 179,993 179,911 179,585 180,037 178,564 180,069 180,049 180,041 180,084 180,084 180,084 179,935 180,084 180,084 179,935 180,084 179,960 179,961 179,977 180,065 180,063 179,957 180,067 179,911 180,068 179,950 179,960 179,960 179,961 179,977 180,065 180,070 180,070 180,070 180,070 180,070 180,070 180,070 180,070 179,961 179,962 180,066 179,865 180,060 179,965 180,060 179,966 179,966 179,966 179,966 179,966 179,967 179,976
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Primp and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway sils, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Railway signal, J. E. McCarty. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Reaperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Ridige-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine marker, A. Johnstone Sewing machine marker, A. Johnstone Sewing machine marker, A. J. Callahan. Shaftcoupling, G. E. Rider. Sharpening machine, A. Reitze. Sharpening machine, A. Reitze. Sharpening machine, A. W. Sayre. Speaking tube catch, W. R. Ostrander. Spindles, clamp bobbin for, W. C. Burch. Sprinkler, lawn, G. H. Copping. Stable, F. M. Dixon. Stack cover, Tuck et al. Stave-dressing machine, A. Luckhaupt Staemer, J. B. Monfatt. Steamer, J. B. Monfatt. Steamer, J. B. Monfatt. Steamer, J. B. Spesey. Straw cutter, J. Laughlin. Syringe, J. S. Parsons. Table, folding, W. A. Root. Teeth, filling, R. Noble. Telegraph, printing, R. J. Sheehy. Toy bell, C. A. Bailey. Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treadle, H. Reese. Tube expander, Rooney & Newdasher. Typew riters, key board f. Moleder. Wagon bolster, Stubebaker & Hinds Wagon-loading apparatus, A. Taylor. Wagon, milk, A. L. Fish.	179,854 179,874 7,224 179,993 179,911 179,878 180,037 179,564 180,038 180,022 180,049 180,049 180,084 180,094 179,985 180,084 180,094 179,983 180,084 179,983 180,084 179,987 180,084 179,971 179,977 179,877 180,063 179,977 180,063 179,971 180,070 179,971 180,070 179,971 180,070 179,971 180,070 179,971 179,971 179,971 179,976 179,986 179,986 179,986 179,961 179,971 179,901 180,076
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Primp and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins Resperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins Resin, etc., production of, A. Rock. Ridge-forming machine, A. D. Martin Roofing composition, C. M. Warren Safe, burglar-proof, C. Diebold Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Seat, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine marker, A. Johnstone Sewing machine marker, A. Johnstone Sewing machine marker, A. Polnstone Sewing machine, G. E. Rider. Shoe, M. R. Bokkin. Shoe pegs, making, J. H. Olivey. Shoes, making wood, D. P. Ramsdell. Slate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Spindles, clamp bobbin for, W. C. Burch. Stave-dressing machine, A. Luckhaupt Stave-dressing machine, R. J. Sheehy. Toy boll, C. A. Bailey. Toy boll, C. A. Bailey. Toy boll, C. A.	179,854 179,874 7,224 179,993 179,911 179,855 180,037 178,564 180,069 180,069 180,041 179,935 180,084 180,084 180,084 179,935 180,084 179,936 179,960 179,938 179,960 179,977 180,065 179,977 180,067 179,977 180,067 179,979 180,067 179,960 179,960 179,961 179,977 180,067 179,977 180,067 179,979 180,067 179,979 180,067 179,979 180,067 179,979 180,067 179,961 179,979 179,961 179,961 179,979 179,961 179,961 179,961 179,979 179,961 179,966 179,961 179,979 179,961 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,966 179,967 179,979 179,961 179,979 179,961
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Primp and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway sils, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Italiway signal, J. E. McCarty. Italiway tie, G. W. Williamson. Reaperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Reidge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burgiar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Sewing machine, short thread, J. S. Hall (r) Sewing machine marker, A. Johnstone Sewing machine, A. Reitze. Sharpening machine, A. Reitze. Shoe, M. R. Bookkin. Shoe pegs, making, J. H. Olivey. Shoes, making twoed, D. P. Ramsdell. Slate frame, J. W. Sayre.  Spinkler, lawn, G. H. Copping. Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stave-dressing machine, A. Luckhaupt Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, J. B. Moffatt.  Table, folding, W. A. Root.  Tech, filling, R. Noble.  Telegraph, printing, R. J. Shechy. Toy bell, C. A. Bailey. Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treade, H. Reese. Tube expander, Rooney & Newdasher Type writers, key bo	179,854 179,874 7,224 179,993 179,911 179,835 180,037 179,564 180,038 180,022 180,049 180,041 179,985 180,084 179,960 179,960 179,961 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 180,063 179,971 179,971 179,971 179,971 179,971 179,971 179,971 179,972 179,973 179,973 179,973 179,973 179,973 179,973 179,973 179,973 179,973 179,973 179,973 179,973 179,974 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,975 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,977 179,970
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Prump and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway rails, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Railway signal, J. C. & O. Jenkins. Reaper and mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Reidge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burglar-proof, C. Diebold. Saet, school, W. F. Spencer. Separator, grain, W. H. Rickard. Sewing machine, short thread, J. S. Hall (r) Sewing machine, short thread, J. S. Hall (r) Sewing machine, short thread, J. S. Hall (r) Sewing machine, A. Reitze. Shoe, M. R. Bodkin. Shaf toupling, G. E. Rider. Sharpening machine, A. Reitze. Shoe, M. R. Bodkin. Shafe pegs, making, J. H. Olivey. Shoes, making wood, D. P. Ramsdell. Slate frame, J. W. Sayre. Speaking tube catch, W. R. Ostrander. Sprinkler, lawn, G. H. Copping Stable, F. M. Dixon. Stable, J. S. Parsons. Table, tolding, W. A. Root. Teeth, filling, R. Noble. Telegraph, printing, R. J. Sheehy. Toy bell, C. A. Bailey. Toy money box, W. Chrysler Toy britol, Mueller et al. Toy trunde, G. W. Cole. Trap, animal, J. H. Morris. Treade, H. Reese. The worth of the L. J. A. Cole. Wagon bolster, Stubebaker & Hinds Wagon-loading apparatus, A. Taylor. Wagon milk, W. Todd Water closet tank, etc., Peters & Donald. Water closet tank, etc., Peters & Donald.	179,854 179,874 7,224 179,993 179,911 179,585 180,067 179,564 180,069 180,041 179,935 180,084 179,936 179,960 179,961 179,971 180,068 179,972 180,067 179,960 179,960 179,960 179,960 179,961 179,977 180,068 179,977 180,068 179,979 180,067 179,979 180,067 179,979 180,067 179,979 180,067 179,979 180,067 179,979 180,067 179,979 180,067 179,968 179,978 180,068
Plow and harrow, cultivator, J. Haynes. Poker, C. & S. J. Adams. Printer, electric, R. J. Sheehy. Printer, electric, R. J. Sheehy. Printing press, J. L. Firm (r) Privy vaults, etc., emptying, J. Bradley. Primp and funnel, H. A. Guignon Pump bucket, W. Beauchamp. Pump bucket, Chain, W. Peckham Pump, oil and liquid, H. M. Parshall. Pumps condenser for steam, F. E. Saxby. Radiator, steam, A. L. Ide. Railway cars, etc., warming, Grandjean et al. Railway sils, roll for reworking, J. McCaffrey. Railway signal, Fish & Miller. Railway signal, J. E. McCarty. Italiway signal, J. E. McCarty. Italiway tie, G. W. Williamson. Reaperand mower, A. J. Cook. Registering apparatus, J. C. & O. Jenkins. Resin, etc., production of, A. Rock. Reidge-forming machine, A. D. Martin Roofing composition, C. M. Warren. Safe, burgiar-proof, C. Diebold. Safe, pigeon hole, H. F. Ufford. Saw buck. L. Hawkins. Saw, scroll, P. G. Giroud. Sewing machine, short thread, J. S. Hall (r) Sewing machine marker, A. Johnstone Sewing machine, A. Reitze. Sharpening machine, A. Reitze. Shoe, M. R. Bookkin. Shoe pegs, making, J. H. Olivey. Shoes, making twoed, D. P. Ramsdell. Slate frame, J. W. Sayre.  Spinkler, lawn, G. H. Copping. Stable, F. M. Dixon.  Stack cover, Tuck et al.  Stave-dressing machine, A. Luckhaupt Steamer, J. B. Moffatt. Steamer, J. B. Moffatt. Steamer, J. B. Moffatt.  Table, folding, W. A. Root.  Tech, filling, R. Noble.  Telegraph, printing, R. J. Shechy. Toy bell, C. A. Bailey. Toy pistol, Mueller et al. Toy trundle, G. W. Cole. Trap, animal, J. H. Morris. Treade, H. Reese. Tube expander, Rooney & Newdasher Type writers, key bo	179,854 179,874 7,224 179,993 179,911 179,895 180,037 179,564 180,038 180,022 180,049 180,041 179,985 180,084 179,980 179,960 179,960 179,960 179,971 180,064 179,971 180,065 179,981 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 180,067 179,971 179,971 179,972 179,961 179,976 179,976 179,976 179,976 179,977 179,978