Business and Personal.

The charge for Insertion under this head is One Dollar a line for each insertion; about eight words to a line. Advertisements must be received at publication office as early as Thursday morning to appearin next issue.

The right to manufacture the balanced reciprocating counterweight engine, illustrated on page 338, is for sale Perfectly balanced, and needs no flywheel nor foundation. They are entirely free from vibrations. For further particulars apply to Chas. Louque, patentee, 31 Caronde let St., New Orleans, La.

John Kennedy & Co. build high and low pressure steamships and launches with the latest improved Louque's patented balanced reciprocating engine, free from vibration. High speed guaranteed. Photographs of the Leader 46/ length by 8' 6" beam, sent, on re Address John Kennedy & Co., 31 Carondelet St., New Orleans, La.

Walrus Leather, Emery, Glue, and Manufacturers Supplies generally. Greene, Tweed & Co., 83 Chambers St., New York.

Wanted-Patented novelties to manufacture on royalty, or would purchase patent outright. Household articles, in general use preferred. Address, with full particulars, Hardware, Plantsville, Conn.

Montaigne speaks of "reposing upon the pillow of a doubt." Better repose upon the certainty that Dr. Pierce's "Favorite Prescription" will cure all chronic female diseases with their attendant pains and weak

DEAR SIR-Your "Favorite Prescription" has worked wonders in my case. It gave immediate relief. MRS. M. GLEASON, Nunica, Ottawa Co., Mich.

Complete-Practical Machinist, embracing lathe work vise work, drills and drilling, taps and dies, hardening and tempering, the making and use of tools, tool grinding, marking out work, etc. By Joshua Rose. Illustrated by 356 engravings. Thirteenth edition, thoroughly revised and in great part rewritten. In one volume, 12mo. 439 pages. \$2.50. For sale by Munn & Co., 361 Broadway, New York.

Blake's Improved Belt Studs are the best fastening tor Leather or Rubber Belts. Greene. Tweed & Co.,

Apparatus for replacing broken pump chains without disturbing the pump or cistern cover. Individual, city, and State rights for sale by J. B. Brown, patentee. Hanni

The Railroad Gazette, handsomely illustrated, published weekly, at 73 Broadway, New York. Specimen copies free. Send for catalogue of railroad books.

Concrete patents for sale. E. L. Ransome, S. F., Cal. tain by melting old type.

Wanted-Competent draughtsmen, experienced in perience. Address G. S. L., P. O. box 773, New York.

Small Metal Goods of every description made to order. Die work, etc. E. C. Ivins, 528 N. 10th St., Phila., Pa.

Machinist Foreman wanted who can handle fifty men to advantage and increase their production by latest improved ways of doing work. Address P., care of Wilkinson & Co., 352 Atlantic Ave., Boston, Mass.

Friction Clutches from \$2.25 on. J. C. Blevney, New

Haswell's Engineer's Pocket-Book. By Charles H. Haswell, Civil, Marine, and Mechanical Engineer. Giving Tables, Rules, and Formulas pertaining to Mechanics, Mathematics, and Physics, Architecture, Masonry, Steam Vessels, Mills. Limes, Mortars, Cements, etc. 900 ages, leather, pocket-book form, \$4.00. For sale by Munn & Co., 361 Broadway, New York.

Woodworking Machinery of all kinds. The Bentel & Margedant Co., 116 Fourth St., Hamilton, O.

A Catechism on the Locomotive. By M. N. Forney. With 19 plates, 227 engravings, and 600 pages. \$2.50. Sent on receipt of the price by Munn & Co., 361 Broadway,

Guild & Garrison's Steam Pump Works, Brooklyn, N. Y. Pumps for liquids, air, and gases. New catalogue

The Knowles Steam Pump Works, 44 Washington St., Boston, and 93 Liberty St., New York, have just issued a new catalogue, in which are many new and improved forms of Pumping Machinery of the single and duplex, steam and power type. This catalogue will be mailed free of charge on application.

Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. Nickel Plating.-Sole manufacturers cast nickel anodes, pure nickel salts, polishing compositions, etc. \$100
"Little Wonder." A perfect Electro Frating Machine.
Sole manufacturers of the new Dip Lacquer Kristaline.

Complete outfit for plating, etc. Hanson, Van Winkle & Co., Newark, N. J., and 92 and 94 Liberty St., New York. Iron Planer, Lathe, Drill, and other machine tools of modern design. New Haven Mfg. Co., New Haven, Conn.

Supplement Catalogue.—Persons in pursuit of information of any special engineering, mechanical, or scien tific subject, can have catalogue of contents of the Sci-ENTIFIC AMERICAN SUPPLEMENT sent to them free. The SUPPLEMENT contains lengthy articles embracing the whole range of engineering, mechanics, and physical science. Address Munn & Co., Publishers, New York.

Planing and Matching Machines. All kinds Wood Working Machinery. C. B. Rogers & Co., Norwich, Conn. Iron and Steel Wire, Wire Rope, Wire Rope Tramways. Trenton Iron Company, Trenton, N. J.

Iron, Steel, and Copper Drop Forgings of every description. Billings & Spencer Co., Hartford, Conn.

Rubber Belting, all sizes, 7716 per cent regular list All kinds of Rubber Goods at low prices. John W Buckley, 156 South Street, New York.

We are sole manufacturers of the Fibrous Asbestos Removable Pipe and Boiler Coverings. We make pure ashestos goods of all kinds. The Chalmers-Spence Co. 419 East 8th Street, New York.

Wrinkles and Recipes. Compiled from the SCIENTI-FIC AMERICAN. A collection of practical suggestions, processes, and directions, for the Mechanic, Engineer Farmer, and Housekeeper. With a Color Tempering Scale, and numerous wood engravings. Revised by Prof. Thurston and Vander Weyde, and Engineers Buel and Rose. 12mo, eloth, \$2.00. For sale by Munn & Co., 361 Broadway, New York.

Expanders. R. Dudgeon, 24 Columbia St., New York.

Curtis Pressure Regulator and Steam Trap. See p. 142. Send for free Catalogue of Books of Amus Speakers, Dialogues, Card Games, Fortune Tellers, Dream Books, Debates, Letter Writers, Etiquette, etc Dick & Fitzgerald, 18 Ann St., New York.

60,000 Emerson's 1886 B Book of superior saws, with Supplement, sent free to all Sawyers and Lumbermen. Address Emerson, Smith & Co., Limited, Beaver Falls.

Hoisting Engines, Friction Clutch Pulleys, Cut-off Couplings. D. Frisbie & Co., 112 Liberty St., New York. "How to Keep Boilers Clean." Send your address

for free 88 page book. Jas. C. Hotchkiss, 93 John St., N. Y Pays well on Small Investment .- Stereopticons, Magic Lanterns, and Views illustrating every subject for public

exhibitions. Lanterns for colleges, Sunday schools, and home amusements. 136 page illustrated catalogue free McAllister, Manufacturing Optician, 49 Nassau St., N. Y. Astronomical Telescopes, from 6" to largest size. Ob-

ervatory Domes, all sizes. Warner & Swasey, Cleve

Split Pulleys at low prices, and of same strength and appearance as Whole Pulleys. Yocom & Son's Shafting Works, Drinker St., Philadelphia, Pa.



HINTS TO CORRESPONDENTS.

price.

Minerals sent for examination should be distinctly marked or labeled.

(1) C. D. asks: What metal or comound of metals can I use to make small castings as bard (or nearly as hard) as brass. Said metal must melt in a common coal fire. A. Use type metal, which you can procure at a stereotype or type foundry, or can ob-

(2) W. E. S. asks: Is there any kind of blast furnace and steel works construction. State ex- a liquid that can be obtained at a drug store that will not evaporate, and which has no sediment, or very little, and will not freeze above 5 or 10 degrees below zero? A. We recommend you to try glycerine, or it is possible that kerosene or coal oil might answer the purpose. The temperature you give is so extremely low that all ordinary liquids will congeal at it. A mixture of glycerine and water might answer your purpose

> (3) W. B. asks how to make sodium amalgam. When heated, the explosions are so violent that some is lost. Also how to make zinc amalgam; cold it will not amalgamate, and hot it explodes. A The formation of an amalgam of sodium is apt to be accompanied by much violence, unless the mercurv is in large excess. Make a strong amalgam in small quantities by heating in a covered vessel, and mix with more mercury. Zinc and mercury will amalgamate without the least difficulty if a little dilute sulphuric acid is added. It needs little or no heat.

> (4) J. W. K. asks what size an electromagnet would need to be to lift or attract a weight of 10 pounds through a space of 1/4 inch, and how nany Leclanche cells? A. There is no rule for calculating the precise size for given strength of an electro-magnet. Leclanche cells are not good, except for intermittent work. Your magnet should be ten or twelve inches long, with % inch cores, and 5 to 10 Leclanche cells would work it. 2. What effect will mercur have on lead if the lead be immersed in it, or vice ve. s. i. e., with the mercury be affected? A. The lead and mercury will amalgamate, and the mercury will be injured for ordinary us

> (5) Waco asks: 1. Can you tell me of combination of minerals or chemicals that on coming in contact with extreme cold would produce the proper junction of a thermo-electric battery were cooled, an electric current will be generated. which current can be made to produce heat. 2. Would an engine using oil for fuel, and requiring only 30 lb. steam to give it the power of the ordinary locomotive 'at its best," be of any market value? A. We cannot pronounce upon the value of such an engine without further and fuller details. It is all a question of economy of fuel.

> types, the commutator consists of as many segments as there are wires leading from the armature. Will a commutator consisting of 2 or 4 segments answer just as well, provided opposite ends of the armature wiresare connected to opposite egments of commutator or will there be a diminution in strength of the current? A. Any reduction of commutator leaves will impair the working of the machine, or may even stop it. The wire in the armature must form a full and complete circuit. 2. Have you working plans for a larger machine than the Siemens in SUPPLEMENT No. 161? A. We have not, but expect soon to publish a description

> (7) F. M. Casks: How many pounds of wire is required to make a spark coil to light one gas light? Also how many and what kind of batteries it. would be best to use? A. Two or three pounds of No. 16 wire with two Leclanche cells should suffice.

(8) E. M. L. asks for directions for man-Chucks—over 100 different kinds and sizes in stock. ufacturing a liquid shoe dressing. A. Take of shellac Specialsmadeto order. Cushman Chuck Co., Hartford, Ct. one-half pound, alcohol three quarts. Dissolve, and Steam Hammers, Improved Hydraulic Jacks, and Tube add of camphor one and a half ounces, lampblack two

(9) T. P. E. writes: If in fitting a crank INDEX OF INVENTIONS and shaft or any other work, you get a loose fit, where you should have it to drive, and you heat the shaft to a low red, and allow it to cool, repeating the opera tion until the shaft is permanently large enough to make a driving fit, will the quality of the iron be injured thereby? A. The heating and cooling of the end of a shaft many times for the purpose of enlargement to receive a driven-on crank causes considerable change in its molecular structure, and is not considered safe where severe work is required from the crank. For ordinary use or for small shafts, there is no objection except that it is bad practice.

(10) W. M. R.—For computing the safe working pressure for cylindrical shells of boilers: Divide the assumed tensile strength of the iron or steel of the boiler plate by 4 for safety, and this quotient again by one-half the diameter of the boiler shell or cylinder in inches. Then multiply the last quotient by the thickness of the plate in decimals of an inch, and again this product by 0.60 for single rivet seams, or 0.72 for double rivet seams. For example, assuming 50,000 pounds as the ultimate tensile strength of your iron, and a 50 inch boiler, the figures will be for **& inch iron, single riveted seams:

4)50,000 25)12,500 500 .25 125.00 •60 75.00

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

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

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

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

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

Books referred to promptly supplied on receipt of price.

Area of stay.

12,500 Area of stay..... Area between stays 25 sq. ft.) 7500.0

Thickness of plate..... Lb. per sq. in. safe working press. $9\overline{3.00}$ The crown sheet stays are more complex, as also the head sheet stays, in this class of boiler. They would require the inspection of a practical engineer in boiler work to make a safer computation. We refer you for further rules and illustrations for strength of boiler work, to Courtney's "Boiler Maker's Ready Reckoner," which we can furnish for \$3.60.

(11) L. S. B. asks a receipt for making a good fire brick for ordinary stoves, one that can be mixed the same as mortar and put in place to set. A. A good lining for stoves may be made by pulverizing the old brick, or any fire brick, and mixing with a little fresh clay, just enough to make it plastic, with which line the fire plates. Dry out the water before making coal fire. The coal fire will bake and make a solid fire brick lining of your plastic back.

(12) G. F. writes: I have an iron tank in which I wish to keep water for drinking and cooking purposes. What can I do to keep its inner surface from rusting that will not affect the taste of the water? A. Paint the inside; of the tank with Prince's metallic paint and boiled linseed oil 2 coats. Allow first coat to dry thoroughly before putting the second on.

(13) W. E. S. asks how to regild gas fixtures that have been soiled by fly specks. A. The cleaning of the lacquer from gas fixtures and redipping and lacquering is an art that requires much care and experience, too much for the occasional work of a plumber. If you wish to make a trial, we can recommend Spons' "Workshop Receipts," which describes the process of cleaning, dipping and lacquering gas fixtures, price \$2.00. There is a cheap way of varnishing and bronzing with bronze dust as practiced by the painters, the material for which you may obtain through the paint trade. It is possible that washing with warm soap and water will improve them.

(14) Morrisiana says: Will you kindly inform me how I can make the cellar of my house gty? The floor is concreted and there are windows back and front. Still it is damp, and everything in it heat? Can such a thing be done? A. Theoretically if gets mouldy. A. The most thorough way to secure a dry cellar is to plaster the exterior of the cellar walls with the best Portland cement. But this in your case, the wall being already built, would be inconvenient. The next best plau is carefully to point up the joints of the wall upon the inside, with Portland cement made of one part cement and two parts sand. Scratch out the old mortar between the joints and substitute cement. Then you may plaster the walls a quarter of an inch thick with same. Use thorough ventilation. Suc-(6) W. F. H. asks: 1. In an electro dy-cess will depend upon the care and thoroughness with amo machine of the Gramme and Weston and other which the job is done.

(15) G. A. asks a receipt for preparing milk to keep a long time. A. Add bicarbonate of soda in the proportion of about six grains to a quart of milk. and then place in sealed bottles.

(16) D. R. D. asks a recipe for making prepared kindling wood, such as is sold in the grocery stores all through the large cities. A. Dip the wood in melted resin. The following composition is sometimes used: 60 parts melted resin and 40 parts tar, in which the wood is dipped for a moment. Or, take a quart of tar and three pounds of resin, melt them, then cool, mix as much sawdust with a little charcoal added as can be worked in. Spread out on a board, and when cold break up into lumps the size of a hickory nut, and you will have enough kindling to last a good

(17) J. H. asks how to remove the paper pasted on the inside of the cover of an old book. There is a book plate under it and the cover is calf over board. Inside paper is old ribbed linen strongly pasted on. A. The only way in which the paper can be removed is by covering it with a damp cloth, until | Cultivator, P. S. Kinsworthy.....

For which Letters Patent of the United States were Granted,

November 9, 1886,

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.] Abacus, Bolton & Tillmeyer...... 352,218

	Abacus, Bolton & Tillmeyer	352,218
	Acetine blue colors, production of, C. Schraube Aerial vessel, M. S. Cole	352,298
ı	Anchor for anchoring vessels, F. D. Montague	352,481
t	Animals, blanket for, W. B. Logan	352,289
r ,	Anvil, farrier's, C. H. Perkins	3 52,261
i	Auger, post hole. Devitt & Sise	
2 .	Awning, A. Ferrel. Axle arms, making, C. H. Smith	352,121
5 I	Axle arms, making, C. H. Smith	
:	Axle, car, D. C. James	352,411
	Baking and roasting pan, J. B. Leach Bag catcher, mail, Mack & Ward	
	Bag cord case and lock, combined mail, O. B.	
	Young Band attachment. waist. L. Friedenrich	
	Band cutter and feeder, W. A. Brady	552,112
	Barber's chair, F. Heine	352, 242 352,318
	Battery, galvanic, J. W. Hoffman	352,324
i	Battery, galvanic. W. R. Patterson Beams, machine for severing the flanges from I.	
;	W. H. Graham	352,184
۱	Bearing, step, G. F. Eisenhardt Bed bottom, adjustable folding spring, J. L.	
١.	Meeks	352,480
	Beds, bedclothing clamp for, Street & Watters	
-	Bell and alarm, electric, A. Lungen Belting, canvas, M. Gandy	
۱ ا	Bench. See Wash bench.	
:	Bib or apron. W. B. Logan Bicycle, T. B. Jeffery	
	Bicycles, lantern hanger for, T. B. Jeffery	352,191
	Blanket fastening, W. B. Pritchard	
	Board. See Game board. Ironing board.	554,110
4	Boat. See Tornedo bont	
	thread, twine, and cord from, J. Good	
,	Boiler. See Locomotive boiler. Range boiler.	
	Steam boiler. Boiler cleaner, Faries & Wilcox	352,235
	Bolt. See Expansible bolt. Locking bolt.	
	Bolting reels, brushing mechanism for. J. W. Crosby.	352,228
i	Boot, felt, D. B. Platt	352,350
	Boot or shoe form, J. W. Rogers Boot or shoe stretcher, W. Jones	352,158 352,134
:	Boot, rubber, J. L. Tyler, Jr	352,501
۱	Bosom pads, making, T. P. Taylor Bottle wrapper, Hine & Reed	352,208 352,188
:	Bottles, machine for wiring the corked necks of,	
	W. C. Van Vliet	352,168
	Thatcher	352,165
	Box. See Axle box. Cigar box. Bracket. See Scaffolding bracket.	
ļ	Brake. See Car brake. Vehicle brake.	
: :	Brake adjuster, automatic, J. B. Burns Brick kiln, J. R. Kemp	
	Bridges, self-acting safety gate for swing, H.	
•	Marcheter	
;	Buckle, S. N. Stevens	
ŀ,	Bustle, Rice & Landaker	
	Button, M. D. Shipman	352,363
	Buttons, instrument for attaching, W. H. Wood	
; .	Cabinet, J. Longenecker	
l¦	Cable grip. Samuel & Angerer	
. :	Coloulaton C. U. Hannin	352,356
. :	Calculator, G. H. Harris	352,356 352,408
; ; - ;	Calculator, G. H. Harris	352,356 352,408 352,110
. :	Calculator, G. H. Harris	\$52,356 \$52,408 \$52,110 \$52,458
	Calculator, G. H. Harris	352,356 352,408 352,110 352,458 352,225 352,239
3	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly Car coupling, G. S. Gildersleeve Car coupling, J. W. Harrell.	\$52,356 \$52,408 \$52,110 \$52,458 \$52,225 \$52,239 \$66,545 \$52,349
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	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett; Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrelle. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, M. W. Parsons. Car doors, laten lock lor, U. H. While. Car, dumping, J. H. R. Talley.	352,356 352,408 352,410 352,458 352,225 362,239 360,545 352,349 352,364 352,3447 352,147 352,147 352,214 352,448
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	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrell. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, Ink, F. W. Parsons. Car doors, laten lock for, C. H. White. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carpet tack tool, M. S. Lantz. Carriage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham. Cattle pricker belt, J. M. Markham.	\$52,356 \$52,103 \$52,453 \$52,255 \$52,225 \$52,229 \$62,239 \$62,347 \$52,347 \$52,268 \$52,147 \$52,268 \$52,127 \$52,468 \$52,476 \$52,476 \$52,477 \$52,477 \$52,477 \$52,477 \$52,337 \$52,337 \$52,337 \$52,337 \$52,337 \$52,335
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrell. Car coupling, M. M. Pittman. Car coupling ink, F. W. Parsons. Car doors, laten lock for, C. tt. white. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Car starter, G. B. Haines. Carriage, wheeled, A. Dickinson. Case. See Planc case. Ribbon case. Caster, Terrill & Simonson Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham. Centering tool, J. N. Waite.	\$52,356 \$52,103 \$52,453 \$52,255 \$52,225 \$52,229 \$62,239 \$62,347 \$52,347 \$52,268 \$52,147 \$52,268 \$52,127 \$52,468 \$52,476 \$52,476 \$52,477 \$52,477 \$52,477 \$52,477 \$52,337 \$52,337 \$52,337 \$52,337 \$52,337 \$52,335
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrell. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car doors, laten lock for, C. tt. whire. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Cartiage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham. Cattle pricker belt, J. M. Markham. Centering tool, J. N. Waite. Chair. See Barber's chair.	\$52,356 \$52,103 \$52,110 \$52,453 \$52,255 \$52,223 \$62,223 \$62,239 \$62,347 \$52,349 \$52,347 \$52,268 \$52,147 \$52,268 \$52,127 \$52,447 \$52,337 \$52,447 \$52,337 \$52,355 \$52,355 \$52,355 \$52,355 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417 \$52,417
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve Car coupling, J. W. Harrelt Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa Car doors, laten lock for, C. H. While. Car, dumping, J. H. R. Talley Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car starter, G. B. Haines	\$52,356 \$52,103 \$52,453 \$52,255 \$52,223 \$52,223 \$52,245 \$52,245 \$52,349 \$52,349 \$52,349 \$52,349 \$52,349 \$52,268 \$52,147 \$52,241 \$52,416 \$52,416 \$52,417 \$52,416 \$52,417 \$52,416 \$52,417 \$52,416 \$52,417 \$52,41
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrelland. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car doors, laten lock for, C. tt. white. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carpet tack tool, M. S. Lantz. Carriage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Caster, Terrill & Simonson. Caster, Terrill & Simonson. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham. Cattle pricker belt, J. M. Markham. Centering tool, J. N. Waite. Chair. See Barber's chair. Cheese knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S.	\$52,356 \$52,103 \$52,110 \$52,453 \$52,2453 \$52,225 \$52,229 \$52,264 \$52,344 \$52,347 \$52,268 \$52,127 \$52,486 \$52,147 \$52,487 \$52,487 \$52,487 \$52,487 \$52,385 \$52,169 \$52,476 \$5
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve Car coupling, J. W. Harrelt Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa Car doors, laten lock for, C. H. while. Car, dumping, J. H. R. Talley Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines	\$22,356 \$52,108 \$52,108 \$52,453 \$52,255 \$52,239 \$52,239 \$52,245 \$52,246 \$52,247 \$52,476 \$52,47
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly Car coupling, G. S. Gildersleeve Car coupling, J. W. Harrell Car coupling, M. M. Pittman Car coupling, M. M. Requa Car coupling, M. M. Requa Car coupling, Ink, F. W. Parsons Car doors, laten lock for, C. tt. white Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car seat, reversible, J. M. Sauder Car seat, reversible, J. M. Sauder Carpet tack tool, M. S. Lantz Carpet tack tool, M. S. Lantz Carliage, wheeled, A. Dickinson Case. See Plano case. Ribbon case. Caster, Terrill & Simonson Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham Centering tool, J. N. Waite Chair. See Barber's chair. Cheese knife, J. Buchholz Chute, coal distributing, C. M. O'Donovan Cigar box, D. E. Powers Cigar bunching machines, feeding device for, S. A. Shepard Clamp. See Floor clamp.	\$22,356 \$52,108 \$52,108 \$52,453 \$52,255 \$52,239 \$52,239 \$52,245 \$52,246 \$52,247 \$52,476 \$52,47
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrell. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car doors, laten lock for, C. H. White. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carset, Teversible, J. M. Sauder. Carriage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham Centering tool, J. N. Waite. Chair. See Barber's chair. Cheses knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner.	\$52,356 \$52,403 \$52,110 \$52,453 \$52,2453 \$52,225 \$52,225 \$52,225 \$52,225 \$52,247 \$52,349 \$52,347 \$52,245 \$52,247 \$52,245 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,127 \$52,268 \$52,268 \$52,268 \$52,276 \$52,268 \$52,276 \$5
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car part. H. Dinner Car coupling, G. S. Gildersleeve Car coupling, G. S. Gildersleeve Car coupling, M. M. Pittman Car coupling, M. M. Pittman Car coupling, M. M. Requa Car coupling link, F. W. Parsons Car doors, laten lock for, C. tt. white Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car starter, G. B. Haines	\$52,356 \$52,103 \$52,153 \$52,215 \$52,2453 \$52,2453 \$52,2453 \$52,2239 \$52,2464 \$52,2464 \$52,346 \$52,248 \$52,248 \$52,248 \$52,246 \$52,476 \$52,477 \$52,377 \$52,347 \$52,347 \$52,356 \$52,25
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, G. S. Gildersleeve. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, Ink, F. W. Parsons. Car doors, laten lock for, C. tt. white. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carset, Terrill & Simonson. Case. See Piano case. Ribbon case. Casting compound insots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham Centering tool, J. N. Waite. Chair. See Barber's chair. Cheese knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar bunching machines, feeding device for, S. A. Shepard. Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner. Clock, L. Feuerstein. Clock, secondary electric, J. F. Hedge, Jr. Clock striking mechanism, G. W. Burgess.	\$52,356 \$52,103 \$52,153 \$52,215 \$52,2453 \$52,2453 \$52,2453 \$52,2239 \$52,2464 \$52,2464 \$52,346 \$52,248 \$52,248 \$52,248 \$52,246 \$52,476 \$52,477 \$52,377 \$52,347 \$52,347 \$52,356 \$52,25
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrell. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, I. H. R. Talley. Car, dumping, J. H. R. Talley. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carpet tack tool, M. S. Lantz. Carriage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham. Centering tool, J. N. Waite. Chair. See Barber's chair. Chese knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner. Clock, L. Feuerstein. Clock, Seeondary electric, J. F. Hedge, Jr. Clock striking mechanism, G. W. Burgess.	\$52,356 \$52,103 \$52,453 \$52,2453 \$52,2453 \$52,239 \$64,404 \$52,364 \$52,239 \$64,404 \$52,364 \$52,246 \$52,246 \$52,246 \$52,246 \$52,416 \$52,416 \$52,416 \$52,416 \$52,416 \$52,416 \$52,116 \$52,416 \$
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly Car coupling, G. S. Gildersleeve Car coupling, J. W. Harrell Car coupling, M. M. Pittman Car coupling, M. M. Requa Car coupling, M. M. Requa Car coupling, Ink, F. W. Parsons Car doors, laten lock for, C. tt. white Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car seat, reversible, J. M. Sauder Car seat, reversible, J. M. Sauder Carriage, wheeled, A. Dickinson Case. See Piano case. Ribbon case. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham Centering tool, J. N. Waite Chair. See Barber's chair. Chease knife, J. Buchholz Chute, coal distributing, C. M. O'Donovan Cigar box, D. E. Powers Cigar bunching machines, feeding device for, S. A. Shepard Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner. Clock, L. Feuerstein Clock, secondary electric, J. F. Hedge, Jr Clock striking mechanism, G. W. Burgess Coffee or tea can, W. A. Krag Collar button and necktie fastener, combined, J.	\$52,356 \$52,403 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2453 \$52,223 \$62,223 \$62,234 \$62,347 \$52,349 \$52,268 \$52,127 \$52,486 \$52,476 \$52,376
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, J. W. Harrell. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, I. H. R. Talley. Car, dumping, J. H. R. Talley. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Cartage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham. Cattle pricker belt, J. M. Markham. Chair. See Barber's chair. Cheese knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S. A. Shepard. Clock, seeondary electric, J. F. Hedge, Jr. Clock, L. Feuerstein. Clock, L. Feuerstein. Clock, See Dry closet. Coffee or tea can, W. A. Krag. Collar button and necktie fastener, combined, J. B. Cornish.	\$22,356 \$32,408 \$52,110 \$52,453 \$352,225 \$352,239 \$352,246 \$352,239 \$352,349 \$52,248 \$52,248 \$52,248 \$52,248 \$52,421 \$
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, G. S. Gildersleeve. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling link, F. W. Parsons. Car doors, laten lock for, C. t. white. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carpet tack tool, M. S. Lantz. Carpet tack tool, M. S. Lantz. Carriage, wheeled, A. Dickinson. Case. See Piano case. Ribbon case. Caster, Terrill & Simonson. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham. Centering tool, J. N. Waite. Chair. See Barber's chair. Cheese knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner. Clock, L. Feuerstein. Clock, secondary electric, J. F. Hedge, Jr. Clock striking mechanism, G. W. Burgess. Closet. See Dry closet. Coffee or tea can, W. A. Krag. Collars to millitary blouses, making and attaching, J. Judge.	\$52,356 \$52,403 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2239 \$52,264 \$52,239 \$52,364 \$52,364 \$52,268 \$52,268 \$52,268 \$52,268 \$52,268 \$52,466 \$52,466 \$52,361 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367 \$52,367
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, G. S. Gildersleeve. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, Ink, F. W. Parsons. Car doors, laten lock for, C. H. White. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carset, Teversible, J. M. Sauder. Carstarter, G. B. Haines. Caster, Terrill & Simonson. Case. See Piano case. Ribbon case. Caster, Terrill & Simonson. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham Centering tool, J. N. Waite. Chair. See Barber's chair. Cheses knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner. Clock, L. Feuerstein. Clock, secondary electric, J. F. Hedge, Jr. Clock striking mechanism, G. W. Burgess. Closet. See Dry closet. Coffee or tea can, W. A. Krag. Collar button and necktie fastener, combined, J. B. Cornish. Collars to military blouses, making and attaching, J. Judge. Commode, P. Bardon.	\$22,356 \$52,108 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2453 \$52,2453 \$52,2453 \$52,2453 \$52,344 \$52,246 \$52,306 \$52,30
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly Car coupling, G. S. Gildersleeve Car coupling, G. S. Gildersleeve Car coupling, M. M. Pittman Car coupling, M. M. Pittman Car coupling, M. M. Requa Car coupling link, F. W. Parsons Car doors, laten lock lor, C. t. white Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Carstarter, G. B. Haines	\$52,356 \$52,103 \$52,153 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2239 \$52,2464 \$362,147 \$52,2453 \$52,2464 \$362,147 \$52,2464 \$362,206 \$52,476 \$362,416 \$362,306 \$362,306 \$362,306 \$362,306 \$362,307 \$362,335 \$362,417 \$362,336 \$362,306
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner	\$22,356 \$52,108 \$52,110 \$52,453 \$52,255 \$52,239 \$52,239 \$52,245 \$52,236 \$52,236 \$52,246 \$52,247 \$52,486 \$52,248 \$52,246 \$52,247 \$52,416 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,306 \$52,306 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,306 \$52,406 \$52,406 \$52,406 \$52,406 \$52,406 \$52,306 \$52,306 \$52,406 \$52,406 \$52,406 \$52,406 \$52,306 \$52,406 \$52,306 \$52
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly Car coupling, G. S. Gildersleeve Car coupling, G. S. Gildersleeve Car coupling, M. M. Pittman Car coupling, M. M. Pittman Car coupling, M. M. Requa Car coupling, Ilmk, F. W. Parsons Car doors, laten lock for, C. tt. white Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Carstarter, G. B. Haines	\$52,356 \$52,103 \$52,153 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2239 \$52,2454 \$52,234 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,466 \$52,477 \$52,337 \$52,467 \$52,347 \$52,347 \$52,357 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367 \$52,467 \$52,367
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett; Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, G. S. Gildersleeve. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling link, F. W. Parsons. Car doors, laten lock lor, C. H. White. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carpet tack tool, M. S. Lantz. Carriage, wheeled, A. Dickinson. Case. See Plano case. Ribbon case. Casten, Terrill & Simonson. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham. Cattle pricker belt, J. M. Markham. Centering tool, J. N. Waite. Chair. See Barber's chair. Cheese knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cleaner. See Boiler cleaner Gun cleaner. Clock, L. Feuerstein. Clock striking mechanism, G. W. Burgess. Clockt striking mechanism, G. W. Burgess. Collars to military blouses, making and attaching, J. Judge. Commode, P. Bardon. Condiment holder, individual, G. Dowkontt. Cooking vessel, steam, C. C. Danner. Qorset and skirt supporter, combined, J. Stone. Cotton picker, S. H. Frist.	\$52,356 \$52,103 \$52,153 \$52,110 \$52,453 \$52,2453 \$52,2239 \$52,2454 \$52,2464 \$52,2464 \$52,2464 \$52,2464 \$52,476 \$52,476 \$52,476 \$52,476 \$52,476 \$52,476 \$52,476 \$52,276
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett Cap, I. H. Dinner Car brake, J. S. Connelly Car coupling, G. S. Gildersleeve Car coupling, G. S. Gildersleeve Car coupling, M. M. Pittman Car coupling, M. M. Pittman Car coupling, M. M. Requa Car coupling, Ilmk, F. W. Parsons Car doors, laten lock for, C. H. White Car, dumping, J. H. R. Talley Car seat, reversible, J. M. Sauder Car, dumping, J. H. R. Talley Car starter, G. B. Haines	\$52,356 \$52,103 \$52,153 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2453 \$52,2454 \$52,2454 \$52,2454 \$52,2454 \$52,2454 \$52,2465 \$52,2465 \$52,2465 \$52,2465 \$52,2465 \$52,2466
	Calculator, G. H. Harris. Can. See Coffee or tea can. Cannon, revolving pneumatic, W. A. Bartlett. Cap, I. H. Dinner. Car brake, J. S. Connelly. Car coupling, G. S. Gildersleeve. Car coupling, G. S. Gildersleeve. Car coupling, M. M. Pittman. Car coupling, M. M. Pittman. Car coupling, M. M. Requa. Car coupling, M. M. Requa. Car coupling, Ink, F. W. Parsons. Car doors, laten lock for, C. H. White. Car, dumping, J. H. R. Talley. Car seat, reversible, J. M. Sauder. Car starter, G. B. Haines. Carset, Teversible, J. M. Sauder. Carstarter, G. B. Haines. Caster, Terrill & Simonson. Case. See Piano case. Ribbon case. Caster, Terrill & Simonson. Casting compound ingots, mould for, A. J. Lustig Casting machine, stereotype, J. E. Caps. Cattle from goring, device for preventing, J. M. Markham Cattle pricker belt, J. M. Markham Centering tool, J. N. Waite. Chair. See Barber's chair. Cheses knife, J. Buchholz. Chute, coal distributing, C. M. O'Donovan. Cigar box, D. E. Powers. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cigar bunching machines, feeding device for, S. A. Shepard. Cigar seller, automatic, C. O. Cole. Clamp. See Floor clamp. Cigar bunching mechanism, G. W. Burgess. Clock, L. Feuerstein. Clock, L. Feuerstein. Clock, L. Feuerstein. Colok striking mechanism, G. W. Burgess. Closet. See Dry closet. Coffee or tea can, W. A. Krag. Collar button and necktie fastener, combined, J. B. Cornish. Collars to military blouses, making and attaching, J. Judge. Commode, P. Bardon. Condiment holder, individual, G. Dowkontt. Cooking vessel, steam, C. C. Danner. Cooking vessel, steam, C. C. Danner. Cotton picker, S. H. Frist. Cotton seed reducing and separating machine, D. J. Ames. Coupling. See Car coupling. Harness coupling.	\$52,356 \$52,103 \$52,153 \$52,110 \$52,453 \$52,2453 \$52,2453 \$52,2453 \$52,2454 \$32,147 \$52,2454 \$52,2464 \$52,2464 \$52,2464 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,247 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,246 \$52,256 \$52,266