using heat? A. By a heat werging on redness. There is no other rapid way of removing the gas. It might be done slowly hy absorption hy chemicals, such as slaked American bole, a little wax and parchment size is used. lime, caustic soda, etc. 5. About how long will it take The latter is made by boiling parchment scraps in water. the charcoal to absorb the gas, and how long to free it We refer you to "Workshop Receipts," first series, of the gas? A. A few seconds to one minute.

(682) J. P. writes: You gave a recipe for artificial honey in Scr. Am., December 8, 1888. page 363, query 26, in that you say 80 grains cream tar tar. Please state how many grains to a pound or to an ounce of 16 ounces to the pound? Also, will it keep any length of time with the whites of eggs in it? A. There are 7,000 grains in a pound avoirdupois, or 437% nel is through this shelving rock which readily disgrains in an ounce. It will not keep well if made with solves when exposed to the atmosphere, and has so whites of eggs.

(633) J. E. O. writes: Physiologists tell ns that an image when received on the retina of the eye is inverted; but few give any satisfactory explanation why we see all images righted. It is claimed by some that the hrain receives the image inverted, and our judgment rights it. Will you please give us your opinion? A. The connection between the brain and the outside world cannot be traced. A specific image produced on the retina affects the brain with the sensation of sight; the inversion of the image is immaterial to the question, as the question transcends mechanics or physics.

(634) J. C. M. writes: An aquarium of mine, made of marble and glass, leaks at the joints. Please tell me in the Notes and Queries column of the SCIENTIFIC AMEBICAN how to make a cement to mend it with? A. Try litharge and glycerine, or melt in Burgundy pitch and gutta percha cement (see Queries 630 and 64?) with a hot iron when the glass and marble are perfectly dry.

(635) F. S. W. asks: How many cubic feet of ordinary illuminating gas are required to equal one ton of ordinary Pennsylvania pea coal for steam, when burned under a boiler? What effect has a gas jet on the iron of the boiler compared with a coal fire? A. 50 to 70 lb. of coal are considered equal to 1,000 cubic feet of gas in heating power. The gas may be burned from long pipes with numerous perforations. preferably arranged with air injector burners, as the least production of lamp black indicates inefficiency. For cost and exact details consult an engineer.

(636) J. C. asks: 1. How to make paper out of rags? A. For paper making we refer you to Davis' work on paper making. \$6; Cross, Bevan and Joynson on paper making. \$4. 2. Do the clouds move. or is it the earth turning on its axis that gives them the appearance of moving? A. The clouds move, dissolve, and reform again continually; their motion aud changes are real.

(637) F. A. asks how wood can be electro-plated with copper? The object I desire to plate is the ebony handle of a surgical knife. A. First rub club here, at which it was stated the park at Versailles. the wood with hot paraffine; coat it with a thin coating France, was the largest artificial park in the world. A of plumbago, applied with a brush, and then submit it few of us bad some doubts of it, and I write to you as to the regular electro-plating process.

(638) E. W. M. writes: In testing gas meter, there are five cubic feet pass through the test not remarkable for size, but rather for its water works meter, while six cubic feet pass through the meter to be tested; is the meter to be tested 10% per cent fast or of the world, with their acreage: 20 per cent fast, or in other words, what is the divisor -five or six? A. The meter is 20 per cent fast. If gas were one dollar a thousand, you would by such a meter pay \$1.20 for \$1 worth of gas. The correct figure always should represent 100 per cent.

(639) L. S. M. writes: Can you inform meof any acid or other substance which will rapidly putrefyand liquefy the flesh of crustaceans so that it may be removed through a small aperture, and which will not affect the shell in any way? The intention is to preserve the shell intact in its natural color, and I am looking for someway to remove the flesh without disintegrating the shell? A. Try canstic soda solution; you must experiment, using different strengths of solution and various temperatures. You may have trouble from the disintegration of the ligaments connecting the segments. You might try the old receipt of placing them near ant hills, in order that the ants may clean them.

(640) E. LeR. S. asks: In speaking of a mile on land between two points, is there any differ ence between the English and American mile? A There is no difference; the distance is 5,280 feet.

(641) W. McB.—If no heat is to be applied to your glass-lined acid vat, we would recommend some such cement as hicycle tire cement. The following is recommended for making wood watertight and proof against sulphate of copper, but not against cyan-

Burgundy pitch..... ..... 1,500 parts. Old gutta percha in fine shreds..... 250 Finely powdered pumice stone.... 750 "

First melt the gutta percha and mix with the pumice stone and then add the pitch. Apply hot, using a soldering iron. For resisting heat and acids the following is

Tallow...... 2 Resin ..... 2 "

(642) L. K. S. asks for the names and price of the most complete work on chemistry of glass. Also name of firm supplying such books? A. Wecan snpplyyou with Feuchtwanger, Water Glass, \$5. Shenstone on Glass Blowing, 80 cents. Powell, Chance and Harris on Glass Making, \$1.50. The first named is devoted to silicate of soda, and not to glass in general.

(643) J. L. asks for gold size for gilding on wood so as to obtain a bright finish, resembling hurnished finish. A. Waterproof gold size is prepared from half a pound of linseed oil with two ounces of gum animi, the latter is reduced to powder and gradually added to the oil while being heated in a flask, stirring after every addition until the whole is dissolved: the mixture is boiled until a small quantity, when taken out, 

coal of the gas, and is there any other way besides thesame time be diluted with oil of turpentine, so as cheapest. A long-stroke crank connection with engine to make it work freely with the pencil. This does not give a burnished finish. For burnishing a mixture of which we can supply free hy mail for \$2, for a very elaborate account of gilding operations.

> (644) T. A. McC. writes: In a tunnel 1,600 feet long will a ten foot pressure of water force outearth and rock that readily dissolves when exposed to the atmosphere, in a few weeks? The tunnel has a total fall of some two feet. A thousand feet of the tnn caved in that it will not permit the water to pass through. Tunnel is 6×6 feet. By means of a flume we can pour the water in some ten feet above the floor of the tunnel, and we want to know if the water will force its way through and wash out the debris? A. If you can supply a full stream of water at 10 feet head, you can wash the dirt and gravel through the tunnel, if not entirely obstructed. After an opening is obtained, a volume of water will be required to give a velocity of 4 feet per second through the obstructed part for carrying forward the broken stone which would be deposited in the unobstructed part of the tunnel. To remove this, a volume equal to the whole area of the tunnel, or 144 cubic feet of water per second would be required to entirely clear it from sand, gravel and small broken stones. The large rocks would require other means for removal

(645) W. W. T. writes: I have made a glycerine barometer, nsing a pint tin can with two necks in one of which I insert abarometer tube open at both ends, bore 0.25 inch, and in the othera thermometer to make corrections for temperature. All fittings and seams are air tight. While it very often agrees with the signal service barometrical readings, sometimes there is a difference, for which I can find no cause. Please tell me the reason. A. The barometer tube should be closed at the upper end, and should be of above the fluid. The liquid in the tank should be in some kind of communication with the air. You may insert a tube through the cover of the tin can and tie an India rubber balloon over it., In the Scientific American of December 25, 1886, you will find described a glycerine barometer.

(646) B. O. L. writes: When the phonograph is talking can it be heard all over the room by the entire andience if the voice talked into it was loud enough, or must a person have ear to receiver in order to hear anything? Can only one hear at a time? A. An ear tube is required. If several are provided, as many persons can listen as there are tubes. It cannot be heard all over the room.

(647) H. S. H. writes: There has been ome discussion on the subject of "parks," in a literary the surest way to settle the question. If Versailles has not the largest park, can you tell me where it is and how and buildings. The following are representative parks

Boulogne ...... 2,500 Vincennes...... 2.275 Windsor...... 3,800 Fairmount...... 2,740

(648) C. F. P. asks how to test the purity of drinking water with permanganate of potasb. wish to test an open well for any organic matter which it may contain. A. Dissolve 2 grains permanganate of potash in 10% onnces distilled water. 10 drops of this represent 1-1000 grain of oxygen. Add it to the water drop by drop until a faint pink color is produced which is permanent. The number of drops per gallon represents the amount of oxygen required to oxidize the organic matter. It should not exceed 0.2 grain per gallon. The test should be executed by a chemist, and at best is a mere approximation and may condemn a water that is perfectly healthy. It has only confirmatory value.

(649) H. McC. writes: An advantage claimed for Mercator's projection reads. "The true shapes of continents are given, although expanded toward the poles. If the last statement is true, the first (in my eyes) cannot be true. Kindly explain. A. It is not strictly true. As the poles are approached the lateral distances become magnified, so that only a general accordance of shape is preserved.

(650) G. F. R. writes: Will you kindly let me know through your paper whether theoretically it would weaken the current passing through a conductor if a magnetic needle is placed under it? A. It would not.

## Replies to Enquiries.

The following replies relate to enquiries recently published in SCIENTIFIC AMERICAN, and to the numbers therein given:

(403) T. H. DeS.—Radiator, Coal, etc. -1. A steam radiator is more efficient at the higher pressure by the difference in the temperature of the steam at both pressures. 2. The Jellico mountain coal ordinarily has 60 parts fixed carbon, 36 parts volatile matter or gas=to 96 parts combustible in 100. The cannel coal from the Jellico upper bed has 35 parts fixed carbon, 50 parts volatile matter=85 parts combustible in 100. We have no record of any true cannel coal in Alabama. The Cahaba and Corons beds have from 50 to 55 parts fixed carbon to 41 parts volatile matter; or 91 to 96 parts combustible in 100. The nearest to a semi-bitnminous or semianthracite are: The Deer Creek mines, which have 68 parts fixed carbon and 22 parts volatile, or 90 combnstible in 100. The steaming qualities of these coals as is somewhat thicker than tar, and the whole is strained compared with Cumberland, 100, are as follows: Jel-through a coarse cloth. When used, it must be ground lico 90.7, Cahaba 93.2, Cotona 93.0, Deer Creek 89. 3.

by belt is much used and preferred for constant and heavy work, as for very deep wells, 4. Bones that have grease or carbonaceous matter in them will enrich ordinary coal gas and add to its volume. Gas made from grease or oil is heavier than ordinary coal gas, containing more carbon.

Books or other publications referred to above can, in most cases, be promptly obtained through the SCIENTIFIC AMERICAN office, Munn & Co., 361 Broadway, New York.

## TO INVENTORS.

An experience of forty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess un equaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of natents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office Scientific American, 361 Broadway. New York.

## INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

March 26, 1889,

## AND EACH BEARING THAT DATE.

(See note at end of list about copies of these patents.)

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E	Amalgamator, N. L. Raber	400,114	F
ŧ	Ammonium nitrate, making, C. N. Hake		F
ŧ	Animal detaching device, I. J. Kubatz		F
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j	Axle box, car. S. J. Austin		Fi
ŝ	Bag holder, E. W. Clark	400,191	Fi
į	Bag lock, J. Hammesfahr	400,334	H.
į	Bags, mouth piece for, G. W. Dean	400,194	F,
1	Barrel washing machine, H. E. Klamt	400,346	F
1	Baseball bat, C. N. Morris	400,354	F
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	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper. Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, roof connection for railway, Cole & Parno. Cars, side bearing for railway, J. J. Mann. Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for pro-	400,077 400,241 400,096 400,199 400,302 400,302 400,302 400,302 400,305 400,305 400,360 400,196 400,196 400,196 400,196 400,406 400,406 400,406	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper. Carwheel, J. W. Cooper. Cars automatic air supply for propelling, J. T. Clark Cars, automatic air supply for propelling, J. T. Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow Cars, soft bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartidge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson.	400,077 400,246 400,199 400,409 400,302 400,302 400,303 400,305 400,336 400,336 400,336 400,133 400,134 400,165 400,406 400,033 400,033	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow. Cars, coof connection for railway, Cole & Parno Cars, side bearing for railway, J. J. Mann Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T.	400,077 400,246 400,199 400,409 400,307 400,089 400,302 400,302 400,329 400,329 400,336 400,336 400,134 400,165 400,247 400,033 400,248	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper. Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, aystem for heating, J. F. McElroy. Carpting, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chaira, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White.	400,077 400,241 400,096 400,199 400,302 400,302 400,302 400,329 400,336 400,360 400,360 400,136 400,136 400,146 400,247 400,033 400,247	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow. Cars, coof connection for railway, Cole & Parno. Cars, side bearing for railway, J. J. Mann Cars, side bearing for railway, J. J. Mann Cars, aystem for heating, J. F. McElroy Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chaira, etc., adjustable leg attachment for, H. Alliger Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White.	400,077 400,246 400,199 400,409 400,307 400,089 400,302 400,032 400,302 400,302 400,303 400,134 400,134 400,134 400,134 400,247 400,033 400,247	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow. Cars, roof connection for railway, Cole & Parno Cars, side bearing for railway, J. J. Mann Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, G. F. Kolb. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger Characters in their reverse, apparatus for producing, C. A. Trompson Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Hass. Check hook, C. H. Mors.	400,077 400,241 400,096 400,199 400,302 400,302 400,302 400,303 400,363 400,364 400,364 400,134 400,164 400,247 400,033 400,247 400,033 400,247 400,034 400,151 400,354 400,354 400,354 400,404	H H H H H I I I I I I I I I I I I I I I
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Car wheel, J. W. Cooper. Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chaira, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Hass. Check hook, C. H. Mors. Chevron, F. S. Johnston.	400,077 400,241 400,098 400,199 400,302 400,302 400,302 400,303 400,360 400,360 400,360 400,136 400,136 400,140 400,247 400,033 400,247 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper. Carwheel, J. W. Cooper. Carwheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow Cars, end sill for railway, J. T. Goodfellow Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, system for heating, J. F. McElroy. Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Hass. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett	400,077 400,246 400,199 400,309 400,302 400,302 400,303 400,336 400,336 400,360 400,134 400,165 400,033 400,247 400,033 400,247 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033 400,033	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann Cars, side bearing for railway, J. J. Mann Cars, stake pocket for platform, C. H. Dunham Cars, aystem for heating, J. F. McElroy Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, G. F. Kolb. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger Charsacters in their reverse, apparatus for producing, C. A. Thompson Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Haas. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett Cigar wrappers or binders, machine for cutting	400,077 400,241 400,096 400,199 400,302 400,302 400,302 400,303 400,329 400,353 400,354 400,133 400,134 400,160 400,247 400,033 400,247 400,033 400,247 400,033 400,151 400,406 400,351 400,406 400,40	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper. Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, device for unloading, J. T. Goodfellow. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, aystem for heating, J. F. McErroy. Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chaira, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Hass. Check hook, S. H. Hass. Check hook, S. H. Hass. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett Cigar wrappers or binders, machine for cutting out, J. R. Williams.	400,077 400,246 400,199 400,409 400,307 400,089 400,302 400,302 400,303 400,303 400,304 400,306 400,360 400,165 400,406 400,247 400,033 400,268 400,332 400,332 400,151 400,153	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Car wheel, J. W. Cooper. Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Cartiage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Hass. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett Clamp, G. F. Brott.	400,077 400,246 400,199 400,409 400,307 400,089 400,302 400,302 400,303 400,303 400,304 400,306 400,360 400,165 400,406 400,247 400,033 400,268 400,332 400,332 400,151 400,153	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow Cars, end sill for railway, J. T. Goodfellow Cars, side bearing for railway, J. J. Mann Cars, side bearing for railway, J. J. Mann Cars, system for heating, J. F. McElroy Carpet lining, C. H. Cole Carriage spring, B. M. Soule Cartriage primer, T. R. Bayliss Cash indicator, A. Pearson Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger Characters in their reverse, apparatus for producing, C. A. Thompson Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Hass Check hook, C. H. Mors Chevron, F. S. Johnston Churn closure, Le Suer & Bassett Cigar wrappers or binders, machine for cutting out, J. R. Williams. Clamp, G. F. Brott. Clasp. See Spring clasp.	400,077 400,246 400,199 400,409 400,307 400,089 400,302 400,302 400,303 400,306 400,306 400,360 400,165 400,406 400,247 400,033 400,268 400,332 400,332 400,153 400,153	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett Cigar wrappers or binders, machine for cutting out, J. R. Williams. Clamp, G. F. Brott. Clasp. See Spring clasp. Cleaner. See Window cleaner.	400,077 400,246 400,199 400,409 400,307 400,089 400,302 400,302 400,302 400,303 400,304 400,305 400,306 400,306 400,134 400,165 400,407 400,033 400,247 400,033 400,151 400,153 400,296	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann Cars, side bearing for railway, J. J. Mann Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Haas. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Baseett Cligar wrappers or binders, machine for cutting out, J. R. Williams. Clamp, G. F. Brott. Clasp. See Spring clasp. Cleaner. See Window cleaner.	400,077 400,241 400,096 400,199 400,302 400,302 400,302 400,303 400,329 400,353 400,364 400,364 400,133 400,134 400,164 400,406 400,247 400,406 400,360 400,360 400,360 400,360 400,360 400,361 400,406 400,406 400,406 400,406 400,406 400,406 400,406 400,406 400,360 400,406 400,360 400,36	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant Cars, end sill for railway, J. T. Goodfellow. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann Cars, side bearing for railway, J. J. Mann Cars, stake pocket for platform, C. H. Dunham. Cars, aystem for heating, J. F. McElroy Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss Cash indicator, G. F. Kolb. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, S. H. Haas. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Baseett Cligar wrappers or binders, machine for cutting out, J. R. Williams. Clamp, G. F. Brott. Clasp. See Spring clasp. Cleaner. See Window cleaner.	400,077 400,241 400,096 400,199 400,302 400,302 400,302 400,303 400,329 400,353 400,364 400,364 400,133 400,134 400,164 400,406 400,247 400,406 400,360 400,360 400,360 400,360 400,360 400,361 400,406 400,406 400,406 400,406 400,406 400,406 400,406 400,406 400,360 400,406 400,360 400,36	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Carriage spring, B. M. Soule. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chairs, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett Cigar wrappers or binders, machine for cutting out, J. R. Williams. Clamp, G. F. Brott. Clasp. See Spring clasp. Cleaner. See Window cleaner. Clutch, differential speed, J. Brooks. Clutch, friction, H. W. Hili. Coccoanut, preserving, W. P. Clotworthy.	400,077 400,246 400,199 400,409 400,302 400,302 400,302 400,302 400,303 400,303 400,303 400,134 400,134 400,134 400,134 400,134 400,134 400,247 400,033 400,268 400,403 400,218 400,218 400,218 400,218 400,218 400,218 400,238	
	Car lock, freight, J. Haish Car seat and indicator, adjustable, O. E. Michaud Car seat, railway, E. Enequist Car starter, M. E. Farnham. Car, steam hand, Morrissey & Doyle Carwheel, J. W. Cooper. Car wheel tires, fastening device for, J. Kennedy. Cars, automatic air supply for propelling, J. T. Clark Cars, device for unloading, J. L. Bryant. Cars, device for unloading, J. L. Bryant. Cars, end sill for railway, J. T. Goodfellow. Cars, end sill for railway, J. T. Goodfellow. Cars, side bearing for railway, J. J. Mann. Cars, side bearing for railway, J. J. Mann. Cars, aystem for heating, J. F. McElroy. Carpet lining, C. H. Cole. Cartridge primer, T. R. Bayliss. Cash indicator, G. F. Kolb. Cash indicator, A. Pearson. Chair. See Folding chair. Chaira, etc., adjustable leg attachment for, H. Alliger. Characters in their reverse, apparatus for producing, C. A. Thompson. Charts, mounting and boxing anatomical, J. T. White. Check hook, C. H. Mors. Chevron, F. S. Johnston. Churn closure, Le Suer & Bassett Cigar wrappers or binders, machine for cutting out, J. R. Williams. Clamp, G. F. Brott. Clasp. See Spring clasp. Cleaner. See Window cleaner. Clutch, differential speed, J. Brooks.	400,077 400,246 400,199 400,409 400,302 400,302 400,302 400,302 400,303 400,303 400,303 400,134 400,134 400,134 400,134 400,134 400,134 400,247 400,033 400,268 400,403 400,218 400,218 400,218 400,218 400,218 400,218 400,238	

1	Compass, ship's, L. Sirielx (r)	10,991
	Concentrator, J. A. Johnson	400,216
١	Conducting pipe, G. C. Smith	
ı	Conduits, constructing underground, Cranmer &	
ı	Arnold	400,309
1	coupling.	
1	Crusher. See Rock asher.	400 244
1	Cuffholder, G. R. G. Jones	
	Culinary apparatus, A. O. Schuekman	400.255
.	Cultivator, R. H. Avery	
	Curtain pole ring, C. W. Lawrence	
۱.	Cutter. See Feed cutter.	400 371
	Cutter head, C. Sullivan  Deskand seat, school, G. Hamel	400,078
	Desk and typewriter cabinet, combined, C. N.	1001010
١	Leonard	
١	Detachable handle, D. Philbrick	
	Door spring, Bender & Stevens	
١.	Dress form, F. W. Brown	400.297
1	Dust collector, E. Bretney	400,391
. ]	Egg count register, A. F. Harrison	400,082
.	Ejector and injector, combined, P. P. Hogne  Elastic strap, L. Stein	
1	Electric distributing system, detecting grounds	
	in an, E. M. Bentley	
	Electric distribution by storage batteries, S. C. C. Currie	
1	Electric generator, magneto, N. B. Ginochio	400,827
1	Electric lighting system, W. L. Horne	400,214
1	Electric machine, dynamo, W. L. Silvey  Electric motor, Davis & Westervelt	
1	Electric motor regulator, R. S. Dobbie	
1	Electric motors, friction gear for, C. J. Van De-	
-	poele Engine. See Beating engine, Gas engine. Steam	400,274
	engine.	
	Extractor. See Fish hook extractor. Pen ex-	
	tractor. Faucet, measuring, E. S. Reed	400 961
۱.	Feed cutter, E. W. Ross	400,117
9	Feed trough, C. F. Harder	400,080
	Feedwater heater and purifier, C. E. Ferreira Fence, E. A. Welds	400,819
,	Fence, E. A. Weids	
	Fencing, E. Hawes	400,083
3	Fertilizer distributor, N. B. Spradley Filter beds, apparatus for accelerating the pass-	400,136
0	age of liquids through, W. D. Bohm	400,186
ı	Fire escape, E. Della	400,314
9	Fire kindler, M. Reilly Fireproof building, R. S. Critcheil Fish hook extractor, E. L. Post.	400,258
7	Fish hook extractor, E. L. Post	400,112
L,	Fish trap, J. E. Green	400,206
	Fluid meter, Westingbouse, Jr., & Dutton Fluid releaser, automatic, B. S. Molyneux	400,420
	Fly paper, package of, E. F. Baker	
١,	Folding chair. H. O'Hare	400,357
,	Folding chair, automatic, H. H. Blake Forging mechanism, F. W. Taylor	400,183
	Fuel feeding pipe, W. A. Wilcox.	400,280
)	Galvanic Dattery, A. Imschenetzky	App. mr.
	0 :	100,213
	Galvanic battery, C. E. Kammeyer	400,088
7	Galvanic battery, Liebert & Rosenthal	400, <b>08</b> 8 400,2.35 400,126
7	Galvanic battery, Liebect & Rosenthal	400, <b>08</b> 8 400,2.35 400,126 400,237
<b>7</b>	Galvanic battery, Liebert & Rosenthal	400,088 400,2:35 400,126 400,2:37 400,177
? 0 1	Galvanic battery, Liebert & Rosenthal	400,088 400,2:35 400,126 400,2:37 400,177 400,080
7 0 1 1	Galvanic battery, Liebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,068 400,2:35 400,126 400,2:37 400,177 400,060 400,168
7	Galvanic battery, Liebert & Rosenthal	400,068 400,2:35 400,126 400,2:37 400,177 400,060 400,168
7	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,088 400,235 400,126 400,237 400,177 400,060 400,168 400,169
7	Galvanic battery, Liebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,088 400,235 400,126 400,237 400,177 400,060 400,168 400,169
7	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,088 400,235 400,126 400,237 400,177 400,060 400,168 400,169 400,078
7 0 1 1 7 2 6	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,235 400,126 400,237 400,177 400,060 400,168 400,174 400,073 400,174 400,339
7 0 1 1 7 2 6	Galvanic battery, Liebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,235 400,126 400,237 400,177 400,093 400,168 400,174 400,374 400,389 400,174
7 0 1 1 7 2 6 9 7	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,123 400,1237 400,177 400,060 400,168 400,109 400,073 400,174 400,839 400,173 400,173 400,173
7 0 11726	Galvanic battery, Liebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,123 400,1237 400,177 400,060 400,168 400,109 400,073 400,174 400,839 400,173 400,173 400,173
7 0 11726	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,123 400,1237 400,177 400,060 400,168 400,109 400,073 400,174 400,839 400,173 400,173 400,173
7 0 11726	Galvanic battery, Liebert & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,093 400,168 400,169 400,174 400,839 400,173 400,163 400,163 400,163 400,163
7 0 11726 99709	Galvanic battery, Liebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,363 400,463 400,463
7 0 11726 99709	Galvanic battery, Liebert & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,236 400,236 400,237 400,177 400,060 400,168 400,169 400,174 400,839 400,173 400,267 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,61 400,61 400,61
7 0 1117266 999772	Galvanic battery, Liebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,236 400,237 400,177 400,060 400,168 400,169 400,174 400,839 400,173 400,267 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,436 400,61 400,61 400,61
7 0 1 1 1 1 7 2 6 6 9 9 7 7 9 9 9 7 7 2 2 3 8 9 7 7 2 8 9 7 7 2 8 9 7 7 7 8 9 7 7 7 8 9 7 7 7 8 9 7 7 7 8 9 7 7 7 7	Galvanic battery, I.iebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,236 400,237 400,177 400,060 400,168 400,169 400,174 400,839 400,173 400,267 400,633 400,416 400,634 400,416 400,634 400,131
7 0 1117266 999 5599 772388	Galvanic battery, Liebect & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,073 400,173 400,173 400,267 400,363 400,48
7 0 11 11 17 22 6 9 9 7 7 9 9 7 7 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Galvanic battery, I.iebert & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,060 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,211 400,211 400,211 400,211 400,221 400,221 400,221
7 0 111726 9977099 5999772388	Galvanic battery, I.iebert & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,177 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,267 400,261 400,261 400,261 400,264 400,264 400,392 400,392 400,403 400,40
7 0 111726 9977238 49668	Galvanic battery, I.iebect & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,263 400,131 400,264 400,211 400,282 400,389 400,482
7 0 1117.26 9977.238 499683	Galvanic battery, I.iebect & Rosenthal Galvanic battery, F. Shaw Game, mathematical, L. Martane Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,080 400,168 400,169 400,174 400,389 400,173 400,267 400,267 400,261 400,211 400,284 400,211 400,392 400,393 400,412 400,211 400,392 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412 400,393 400,412
7 0 1117266 99772388 499668371	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,001 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,267 400,261 400,261 400,261 400,261
7 0 1117266 9977099 599772388 49966837116	Galvanic battery, I.iebect & Rosenthal Galvanic battery, F. Shaw Game, mathematical, L. Martane Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,261 400,211 400,281 400,281 400,282 400,282 400,282 400,282 400,282
7 0 111726 997709 59972238 49668371699	Galvanic battery, I.iebect & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,073 400,173 400,173 400,267 400,267 400,261 400,091 400,261 400,091 400,282 400,492 400,282 400,492 400,282 400,282 400,282 400,283 400,282 400,283
7 0 1117266 9977099 599772388 49966837169997	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,060 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,267 400,261 400,211 400,281 400,282 400,283 400,183 400,183 400,183 400,183 400,183 400,211 400,284 400,284 400,284 400,285 400,285 400,285 400,285 400,286 400,28
7 0 1117266 9977099 599772388 49966837169997	Galvanic battery, I.iebect & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,080 400,168 400,169 400,174 400,389 400,173 400,267 400,267 400,261 400,211 400,392 400,211 400,392 400,284
7 0 111726 997709 59977238 49668371699779 12	Galvanic battery, I.iebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,003 400,168 400,169 400,174 400,267 400,173 400,267 400,26
7 0 111726 997709 59977238 499683716999729	Galvanic battery, I.iebert & Rosenthal Galvanic battery, F. Shaw Game, mathematical, L. Martane Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,267 400,261 400,211 400,261 400,281 400,282 400,483 400,173 400,284 400,284 400,284 400,284 400,284 400,284 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285
7 0 111726 997709 59977238 49668371699979	Galvanic battery, I.iebert & Rosenthal  Galvanic battery, F. Shaw  Game, mathematical, L. Martane  Gas and air mixer, H. J. Bell	400,083 400,236 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,267 400,261 400,211 400,261 400,281 400,282 400,483 400,173 400,284 400,284 400,284 400,284 400,284 400,284 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285 400,285
7 0 111726 997709 5997238 49968371699979 2299566	Galvanic battery, I.iebert & Rosenthal Galvanic battery, F. Shaw Game, mathematical, L. Martane Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,090 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,267 400,261 400,283 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,284 400,285 400,286 400,286 400,286 400,287 400,28
7 0 1117266 997709 59977238 499683716999779 2299566	Galvanic battery, I.iebert & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,000 400,168 400,169 400,174 400,073 400,173 400,173 400,267 400,267 400,267 400,261 400,261 400,284 400,284 400,284 400,284 400,485 400,281 400,28
7 0 1117266 997709 59977238 496683716699779 22995660	Galvanic battery, I.iebect & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,073 400,173 400,173 400,267 400,267 400,267 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,156 400,156 400,156 400,156
7 0 111726 997709 59972388 49668371699979 2299566034	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,003 400,168 400,169 400,174 400,073 400,173 400,267 400,267 400,263 400,263 400,263 400,264 400,261 400,404 400,411 400,150 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414
7 0 111726 997709 5997238 49968371699779 22995660545	Galvanic battery, I.iebect & Rosenthal. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,169 400,169 400,174 400,073 400,173 400,267 400,267 400,267 400,261 400,414 400,156 400,156 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414 400,414
7 0 111726 997709 5997238 49968371699779 2299566034566	Galvanic battery, I.iebect & Rosenthal. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,267 400,261 400,261 400,211 400,392 400,282 400,412 400,283 400,153 400,153 400,153 400,153 400,153 400,153 400,154 400,211 400,392 400,282 400,282 400,153 400,154 400,155 400,150 400,150 400,150 400,150 400,150 400,163 400,16
7 0 111726 997709 5997238 49968371699779 2299566034566	Galvanic battery, I.iebect & Rosenthal. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,173 400,267 400,363 400,416 400,211 400,383 400,267 400,383 400,267 400,383 400,267 400,383 400,267 400,383 400,267 400,383 400,281
7 0 111726 997709 59977238 496883716999779 229958660845667	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,267 400,263 400,173 400,264 400,091 400,264 400,091 400,183 400,18
7 0 111726 997709 59977238 496883716999779 229958660845667	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,090 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,267 400,263 400,263 400,264 400,264 400,264 400,264 400,264 400,264 400,265 400,267 400,26
7 0 111726 997709 59972388 49968371699979 229956600843667 13	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,363 400,173 400,267 400,267 400,267 400,261 400,26
7 0 111726 99709 59977238 496683716699979 229956660345667 13 88	Galvanic battery, F. Shaw. Gane, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,173 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,261 400,363
7 0 111726 99709 59977238 4968837116999779 22995660345667 13 88 1	Galvanic battery, I.iebect & Rosenthal.  Galvanic battery, F. Shaw.  Game, mathematical, L. Martane.  Gas and air mixer, H. J. Bell	400,083 400,235 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,363 400,267 400,363 400,211 400,385 400,281 400,281 400,281 400,385 400,481 400,181 400,188 400,189 400,281 400,385
7 0 111726 99709 5997238 49668371699779 2299566034567 13 88 1220	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,235 400,237 400,177 400,090 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,267 400,261 400,283 400,283
7 0 111726 997709 5997238 499683716999779 1299956601845567 13 88 122018	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,235 400,237 400,177 400,090 400,168 400,169 400,174 400,839 400,173 400,267 400,267 400,267 400,261 400,283 400,283
7 0 111726 997709 5997238 499683716999779 1299956601845567 13 88 122018	Galvanic battery, I.iebect & Rosenthal. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,883 400,236 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,267 400,261 400,283 400,183 400,183 400,183 400,183 400,183 400,183 400,267 400,363 400,414 400,411 400,411 400,411 400,156 400,156 400,156 400,156 400,156 400,200 400,40
7 0 111726 997709 59977238 499683716999779 2299956600345667 13 88 12201833	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,173 400,267 400,363 400,173 400,261 400,363 400,183
47 0 111726 99709 5997238 49688371699979 229955660845667 3 8 12083 336	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,883 400,235 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,363 400,173 400,267 400,363 400,188 400,188 400,189 400,189 400,189 400,189 400,281 400,186 400,186 400,187 400,368 400,368 400,418 400,186 400,186 400,186 400,186 400,187 400,368 400,418
7 0 111726 997709 59977238 499683718999779 1299956601345667 13 88 1201836 53	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,237 400,177 400,060 400,168 400,169 400,174 400,839 400,173 400,173 400,173 400,267 400,363 400,183 400,183 400,183 400,183 400,183 400,183 400,183 400,183 400,183 400,183 400,281 400,183
7 0 111726 997709 59977238 499683718999779 1299956601345667 13 88 1201836 53	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mixer, H. J. Bell	400,083 400,235 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,267 400,173 400,267 400,267 400,363 400,188 400,189 400,181
7 0 111726 99709 5997238 4968371699979 22995660034567 3 38 12083 336	Galvanic battery, F. Shaw. Galvanic battery, F. Shaw. Game, mathematical, L. Martane. Gas and air mizer, H. J. Bell	400,083 400,235 400,237 400,177 400,080 400,168 400,169 400,174 400,839 400,173 400,173 400,173 400,267 400,363 400,183