he makes an earnest plea for assistance to be given to investigators in these lines. Our readers are already familiar with some of this class of work, from our description of Professor Pickering's work at the Harvard College observatory, and considerable space is given to the results of the Henry Draper memorial investiga-tions in the book before us. The illustrations include solar and stellar studies, plates of spectra, and representations of lunar photographs. Some terrestrial views of the scenes in the mountains where the tireless observers were at work give a graphic idea of the hardships of the astronomer's field life. The paper is heavy, the margins are wide, and with its ornamental binding the book presents a most attractive appearance, and one quite in consonance with the holiday season.

CATALOGUE OF PRACTICAL AND SCIEN TIFIC BOOKS. Published by Henry Carey Baird & Co., 810 Walnut Street Philadelphia, Pa., U. S. A.

We have received a copy of the above catalog which is devoted to the publications of this well knews its contents. It comprises a large assortment of affandard works on technical subjects, and the principal torks have a synopsis of the contents given, so that a beyon can order safely from the catalogue, knowing in advance whether what he is buying will be likely to suit his requirements. An "Index to Subjects" is a distinguishing feature that enhances the value of the catalogue. It is sent free of postage to all wishing it.



HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters, or no attention will be paid thereto. This is for our 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 This is for our information, and not for publication.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, each 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 had at the office. Price 10 cents each. to may be had at the office. Price 10 cents each.

Books referred to promptly supplied on receipt of price.

Minerals sent for examination should be distinctly marked or labeled.

wheels would make a good set for ordinary use on a small Barnes lathe, which I wish to convert from a hand feed to an automatic screw-cutting feed? How many kerosene be burned as a gas? That is, what temperateeth should the several wheels contain? A. For a small | ture must be applied? If it will form a gas in this way, lathe for amateur work the screw should be 10 threads to an inch. If the screw has a left hand thread, it will train gives the best control of the distance between the centers of spindle and screw. The change can be made movable on a radius bar to accommodate the varying distance made by the different sizes of thread gear. The teeth should be about three-sixteenths inch pitch. The spindle, change gear, and inside stud gear may be 36 teeth. Then for outside stud gear and screw gear for-

| | Stud gear. | Screw gear. |
|--------------|------------|-------------|
| 10 threads. | 32 | 32 teeth. |
| 12 " | 40 | 48 / |
| 14 " | 40 | 56 |
| 16 " | 20 | 32 |
| 18 " | 20 | 36 |
| 20 - | 20 | 40 |
| 22 '' | 20 | 44 |
| 24 '' | 20 | 48 |
| 26 '' | 20 | 52 |
| 28 '* | 20 | 56 |
| 30 '' | 20 | 60 |
| **** 1 1 1 1 | 41 4 | |

2. Which would be the most economical and practical form of rotary engine-one of large diameter and short through shaft, or small diameter and greater ength? Would not the first develop greater power at slower speed? Theoretically, the rotary engine would seem to be the best form of steam motor, as there are no dead centers and motion is continuous in one direction. Since steam can also be used expansively in this form of engine, what are the objections that prevent its more general use? A. No form of rotary engine has as yet been found to be economical when the factors of wear and waste of steam are considered. This is probably the secret of their scarcity in the list of steam engines on the market for practical and durable work. The large diameter rotary has narrow disks sweeping over large surfaces that are difficult to adjust to prevent leakage. The small diameter rotaries are the class that have mostly been adopted by builders of

- (2) J. A. asks how he can make a magdistributes the magnetism so as to act as a magnetic get 3 inch sparks.
- after being filled with resin or fusible metal, the filling melted out, and the springs then burnished. They ounce, zinc 4 ounces. Very small gauges have been made for special purposes, having springs 11/2 to 2 inches diameter.
- (4) J. B. asks a cure or, at least, a relief for chilblains. A. Dissolve 1 ounce ammonium chloride in 1/2 pint cider vinegar, and apply frequently: 1/2 pint alcohol may be added to this lotion with good effect.
- of the composition, allowing each to dry before putting the paraffine well into the wood with a warm iron.

on the next. The first may be of shellac and lampblack only. The Harvard liquid slating sold by paint hous is likewise an excellent preparation for this purpose

- (6) C. W. F. asks: 1. How can I make a good sticky fly paper? A. In a tin vessel melt together pound resin and add 2 fluid drachms of linseed oil. While the mixture is warm dip a spatula into it and spread what adheres to the blade on foolscap paper. Different samples of resin require varying proportions of oil to make it spread properly. 2. What cement can I use to glue brass or steel to a thickly painted surface? A. No cement will make such a joint. 3. I have quite a quantity of tar, used for making gravel roofs. What can I mix it with to make a paint for shingles? A. Use coal tar benzol to dissolve or thin the tar,
- (7) E. A. J. asks (1) how to make a strong parchment paper. A. Mix dilute strong sulphuric acid with 1/2 its volume of water and allow it to cool to about 65° Fah. Then immerse unsized paper in the cold acid for 10 to 50 seconds, according to its thickness. The paper is then well washed in cold runhouse. Space does not permit us to more than high at ning water, and dipped in dilute ammonia, again washed in water and finally dried. 2. How to make a good and cheap roofing paint-practically fire and water proof. A. Use the formula given in Scientific AMERICAN SUPPLEMENT, No. 113, under "Recipe for Roofing Paints."
 - (8) E. T. S. asks: 1. How can I give pine wood an ebony finish? A. Use the following: Dissolve 4 ounces shellac with 2 ounces borax in 1/4 gallon water. Boil until a perfect solution is obtained, then add 1/2 ounce glycerine, after which add sufficient aniline black (soluble in water), and it is ready for use. 2. How to crystallize glass so that it will not wash off. I have used salts and sour beer, but the least moisture destroys it. A. After you have allowed your salts to crystallize, thin-coat the glass with a light coat of varnish. Otherwise you must use the sand blast or some permanent method. 3. How to transfer any lithograph or printed picture of any kind on glass, so that it will be visible from both sides, and will last a long time? A. The process consists essentially in giving the warmed glass an even coating of balsam or negative varnish. Place the face of the print on the surface thus prepared, when the varnish is partly dry, but still tacky. Smooth it out and let it stand in a cool place until the varnish sets. Then apply water, and with a soft piece of gum rubber, or the finger tips, rub off the paper so as to leave the image on the varnished glass,
- (9) C. P. S. asks (1) the point at which gasoline becomes a vapor or gas so that it can be burned. A. Gasoline is inflammable at the ordinary temperature, and can be burned. In using this as a gas, (1) N. B. D. asks: 1. How many gear it is generally the habit to force air through a convenient vessel filled with shavings, saturated with gasoline, and as it comes out it may be ignited. 2. Can is there any residue left in the tank? A. Kerosene has a burning point of 100° Fah., or upward, according to require a 4 gear train. If a right hand thread, it will re-, its quality. If properly burned, there will be no residue quire a 5 gear train. The left hand screw and 5 gear except carbon, same as in gas.
 - (10) W. S. desires a recipe for the padding glue so commonly used by printers throughout the country. A. Use a cheap glue, with five per cent glycerine, made into a mixture with any suitable coloring material. Some use ordinary rubber cement, made by dissolving rubber in carbon disulphide.
 - (11) A. G. M. asks how to clean kid gloves. A. Provide a tall glass cylinder, in the bottom of which place strong aqua ammonia. Be careful to remove from the sides of the jar any ammonia that may have been spattered upon them. Suspend the gloves to the stopper of the jar and allow them to remain for a day in the atmosphere of ammonia. They must not come in contact with the liquid. Rubbing with bread crumbs, in connection with the above, or without the use of ammonia, is also much practiced.
 - (12) L. S. C. asks the formula used in making oil coats (the light yellow ones worn by teamsters). A. As far as we can learn, the process consists simply in dipping the articles into boiled linseed oil. An excellent receipt is boiled oil 15 pounds, beeswax 1 pound, ground litharge 13 pounds. Mix and apply with a brush to the article, previously stretched against a wall or a table, first well washing and drying each article before applying the composition
- (13) H. G. H. asks for information on the following points concerning the construction of an induction coil, similar to the one described in Supple-MENT, No. 160, but 16 inches in length. What size of wire should be used for the primary coil? How many thicknesses of varnished paper should be placed between the layers of the secondary coil, the layers being wrapped entirely across the coil? A condenser of how many square feet should be used? How many cells bichromate of potash battery will best operate the coil? How long sparks ought such a coil to give? A. Use the same wire as specified in the article in Supplement, No. 160, for a 16 inch induction coil. Put 60 to 80 square feet of net exert its magnetic attraction through 6 inches of | tin foil in the condenser. Do not wind the wire all metal-alternate layers of steel (hardened) and iron. the way across the coil, but divide in four or more di-A. This is practically impossible. The mass of iron visions. Use four or six bichromate cells. You should

(14) S. J. S. asks (1) a receipt for a dead (3) S. M. L.—The springs of steam | black paint for photo use and inside of optical ingauges are made of seamless tubing flattened by draw-struments. A. For a dead black for inside of tubes use ing over a flat mandrel, and bent to the proper form lampblack or artists' boneblack mixed with alcohol in which a few drops of shellac varnish have been mixed. No more shellac than will just make the black stick. are generally made of an alloy of copper 1 pound, tin 1 Make a trial on a piece of metal. If, on drying, it shows the least shining surface, there is too much shellac. If, on the contrary, the black readily rubs off with the fingers, there is not enough shellac. A drop of shellac varnish to a tablespoonful of the mixture may change its drying character to a shining or a dead surface. As but a very small quantity of the blacking is needed for an instrument, we cannot readily give the precise quantity. 2. Can a wooden tray be coated with rubber so as (5) W. B. desires a receipt for making to resist acids (chemicals used in photography)? If so, blackboard. A. Take 1/2 gallon shellac varnish, 5 how? A. A wooden tray can be coated with rubber varounces lampblack, 3 ounces powdered iron ore or nish and dried in an oven. We recommend paraffine as emery. If too thick, thin with alcohol. Give three coats more suitable for chemicals. Warm the tray and send

TO INVENTORS.

An experience of forty years, and the preparation of more than one hundred thousand applications for pa tents at home and abroad, enable us to understand the iaws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 861 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

December 6, 1887,

AND EACH BEARING THAT DATE.

[Seenote at end of list about copies of these patents.]

Acid of alpha-naphthol, monosulpho, A. Lieb-

| mann | 374,259 | • |
|--|---|-----------------|
| Açids, apparatus for concentrating, Pischon & | | |
| Pfennig | | 1 |
| Anchor, folding, T. G. Edmondson | 374,526 |] |
| Animal catching device, W. Miller | 374,488 | |
| Animal releasing device, Richards & French | |] |
| Animal shears, J. W. Banner | | 1 |
| Asparagus buncher, E. Watts | | 1 |
| Autographic register, W. Assheton | | ľ |
| Automatic brake, W. H. Thornton | 374 379 | i |
| Automatic gate, S. M. Williamson, Jr | 374,236 | ; |
| Ax, C. Maloney | 374,483 | ľ |
| Axle box, R. M. & C. F. Barrett | 374,234 | ١, |
| Axle skein, E. N. Hatcher | 374,473 | . 1 |
| Axle, wagon, O. C. Hall | 374,301 | 1 |
| Axles, attachment for broken, T. Patton | 374,200 | ŀ |
| Bag. See Mail bag. | |] |
| Bag or satchel fastening, W. Roemer | |] |
| Bag or satchel frame, W. Roemer | 374,325 | |
| Balance swing, C. Schwager | 374,200 | |
| Bale ties, machine for making wire, Lenox & | 0*4 500 | |
| Cook | 274 450 | ; |
| Baling press, W. W. Seeley | | ; |
| Band cutter and feeder, J. H. Winslow | 374.513 | ľ |
| Bar. See Grate bar. | 012,020 | ľ |
| Barrel firing apparatus, W. S. Wymond | 374.570 | ľ |
| Barrel head and fastening, R. C. Boekler | | ľ |
| Basin cover, catch, G. G. Campbell | | |
| Battery. See Galvanic battery. | |] |
| Bed stay, C. Bethea | 374,443 | |
| Bell for car horses, W. Scarffe | | : |
| Bicycle step, T. Benfield | 374,287 | |
| Bit. See Bridle bit. | | ı |
| Bit stock, W. B. Gilmore | 374,185 | 1 |
| Blacking box, C. N. Willis | 514,282 | , |
| Blast furnaces, apparatus for heating blasts for. | 374,24U | , |
| Blinds, lift for sliding, H. E. Willer | 374,385 | 1 |
| Blinds, receptacle for sliding window, H. E. Wil- | | |
| ler | 374,384 | i i |
| Blower for stoves or grates, O. J. Buckus | 374,334 | ١. |
| Boat. See Ice breaking boat. Boiler cleaner, Smith & Meiklejohn | 974 500 | : |
| Bolt. See Flour bolt. | 014,002 | : |
| Bolt, F. T. Cladek | 274 451 | |
| Bolt, E. F. W. Zarbock | 374.229 | |
| Bolt, E. F. W. Zarbock Books, page fastener for, W. I. Winne | 374,386 | i |
| Boot and manufacture of same, fabric, M. V. | • | l |
| Beiger | 374,33 8 | l |
| Boot and shoe heels, rotary cutter for trimming, | | ł |
| W. Manley | | |
| Boots or shoe heels, machine for forming, E. | | |
| | | ı |
| Jones | 374,536 | |
| Jones | 374,536 374,311 | |
| Jones | 374,536 374,311 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart | 374,536 '374,311 '374,353 | |
| Jones | 374,536 '374,311 '374,353 374,416 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boring tool, C. A. Simmons | 374,536 374,311 374,353 374,416 374,363 374,432 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernar- | 374,336 374,353 374,416 374,363 374,432 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 | - |
| Jones Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,553 374,263 | |
| Jones Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,553 374,263 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottle stopper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,553 374,263 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 | |
| Jones Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake, Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,553 374,263 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. | 374,536 374,311 374,363 374,416 374,363 374,517 374,553 374,263 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 374,427 374,273 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 374,427 374,273 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boting tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Autenatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 374,263 374,273 374,340 374,340 374,340 374,340 374,345 374,435 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridge gate, swinging, C. Von der Muhlen. | 374,536 374,311 374,353 374,416 374,363 374,432 374,553 374,263 374,273 374,273 374,356 374,356 374,356 374,356 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boting tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Autenatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 374,273 374,352 374,352 374,352 374,352 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,463 374,463 374,563 374,263 374,263 374,273 374,560 374,352 374,560 374,352 374,560 374,156 374,156 374,156 374,156 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridge gate, swinging, C. Von der Muhlen. Briduettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. | 374,536 374,311 374,353 374,416 374,363 374,4363 374,517 374,553 374,263 374,273 374,273 374,356 374,356 374,356 374,356 374,356 374,357 374,357 374,357 374,357 374,357 | |
| Jones Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles stopper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake, Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,353 374,432 374,553 374,263 374,263 374,273 374,273 374,350 374,350 374,350 374,171 374,470 374,370 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Botile caps, machine for clinching, A. L. Bernardin Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Aucumatic brake. Cornice brake Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,463 374,463 374,563 374,263 374,263 374,273 374,273 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,353 374,353 374,353 374,353 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridge gate, swinging, C. Von der Muhlen. Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith Bustle, W. A. Dotey. | 374,536 374,311 374,353 374,416 374,363 374,4363 374,451 374,517 374,563 374,263 374,273 374,540 374,356 374,356 374,198 374,198 374,198 374,198 374,198 374,198 | |
| Jones Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,353 374,452 374,517 374,553 374,263 374,263 374,2427 374,356 374,356 374,352 374,352 374,171 374,477 374,371 374,477 374,351 374,416 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boting tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 374,263 374,263 374,363 374,352 374,540 374,352 374,560 374,435 374,470 374,470 374,470 374,470 374,470 374,470 374,470 374,470 374,470 374,470 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Bottle caps, machine for clinching, A. L. Bernardin Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake, Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,517 374,563 374,263 374,263 374,263 374,356 374,356 374,356 374,356 374,356 374,356 374,356 374,356 374,171 374,377 374,377 374,510 374,376 374,377 374,180 374,180 374,216 374,258 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boting tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,353 374,452 374,553 374,263 374,263 374,263 374,263 374,356 374,356 374,356 374,356 374,356 374,171 374,470 374,371 374,471 374,57 | |
| Jones Boot or shoe tree, S. Mawhinney Boots, etc., stretcher for felt or fabric, A. Eberhart Boots or shoes, cutter head for, W. Manley Boring machine, wood, H. Ihsen Boting tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin Bottles caps, machine for forming sheet metal, W. H. Northall Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Autendatic brake. Cornice brake Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,311 374,353 374,416 374,363 374,432 374,563 374,263 374,263 374,263 374,263 374,360 374,352 374,560 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,352 | |
| Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent | 374,536 374,416 374,353 374,416 374,353 374,452 374,553 374,263 374,263 374,273 374,540 374,356 374,356 374,356 374,357 374,540 374,357 374,540 374,357 374,540 374,357 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith Bustle, W. A. Dotey. Bustle, T. P. Taylor. Button, H. Gray. Button, E. L. Lambert. Button, collar, W. Scott. Button or stud, B. Lyon Can coupling, J. W. Dillon. Car coupling, J. W. Dillon. | 374,536 374,416 374,353 374,416 374,353 374,432 374,553 374,263 374,263 374,263 374,366 374,366 374,366 374,366 374,366 374,368 374,171 374,470 374,180 374,180 374,180 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,368 | |
| Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Aule machine for fake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. Bridge gate, Graw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith. Bustle, V. H. Buschmann. Bustle, W. A. Dotey. Bustle, T. P. Taylor. Button, E. L. Lambert. Button, collar, W. Scott. Button, collar, W. Scott. Button or stud, B. Lyon. Car coupling, J. W. Dillon. Car coupling, J. D. Keith. | 374,536 374,311 374,353 374,416 374,363 374,463 374,563 374,263 374,263 374,263 374,263 374,263 374,352 374,352 374,352 374,352 374,352 374,352 374,352 374,353 374,216 374,216 374,216 374,216 374,216 374,216 374,216 374,216 374,316 374,216 374,316 374,216 374,316 374,216 374,316 374,316 374,316 374,316 374,316 374,316 374,316 374,316 374,316 374,316 374,316 374,316 374,316 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. Srick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. A. Gilbert. Bustle, V. H. Buschmann Bustle, W. A. Dotey Bustle, T. P. Taylor. Button, E. L. Lambert. Button, collar, W. Scott. Button or stud, B. Lyon Can, H. E. Tiepke. Car coupling, J. W. Dillon Car coupling, J. D. Keith Car heater, railway, W. C. Baker. | 374,536 374,416 374,453 374,463 374,463 374,4563 374,263 374,263 374,263 374,273 374,540 374,356 374,485 374,356 374,198 374,479 374,519 374,180 374,198 374,216 374,533 374,256 374,257 374,519 374,216 374,377 374,519 374,216 374,366 374,252 374,366 374,253 374,252 374,366 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith. Bustle, W. A. Dotey. Button, H. Gray. Button, E. L. Lambert. Button, collar, W. Scott. Button or stud, B. Lyon Can, H. E. Tiepke. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car car pater, R. B. Cuthbert. Car heater, R. B. Cuthbert. Car heater, R. B. Cuthbert. Car heater, railway, W. C. Baker. Car heater, R. B. Cuthbert. | 374,536 374,416 374,453 374,453 374,452 374,553 374,263 374,263 374,27 374,540 374,356 374,352 374,540 374,356 374,171 374,470 374,352 374,528 374,258 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Aule make. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith. Bustle, V. H. Buschmann. Bustle, W. A. Dotey. Bustle, T. P. Taylor. 374,214 Button, E. L. Lambert. Button, collar, W. Scott. Button or stud, B. Lyon. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car car heater, R. B. Cuthbert. | 374,536 374,416 374,453 374,416 374,453 374,452 374,563 374,263 374,263 374,273 374,560 374,356 374,356 374,356 374,356 374,356 374,356 374,356 374,357 374,575 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake, Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. Bridge gate, draw, Fracher & Hoyt. Bridge gate, draw, Fracher & Hoyt. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith Bustle, V. H. Buschmann Bustle, W. A. Dotey Bustle, T. P. Taylor. Button, H. Gray. Button, E. L. Lambert. Button, collar, W. Scott. Button or stud, B. Lyon Can, H. E. Tiepke. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car heater, R. B. Cuthbert. Car heater, railway, W. C. Baker. Car step, railway, Vincent & Cairns. | 374,536 374,416 374,453 374,463 374,463 374,463 374,563 374,263 374,263 374,263 374,263 374,263 374,263 374,350 374,350 374,350 374,193 374,160 374,377 374,519 374,160 374,377 374,519 374,263 374,263 374,252 374,366 374,233 374,255 374,255 374,255 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Aule make. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith. Bustle, V. H. Buschmann. Bustle, W. A. Dotey. Bustle, T. P. Taylor. 374,214 Button, E. L. Lambert. Button, collar, W. Scott. Button or stud, B. Lyon. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car car heater, R. B. Cuthbert. | 374,536 374,416 374,453 374,463 374,463 374,463 374,563 374,263 374,263 374,263 374,263 374,263 374,263 374,350 374,350 374,350 374,193 374,160 374,377 374,519 374,160 374,377 374,519 374,263 374,263 374,252 374,366 374,233 374,255 374,255 374,255 | |
| Jones. Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake, Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent | 374,536 374,416 374,453 374,416 374,453 374,463 374,427 374,563 374,263 374,263 374,263 374,352 374,560 374,352 374,560 374,180 374,377 374,519 374,180 374,180 374,263 374,253 374,255 374,255 374,255 374,255 374,255 374,255 374,255 374,255 374,255 | |
| Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles topper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent | 374,536 374,416 374,453 374,416 374,453 374,463 374,427 374,563 374,263 374,263 374,263 374,352 374,560 374,352 374,560 374,180 374,377 374,519 374,180 374,180 374,263 374,253 374,255 374,255 374,255 374,255 374,255 374,255 374,255 374,255 374,255 | |
| Boots or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272. Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. L. Smith. Bustle, W. A. Dotey. Bustle, T. P. Taylor. 374,214 Button, E. L. Lambert. Button, Clar, W. Scott. Button or stud, B. Lyon. Can, H. E. Tiepke. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car carefer, R. B. Cuthbert. Car heater, R. B. Cuthbert. Car tegp, railway, W. C. Baker. Car carefing apparatus, J. H. Sewall. Car roof, A. P. Le Gros. Car step, railway, Vincent & Cairns. Carpet fastener, R. S. Grummon. Carrier, J. A. Jeffrey. Cart, dump, J. G. Frogner. Care. Carel Case. See Clock case. Pencil case. | 374,536 374,416 374,436 374,436 374,432 374,553 374,263 374,263 374,263 374,263 374,263 374,366 374,366 374,366 374,366 374,263 374,273 374,519 374,171 374,519 374,180 | |
| Boots or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Aule make. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush, contact, E. L. Orcutt. Brush or mop holder, M. Bourke. Buckle, D. A. Gilbert. Buckle, D. L. Smith Bustle, V. H. Buschmann. Bustle, W. A. Dotey. Bustle, T. P. Taylor. 374,214 Button, E. L. Lambert. Button, Collar, W. Scott. Button or stud, B. Lyon. Can, H. E. Tiepke. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car car heater, R. B. Cuthbert. Car heating apparatus, J. H. Sewall. Car roof, A. P. Le Gros. Car step, railway, Vincent & Cairns. Carpet fastener, R. S. Grummon. Carrier, J. A. Jeffrey. Cart, dump, J. G. Frogner. Case. See Clock case. Pencil case. Caster, truck or furniture, S. M. Michelson. | 374,536 374,416 374,436 374,436 374,432 374,553 374,263 374,263 374,263 374,263 374,263 374,366 374,366 374,366 374,366 374,263 374,273 374,519 374,171 374,519 374,180 | |
| Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent | 374,536 374,416 374,353 374,436 374,432 374,553 374,263 374,263 374,273 374,540 374,356 374,356 374,356 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,435 374,436 374,539 374,539 374,535 374,545 374,545 374,545 374,545 374,545 374,545 374,545 374,545 374,545 374,545 374,545 374,545 374,545 | |
| Boots or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,416 374,353 374,416 374,353 374,427 374,553 374,263 374,273 374,540 374,356 374,352 374,560 374,356 374,352 374,560 374,356 374,258 374,171 374,519 374,180 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 | |
| Boots or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons. Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes. Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent. 374,272, Brick drying kiln and car to be used therein, J. R. Kemp. Bridge gate, swinging, C. Von der Muhlen. Bridle bit, L. F. Dean Briquettes, manufacture of, J. J. Saltery. Brush or mop holder, M. Bourke. Buckle, D. L. Smith. Bustle, W. A. Dotey. Bustle, T. P. Taylor. 374,214 Button, Clar, W. Scott. Button or stud, B. Lyon. Can, H. E. Tiepke. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car coupling, J. W. Dillon. Car car tep, railway, W. C. Baker. Car heater, R. B. Cuthbert. Car heater, R. S. Grummon. Chair. See Opera chair. Chair, S. Hayward. Chair. See Obeck case. Pencil case. Caster, truck or f | 374,536 374,416 374,353 374,416 374,353 374,427 374,553 374,263 374,263 374,263 374,263 374,352 374,560 374,366 374,366 374,366 374,366 374,263 374,253 | |
| Boots or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock Brake shoe, J. Pollock Brake shoe, G. M. Sargent | 374,536 374,416 374,353 374,416 374,353 374,432 374,517 374,553 374,263 374,273 374,540 374,356 374,356 374,356 374,377 374,519 374,180 374,171 374,477 374,519 374,180 374,183 374,171 374,477 374,519 374,180 374,180 374,183 374,171 374,519 374,180 374,531 374,180 374,531 374,253 374,253 374,253 374,253 374,253 374,253 374,253 | |
| Boot or shoe tree, S. Mawhinney. Boots, etc., stretcher for felt or fabric, A. Eberhart. Boots or shoes, cutter head for, W. Manley. Boring machine, wood, H. Ihsen. Boring tool, C. A. Simmons Bottle caps, machine for clinching, A. L. Bernardin. Bottles caps, machine for forming sheet metal, W. H. Northall. Bottle stopper, J. McInnes Box. See Axle box. Blacking box. Fare box. Music box. Tree box. Bracket. See Curtain pole bracket. Brake. See Automatic brake. Cornice brake. Vehicle brake. Wagon brake. Brake shoe, J. Pollock. Brake shoe, G. M. Sargent | 374,536 374,416 374,353 374,416 374,353 374,432 374,553 374,263 374,273 374,540 374,356 374,352 374,477 374,519 374,171 374,519 374,180 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 374,258 | |

| Chuck, lathe, F. L. Gregory | |
|--|---|
| Clamp. See Miter clamp. Cleaner. See Boiler cleaner. Clock case, A. Bannatyne | 374,516 |
| Clod crusher and harrow, J. H. Wyatt | |
| Clothes reel, portable, F. & A. F. Slooter | 374,876 374,188 |
| Coin bags, sealing, C. A. Judd | 37 4,255 37 4, 328 |
| Collars and other articles, manufacturing horse, A. B. Coleman | 374,452 |
| G. C. Keene | 37 4,306 37 4, 39 2 |
| Corset fastening, L. Hill | 374,215 |
| Coupling. See Car coupling. Evener coupling. Pipe coupling. Thill coupling. Tube coup- | |
| ling. Crib, child's, E. W. Smith | 374,277 |
| Crusher. See Clod crusher. Cue tip, H. Story | |
| Cultivator, disk, A. Spire | 374,538 |
| Cut-off for water supply pipes, J. A. Adams Cutter. See Band cutter. Meat cutter. Rod cut- | 374,162 |
| ter. Rotary cutter. Dam and reservoir construction, H. W. R. Strong Dental engine, A. Weber | 374,221 |
| Dental engine, electrical, G. W. Whitefield Dental engines, hand piece for, Bell & Marsh Digger. See Post hole digger. | |
| Door, adjustable screen, W. Hughes Door check, F. L. Becker | 374,337 |
| Door check, G. Geer Door check, J. P. & J. H. Swift Doors or gates, apparatus for opening and clos- | 374,563 |
| ing, C. P. Niles | 37 4,552 37 4,46 8 |
| Dredging machine, C. C. Sullivan Dress shield, L. Bryarly Drier, C. F. B. Caspari | 374,172 |
| Drill. See Grain drill. Drilling machine attachment, W. Evans Drum, heating, J. W. Yates | |
| Drum or spark arrester, heating, U. J. Wakeman. Drums, lid for metallic, J. Simpson | 374,436 374,276 |
| Dyeing, E. Rau | 374,314 |
| Electric current regulator, S. D. Field | 374,381 |
| Electric wires, underground system for, J. P. Davis | 374,458 |
| Electrical conductors, underground conduit for, G. W. Cook Elevator stop, F. C. Cannon | 374,348 374,396 |
| Embossing paper, wood, etc., machine for, J. P. Jamison Engine. See Dental engine. Portable engine. | 374,253 |
| Rotary engine. Steam engine. Engines, device for Highton Steam, U. E. Barnes | |
| Dagineer de rice for angula produit, er er barbess | 374,168 |
| Engraving machine, Ourdan & Kolb | 374,492 374,523 |
| Engraving machine, Ourdan & Kolb | 374,492 374,523 374,294 374,496 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. | 374,492 374,523 374,294 374,496 374,371 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. | 374,992 374,523 374,294 374,496 374,371 374,546 374,471 374,232 374,550 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal Fence machine, J. C. Riddle Fence posts, manufacture of, J. W. Griswold | 374,992 374,523 374,294 371,496 374,371 374,546 374,471 374,232 374,550 374,437 374,232 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. | 374,992 374,523 374,523 374,496 374,371 374,546 374,471 374,282 374,497 374,497 374,491 374,463 374,455 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal Fence machine, A. J. Neal Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire arms, telescopic sight for, R. C. Rice. | 374,492 374,523 374,523 374,294 374,496 374,371 374,522 374,471 374,222 374,457 374,453 374,463 374,463 374,463 374,463 374,463 374,463 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Firearms, telescopic sight for, R. C. Rice. Fire excape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. | 374,492 374,523 374,523 374,294 374,496 374,471 374,471 374,272 374,550 374,471 374,453 374,461 374,463 374,463 374,463 374,463 374,461 374,463 374,461 374,461 374,461 374,202 374,214 374,214 374,219 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing-reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,496 374,371 374,550 374,471 374,232 374,550 374,461 374,453 374,461 374,453 374,461 374,453 374,461 374,453 374,461 374,202 374,451 374,202 374,501 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire acape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,496 374,471 374,471 374,471 374,259 374,461 374,463 374,463 374,463 374,461 374,463 374,461 374,463 374,461 374,463 374,461 374,461 374,490 374,490 374,490 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fance box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,496 374,371 374,471 374,471 374,453 374,259 374,461 374,463 374,463 374,463 374,463 374,463 374,463 374,463 374,461 374,400 374,490 374,490 374,490 374,490 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fire paper, J. M. D. France. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,496 374,496 374,471 374,232 374,450 374,471 374,289 374,461 374,461 374,462 374,461 374,202 374,461 374,202 374,461 374,202 374,461 374,202 374,461 374,202 374,475 374,202 374,201 374,20 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire arms, telescopic sight for, R. C. Rice. Fire excinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,496 374,496 374,471 374,232 374,550 374,471 374,232 374,455 374,461 374,455 374,461 374,202 374,461 374,202 374,461 374,202 374,461 374,202 374,491 374,211 374,211 374,211 374,211 374,215 374,216 374,21 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fire paper, J. M. D. France. Fire extinguisher for, T. R. Crane. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,196 374,496 374,471 374,232 374,450 374,461 374,461 374,462 374,461 374,262 374,262 374,262 374,266 374,276 374,286 374,490 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Folur bolt, Smith & Cochrane | 374,492 374,523 374,523 374,294 374,496 374,471 374,471 374,452 374,550 374,429 374,461 374,429 374,463 374,429 374,463 374,421 374,401 374,490 374,49 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal Fence machine, A. J. Neal Fence machine, A. J. Neal Fence mosts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Forcing frame, J. Siem. Fork. See Velocipede fork. Frame. See Bag or satchel frame. Forcing frame. Slate frame. Frunace. See Plumber's or tinner's furnace Smoke consuming furnace. Furnace door, W. Kearney. Galvanic battery, F. J. Crouch. Galvanic battery, F. J. Crouch. Gas governor, L. P. Blair. Gas lighter, electric, J. B. Entz. Gas pressure regulator and cut-off, O. J. McGann Gate. See Automatic gate. Bridge gate. Governor, electric, W. H. Reynolds. Grain binder, W. M. Piatt. Grain binder, G. H. Spaulding. Grain binder, Trip mechanism for, J. P. Bullock | 374,492 374,523 374,523 374,294 374,496 374,471 374,452 374,550 374,429 374,453 374,461 374,453 374,467 374,467 374,211 374,453 374,211 374,453 374,211 374,453 374,211 374,453 374,211 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal Fence machine, A. J. Neal Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Foring frame, J. Siem. Fork. See Velocipede fork. Frame. See Bag or satchel frame. Forcing frame. Slate frame. Fruriace. See Plumber's or tinner's furnace Smoke consuming furnace. Furnace door, W. Kearney. Galvanic battery, F. J. Crouch. Galvanic battery, F. J. Crouch. Galvanic battery, H. E. Waite. Gas governor, L. P. Blair. Gas lighter, electric, J. B. Entz. Gas pressure regulator and cut-off, O. J. McGann Gate. See Automatic gate. Bridge gate. Girder or arch, C. H. Rodemer. Governor, electric, W. H. Reynolds. Grain binder, W. M. Piatt. Grain binder, K. T. Spaulding Grain binders, trip mechanism for, J. P. Bullock Grain drill, W. D. Arnett. Grain drills, feed device for, T. R. Crane. | 374,492 374,523 374,523 374,294 374,496 374,471 374,252 374,550 374,471 374,253 374,461 374,453 374,461 374,453 374,461 374,453 374,461 374,211 374,450 374,45 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence machine, J. C. Riddle. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Firelizer distributer, E. J. Corser. Firelizer distributer, E. J. Corser. Fire paper, J. M. D. France. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,523 374,294 374,396 374,471 374,232 374,450 374,461 374,461 374,462 374,463 374,461 374,262 374,461 374,262 374,461 374,262 374,461 374,211 374,490 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire arms, telescopic sight for, R. C. Rice. Fire excinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,523 374,294 374,396 374,496 374,471 374,232 374,550 374,423 374,451 374,252 374,461 374,252 374,461 374,252 374,461 374,211 374,310 374,410 374,310 374,411 374,311 374,411 374,411 374,411 374,411 374,411 374,411 374,411 374,411 374,412 374,412 374,412 374,412 374,412 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Firelizer distributer, E. J. Corser. Fire paper, J. M. D. France. Fire extinguisher for railway cars, P. Smith. Fishing-reel, E. B. Porter. Filour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,523 374,524 374,396 374,471 374,232 374,457 374,429 374,461 374,455 374,461 374,211 374,244 374,211 374,450 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal Fence machine, A. J. Neal Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Fork. See Velocipede fork. Frame. See Bag or satchel frame. Forcing frame. Slate frame. Fruriace. See Plumber's or tinner's furnace Smoke consuming furnace. Furnace. See Plumber's or tinner's furnace Smoke consuming furnace. Furnace as See Plumber's or tinner's furnace Galvanic battery, F. J. Crouch. Galvanic battery, F. J. Crouch. Galvanic battery, F. J. Crouch. Gas governor, L. P. Blair. Gas lighter, electric, J. B. Entz. Gas pressure regulator and cut-off, O. J. McGann Gate. See Automatic gate. Bridge gate. Girder or arch, C. H. Rodemer. Governor, electric, W. H. Reynolds. Grain binder, W. M. Piatt. Grain binder, W. D. Arnett. Grain drill, W. D. Arnett. Grain drills, feed device for, T. R. Crane. Grate, F. H. De Guerre. Grate, F. H. De Guerre. Grate bar. W. E. Kelly Hair curler, J. Gregory Hair tonic, J. S. Moore. Hammock, T. H. Hartman. Handle, G. Fitzsimmons. Harness fastening loop, J. Detrick Harness mounting, E. R. Cahoone. | 374,492 374,523 374,523 374,523 374,294 374,496 374,471 374,252 374,455 374,461 374,279 374,461 374,279 374,461 374,279 374,461 374,279 374,461 374,279 374,465 374,271 374,375 374,285 374,485 374,287 374,486 374,287 374,486 374,489 374,489 374,489 374,489 374,489 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal Fence machine, A. J. Neal Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire excape, J. Fisher. Fire excape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,523 374,523 374,294 374,496 374,496 374,471 374,252 374,550 374,461 374,273 374,461 374,273 374,461 374,273 374,461 374,273 374,473 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer drills, hopper for, T. R. Crane. File, paper, J. M. D. France. Fire escape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Fork. See Velocipede fork. Frame. See Bag or satchel frame. Forcing frame, Slate frame. Fruriace. See Plumber's or tinner's furnace. Smoke consuming furnace. Furnace, R. D. Baldwin et al. Furnace door, W. Kearney. Galvanic battery, F. J. Crouch. Galvanic battery, F. J. Crouch. Galvanic battery, F. J. Crouch. Gas governor, L. P. Blair. Gas lighter, electric, J. B. Entz. Gas pressure regulator and cut-off, O. J. McGann Gate. See Automatic gate. Bridge gate. Girder or arch, C. H. Rodemer. Governor, electric, W. H. Reynolds. Grain binder, W. M. Piatt. Grain binder, W. M. Piatt. Grain binder, W. M. Piatt. Grain binder, W. D. Arnett. Grain drills, feed device for, T. R. Crane. Grate, F. H. De Guerre. Grate bar. W. E. Kelly. Hair curler, J. Gregory. Hair tonic, J. S. Moore. Hammock, T. H. Hartman. Handle, G. Fitzsimmons. Harness mounting, E. R. Cahoone. Harn | 374,492 374,523 374,523 374,294 374,496 374,471 374,456 374,471 374,457 374,279 374,461 374,471 374,455 574,467 374,211 374,451 374,470 374,471 374,472 374,472 374,472 374,473 374,473 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Firelizer distributer, E. J. Corser. Fire arms, telescopic sight for, R. C. Rice. Fire excinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Fronk. Ese Velocipede fork. Frame. See Bag or satchel frame. Forcing frame, Slate frame. Fruit picker, S. Shroyer. Frunace. See Plumber's or tinner's furnace Smoke consuming furnace. Furnace, R. D. Baldwin et al. Furnace door, W. Kearney. Galvanic battery, F. J. Crouch. Galvanic battery, H. E. Waite. Gas governor, L. P. Blair. Gas lighter, electric, J. B. Entz. Gas pressure regulator and cut-off, O. J. McGann Gate. See Automatic gate. Bridge gate. Girder or arch, C. H. Rodemer. Governor, electric, W. H. Reynolds. Grain binder, W. M. Piatt. Grain binder, G. H. Spaulding Grain binder, J. Gregory Hair tonic, J. S. Moore Hammock, T. H. Hartman. Handle, G. Fitzsimmons. Harness fastening loop, J. Detrick Harness mounting, E. R. Cahoone. Harness mounting, E. R. Cahoone. Harness neck pad, J. W. Johnson Harvesters, sheaf discharger for grain binding M. M. Hooton. Hat pouncing tool, Taylor & Scovill. Hatchways, means for operating elevator, F. E. Fasset. Hay sling, J. Law. Header and thrasher, combined steam, traction, S. Berry. | 374,492 374,523 374,523 374,294 374,496 374,471 374,456 374,471 374,457 374,427 374,467 374,427 374,458 374,471 374,459 374,471 374,470 374,471 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew. Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Firelizer distributer, E. J. Corser. Fire arms, telescopic sight for, R. C. Rice. Fire extinguisher for railway cars, P. Smith. Fishing-reel, E. B. Porter. Filour bolt, O. M. Morse. Flour bolt, O. M. Morse. Flour bolt, Smith & Cochrane | 374,492 374,523 374,294 374,396 374,396 374,471 374,232 374,450 374,461 374,461 374,462 374,461 374,262 374,461 374,262 374,261 374,471 374,271 374,489 374,461 374,473 374,471 |
| Engraving machine, Ourdan & Kolb. Envelope machine, O. E. Davidson. Evener coupling for vehicle poles, W. J. Edwards Exercising machine, R. Reach Expansion joint, J. N. Pew Eyeglasses, manufacture of blanks for, H. Lenfant. Fare box, G. H. Goodrich. Faucet apparatus, W. A. Babcock Fence machine, A. J. Neal. Fence machine, A. J. Neal. Fence machine, J. C. Riddle. Fence posts, manufacture of, J. W. Griswold. Fences, staypiece or guard for wire, S. F. Duncan Fertilizer distributer, E. J. Corser. Fertilizer distributer, E. J. Corser. Fieli, paper, J. M. D. France. Fire exesape, J. Fisher. Fire extinguisher for railway cars, P. Smith. Fishing reel, E. B. Porter. Flour bolt, O. M. Morse. Flour bolt, O. M. Morse. Froncing frame, J. Siem. Fork. See Velocipede fork. Frame. See Bag or satchel frame. Forcing frame. Slate frame. Fruit picker, S. Shroyer. Frunace, R. D. Baldwin et al. Furnace door, W. Kearney. Galvanic battery, H. E. Waite. Gas governor, L. P. Blair. Gas lighter, electric, J. B. Entz. Gas pressure regulator and cut-off, O. J. McGann Gate. See Automatic gate. Bridge gate. Grider or arch, C. H. Rodemer. Governor, electric, W. H. Reynolds. Grain binders, trip mechanism for, J. P. Bullock Grain binder, G. H. Spaulding. Grain binders, trip mechanism for, J. P. Bullock Grain drill, W. D. Arnett. Grain drills, feed device for, T. R. Crane. Grate, F. H. De Guerre. Grate bar. W. E. Kelly Hair curler, J. Gregory Hair tonic, J. S. Moore. Hammock, T. H. Hartman. Handle, G. Fitzsinmons. Harness fastening loop, J. Detrick Harness mounting, E. R. Cahoone. Hammock, T. H. Hartman. Handle, G. Fitzsinmons. Harness fastening loop, J. Detrick Harness mounting, E. R. Cahoone. Harness meck pad, J. W. Johnson. Harvesters, sheaf discharger for grain binding M. M. Hooton. Hat pouncing tool, Taylor & Scovill. Hatchways, means for operating elevator, F. E. Fassett. Hay sling, J. Law. Header and thrasher, combined steam, traction, S. Berry. Heat, apparatus for generating, W. W. Dashiell, | 374,492 374,523 374,294 374,296 374,396 374,471 374,232 374,450 374,461 374,252 374,461 374,262 374,461 374,262 374,261 374,261 374,261 374,470 374,480 374,481 |