oted at their rear ends to the axle, and provided centrally and to one side of its center with points for the two horse team and at one side of the center for a three horse team.

GATE LATCH.—Philip T. Rapson, Bad Axe, Mich. This is a self-locking latch which permits the gate to be swung toward either side of the feuce, and when in closed adjustment relieves the hinges from strain. On a back plate secured to the end rail of the gate is pivoted a lock plate with projecting detent pins, the locking plate having an arched top edge with a center notch, and two oppositely curved limbs at its lower edge formed with a center notch, while a check stud at its rear engages the pins on the back plate and an ear on its front face, a bolt tripped by a spring-pressed lever being mounted to slide above the locking plate. The device is of a simple, novel, and efficient charac-

LITHOGRAPHIC PLATE.—Franklin F. Haggenmuller, New York City. 'This is a plate made of zinc, type metal, aluminum, or other metal, or of celluloid, gelatine, etc., and subjected to an embossing process to form on one side a printing stipple ready for the artist to work on, the stipple being uniform, to be readily worked on with the lithographic crayon to produce the desired picture. The improved plate may be very cheaply manufactured, and is intended to take the place of the lithographic stone now generally used.

GLOVE PACKAGE HOLDER.-Richard H. Moore, Great Barrington, Mass. This holder consists of two independent or detached strips or splints to receive the gloves, a spring jaw clamp or clip being placed on across the splints to hold the gloves between them. The improvement is designed to do away with the present inconvenient bindings for glove packages. affording spring binders or cases to hold the gloves in good condition and prevent their becoming shop-worn.

WICK RAISER FOR LAMP BURNERS.-Charles Pabst, Philadelphia, Pa. This is an improvement on a former patented invention of the same inventor, providing a simple and cheap attachment for clevating and depressing a lampwick in a reliable manner. It consists of two parallel limbs, on the ends of which are picker points passing through slots in the wick tube, a pivoted dog on one of the limbs having a hook shoulder interlocking with the edge of an aperture in the burner body through which the limbs and dog are inserted.

METALLIC RIPRAP.—Duncan T. McIntyre, Mattoon, Ill. A practical sheet piling, to protect the banks, shores, and beaches of rivers and other bodies of water from washing or being cut out, is provided by this invention. It consists of inclined metallic sheets resting against the face of the bank, the sheets having rearwardly extending lips punched through from the outer side of the plates, their vertical meeting edges interlocking and being formed into posts at the rear of the structure, the posts being embedded in the bank and thereby avoiding the use of separate

URINAL ATTACHMENT. — George Schoen, New York City. This device comprises a framto be received in the bowl and a strainer movably held to the frame, facilitating cleaning and providing for properly holding soap or other disinfectant or detergent.

Note.-Copies of any of the above patents will be furnished by Munn & Co., for 25 cents each. Please send name of the patentee, title of invention, and date of this paper.

#### NEW BOOKS AND PUBLICATIONS.

THE ROYAL ROAD TO BEAUTY, HEALTH, AND HIGHER DEVELOPMENT. By Carrica Le Favre. New York: Fow-ler, Wells & Co. 1892. Pp. 85. Price 25 cents.

This is a little tract devoted to vegetarianism, a subject of interest. Many of us, on ethical principles would desire to be vegetarians, and this plea for it is perhaps something which should be welcomed by us on general principles.

MANNERS AND MONUMENTS OF PREHISTORIC PEOPLES. By the Marquis de Nadaillac. Translated by Nancy Bell (N. D'Anvers). New York and London: G. P. Putnam's Sons. 1892, Pp. xi, 412. Price \$3.

This very elegant work brings the subject of anthropology well up to date, as regards its applications to extinct nations. The many finds recently made in different countries of the world are described, with numerous illustrations, some very curious, such as the illustration of the trepanned historic skull in which the appearance of the bone reveals the fact that one trepanning had been done during life and others, presumably for the obtaining of amulets, had been done after death Fishes and fishing and efforts in navigation find adequate treatment, as well as the other subjects more generally written of.

REPORT OF THE COMMISSIONERS OF FISH AND FISHERIES FOR 1888. Washington, D. C. 1892. 8vo. Pp.

This report contains some very interesting details of the work of the department for the year. The total distribution of eggs, fry and yearlings for the year ending June 30, 1889, amounted to 322,795,830, which is a very creditable showing considering that the appropriations only aggregated \$257,000, and this money supports all the stations and the vessels of the department, the Albatross, Fish Hawk and Grampus. The department is a very useful one and has a world-wide reputation.

SHORT TALKS ON CHARACTER BUILDING. By G. T. Howerton, M.S. Illustrated. New York: Fowler & Wells Company. 1892. Pp. iv. 227. Price \$1. No index.

This contribution to practical life, with numerou illustrations and short pithy chapters certainly abounds

in good advice-advice which, whatever our individual opinions may be, would, if followed, in many cases be attachment of the pole, which is detachably connected productive of much good. The style of illustration, in with the circle or plate, being connected centrally for a many cases, presents, on the same page, contrasting many cases, presents, on the same page, contrasting pictures of life, with considerable effect in some instances.

LEAVES AND FLOWERS; OR, PLANT STUDIES FOR YOUNG READERS. By Mary A. Spear. Boston, U. S. A.: D. C. Heath & Co. 1892. Pp. ix, 108 Price 30 cents. No index.

This charming work is designed to make the study of botany pleasant to the young, The work, with numerous illustrations and exact botanical information, is written throughout, as nearly as possible, in the form of a story, and, although it is termed plant studies, it really takes the aspect of being rather play than work It shows how pleasant the path of learning is for the rising generation.

THE FLOOD, THE FACT OF HISTORY. chronological vindication, and a guarantee of the second advent. By Charles A. L. Totten. New Haven, Conn.: The Our Race Publishing Company. 1892. Pp. xxii, 315. Company. 1 Price 75 cents.

Professor Totten, or Yale College, in this work as last has his say at full length as to bibliological chronology. To say the least, the work is a curious expression of the author's beliefs, and puts into the form of a book the ideas which won for him such notoriety during the last year.

SIMPLE LESSONS IN DRAWING FOR THE SHOP. By Orville H. Reynolds. Published by Debs Publishing Company, Terre Haute, Indiana. Pp. 83. Price \$1.

This little work is for the practical draughtsman and gives very good elementary hints as to simple drawing. The practical aspect of the subject is well preserved and the book will, no doubt, be welcomed by many who are beginning their way to acquire the draughtsman's

Any of the above books may be purchased through this office. Send for new book catalogue just published. Munn & Co., 361 Broadway, New York.

## SCIENTIFIC AMERICAN

# BUILDING EDITION

DECEMBER NUMBER.-(No. 86.)

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- 1. Elegant plate in colors, showing a very attractive dwelling at Warberth Park, Pa., erected at a cost of \$4,150 complete. Floor plans and two perspective elevations. John Robinson, architect, Germantown, Pa.
- 2. Plate in colors showing a residence at Springfield, Mass, Perspective views and floor plans, Cost \$12,000 complete. Mr. Guy Kirkham, architect, Springfield, Mass. An excellent design.
- 3. A colonial residence at Newton Highlands, Mass. Perspective view and floor plans. J. W. Beak, architect, Boston. A picturesque design.
- 4. A pretty cottage erected at Bridgeport, Conn., at a cost of \$1,600. Floor plans, perspective, etc. A. M. Jenks, architect, Bridgeport, Conn.
- 5. A dwelling house erected at Wafberth Park, Pa., at a cost of \$4,478 complete. Mr. C. W. Macfarlane, architect, same place. A model design. Floor plans and perspective.
- A "Queen Anne" cottage erected at St. David's, Pa., at a cost of \$5,500 complete. A unique design. Perspective elevation and floor plans. F. L. & W. L. Price, architects, Philadelphia.
- 7. A residence in the "Colonial" style of architecture erected at St. David's. Pa. Perspective view and floor plans. Cost complete \$5,800. F. L. & W. L. Price, Philadelphia, architects.
- A residence on Golden Hill, at Bridgeport, Conn. Perspective elevation and floor plans. D. R. Brown, architect, New Haven, Conn. An excellent design.
- 9. A residence recently erected at Springfield, Mass. Floor plans and perspective elevation. \$2,490 complete. Mr. A. B. Root, architect, same place. A pleasing design.
- 10. Picture of Aldworth, Sussex, the home of Lord Tennyson. Portrait of Lord Tennyson.
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- 14. Miscellaneous contents; Some of the merits.-Water tight cellars.—Read this with care.—Improve your property.—How to catch contracts.—The education of customers.- Erection of additional buildings .- Concave sounding boards .- A high railway bridge.-A complete steel house front. illustrated.-An improved woodworking machine.-Finely carved woodwork, illustrated.-Steam and hot water radiators, illustrated .-Plaster of Paris .- Disinfection by means of sulphur .- A novel newspaper building .-- Fine steel ceiling in an art gallery.

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The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4; Munn & Co., publishers, 361 Broadway, N. Y.

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The Engineering Record, the recognized authority on municipal and building engineering, has recently been enlarged by the addition of a department in which notable industrial plants are regularly described and illustrated, the steam and power plants being a conspicu-ous feature. Recent publications include the great Ivorydale plant of Messrs, Proctor & Gamble, described in 23 columns and illustrated by 57 drawings. The steam plant at Ivorydale is separately treated in 13 column and 31 drawings. The new foundry of Henry R. Worthington, at Elizabethport, N. J., 16 columns, 26 illustrations. National Meter Company's foundry and brass finishing stop, Brooklyn, 13 columns, 23 illustrations. Niagara Power Plant (now in process of publication), 6 columns, 6 illustrations. Steam power plant of the Dwight Manufacturing Co., Chicopee, Mass., 9 columns, 7 illustrations. Machinery Hall steam power plant, 8 columns, 6 illustrations. Published Saturdays. 12cents a copy. The Engineering Record, 277 Pearl St., New



#### HINTS TO CORRESPONDENTS.

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price.

Winerals sent for examination should be distinctly marked or labeled.

(4609) I. H. F. asks: What glue, cement or paste is used in covering iron pulleys with paper to prevent the belt from slipping? A. Pulleys that have been in use that are to be papered should be made clean and free from grease by scratching with a file over their entire surface, cleaning with a caustic soda wash and then pickle the surface with hydrochloric acid and water equal parts. Wash with hot water and dry. When its surface will be in the best condition to receive the glue. Use the best light brown glue, which may be tested by its great strength and elasticity when breaking a piece in the hands. Make up the giue in the usual way and when ready mix a tablespoonful of strong decoction of oak bark or tannic acid, hot, to the glue and thoroughly mix. The strongest hardware paper should be used, cut and prepared by previously moistening, so as to allow of it drawing to fit the crown of the pulley. The pulley being slightly warmed, so as not to chill the glue, and temporarily hung, proceed

to brush the glue on its surface, putting the paper on at once, drawing it tightly to expel any air and overlapping with glue and paper, until the proper thickness is obtained. To make the best job requires three persons. Upon stretching the paper on firmly depends its best

(4610) J. B. asks: What kind and how large a battery is necessary to heat a No. 36 platinnm wire? I want to explode a cannon with it. A. One cell of Grenet battery will answer your purpose,

(4611) A. J. W. - Stamp ink is very lifficult to remove. Alcohol is the best medium.

(4612) E. R.—In the case of a perpetual motion the Patent Office requires that a working er ample shall be produced.

(4613) W. R. asks: In the making of the large plunge battery in "Experimental Science calls for paraffine. Would beeswax answer as well?

(4614) C. E. L.-As to bringing your matter before the government, we cannot advise without knowing what it is.

(4615) W. G. T. asks for the composition of a cement for incandescent lamp filaments. A. The following is from "Scientific American Cyclopedia of Receipts, Notes and Queries." Take 100 grains carburet of iron (Dixon's stove polish), grind dry to a fine powder, add 10 grains lump sugar, mix well in a mortar, then add 40 grains gold bronze, mix again, then add sufficient water to make a thick paste, and apply it to the junction between the carbon and the platinum wire, allow it to stand for twenty minutes or so, then burn the joint to a clerry red heat by a fine gas flame.

(4616) C. B. A. asks: What is the reaction when oxalic acid ( $C_2H_2O_4$ ) is made by the action of nitric acid (HnO<sub>3</sub>) on sugar ( $C_{12}H_{22}O_{11}$ )? A.  $C_{12}H_{22}O_{11}+O_{18}=6C_2H_2O_4+5H_2O$ . The  $O_{18}$  is derived from the HnO<sub>3</sub>; thus 12HNO<sub>3</sub>=12NO+ $6H_2O$ +18O. Thus we may write the reaction as follows:  $C_{12}H_{22}O_{11}$  +  $12HNO_3=6C_2H_2O_4+11H_2O+12NO_4$ 

#### TO INVENTORS.

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### INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

December 6, 1892,

#### AND EACH BEARING THAT DATE.

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

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Battery. See Galvanic battery. Bearing, roller, J. Gibbons. 487,89 Bearings, spring roll for roller, J. W. Hyatt. 487,83 Bed bottom, W. H. Scott. 487,43 Bed, folding, W. D. Snyder. 487,88 Bed spring, J. Monzel. 487,88 Bed spring, J. Monzel. 487,89 Beer cooler, J. F. Duffy. 487,48 Bell, electric, P. Wagner. 487,48 Bell, electric, P. Wagner. 487,89 Belts, idler for driving, Hall & Holmes. 487,89 Belts, dieler for driving, Hall & Holmes. 487,89 Belts, dieler for driving, Hall & Holmes. 487,89 Beverages, carbonating fermented, J. F. Wittemann. 487,48 Beverages, carbonating fermented, J. F. Wittemann. 487,48 Biotycle attachment, A. Martbens. 487,57 Bicycle stand, G. S. Crosby. 487,47 Biotycle stand, G. S. Crosby. 487,47 Biotycle stand, G. S. Crosby. 487,47 Biotter pad and ruler, combined, C. W. Chandler. 487,38 Boiler cleaner, steam, G. E. Trnax. 487,58 Boiler cleaner, steam, G. E. Trnax. 487,58 Boiler feeder, C. E. Van Auken. 487,38 Boiler indicator, steam, G. L. McDermott. 487,38 Boiler indicator, steam, G. L. McDermott. 487,38 Boring and screw driving machine, E. Finn. 487,48 Boring and screw driving machine, E. Finn. 487,48 Book bank account, H. J. Stirn. 487,48 Book or coph holder, B. Gardinier. 487,48 Bottles or similar vessels, device for closing, J. E. Watson. 487,49 Bottles or similar vessels, device for closing, J. E. Clerc. 487,89 Bottles or similar vessels, device for closing, J. E. Clerc. 50x. See Feed box. Letter box. Paper box. 50x See Fe	Barrel filler, K. Kiefer	487,531
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Bicycle attachment, A. Martbens	Bearing, roller, J. Gibbons	487,699
Bicycle attachment, A. Martbens	Bearings, spring roll for roller, J. W. Hyatt	487,530
Bicycle attachment, A. Martbens	Bed folding W D Snyder	487,685
Bicycle attachment, A. Martbens	Bed spring, J. Monzel.	487.289
Bicycle attachment, A. Martbens	Beer cooler, J. F. Duffy	487,405
Bicycle attachment, A. Martbens	Bell, electric, P. Wagner	487,437
Bicycle attachment, A. Martbens	Relts idler for driving Hall & Holmes	487 564
Bicycle attachment, A. Martbens	Bending press, S. Swartz	487,435
Bicycle attachment, A. Martbens	Beverages, carbonating fermented, J. F. Witte-	
Böller cleaner, steam, G. E. Trnax. 487,65 Boller feder, C. E. Van Auken. 487,65 Boller furnace, steam, J. V. Burke 487,65 Boller indicator, steam, G. L. McDermott. 487,65 Boller indicator, steam, G. L. McDermott. 487,65 Boring and screw driving machine, E. Finn. 487,44 Boring machine, S. A. Gould. 487,44 Book or copy holder, B. Gardinier. 487,65 Book or copy holder, B. Gardinier. 487,65 Book or sale slip, duplicating memorandum, W. Morton. 487,68 Bottle mould, T. W. Synnott. 487,88 Bottle corking machine, E. Ermold. 487,38 Bottle mould, T. W. Synnott. 487,88 Bottles or similar vessels, device for closing, J. E. (Perc. 487,50 Bottles, corking, C. Schroeder. 487,451, 487,451 Bottles, or similar vessels, device for closing, J. E. (Perc. 487,68 Bottles or similar vessels, device for closing, J. E. (Perc. 487,68 Box See Feed box. Letter box. Paper box. Box See Feed box. Letter box. Paper box. Box fastener, E. Dietz Box ild holder, A. D. Hoffman. 487,58 Box lid holder, A. D. Hoffman. 487,58 Brake beam, J. W. Baker (r). 11,22 Branding tool, J. R. Todd Brake adjuster, automatic, M. E. McKee. 487,63 Brick, paving, L. C. Turley Branding tool, J. R. Todd Brown or brush drilling apparatus, H. Besson. 487,63 Bridle, A. & L. Hasselbauer. 487,63 Bruche, harness, T. M. Guthrie. 487,64 Buckle, harness, T. M. Guthrie. 487,64 Buckle, harness, T. M. Guthrie. 487,64 Buckle, rein, W. C. Edge. 487,44 Buckle, rein, W. C. Edge. 487,44 Butter extractor, centrifugal, G. M. Anderson. 487,54 Butter extractor, centrifugal, G. M. Anderson. 487,64 Button, G. J. Capewell. 487,84 Button, G. J. Capewell. 487,88 Button, C. S. Franke. 887,82 Button of C. S. Franke. 887,82 Button of C. S. Franke. 887,82	mann.	487,342
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Bottle corking machine, E. Ermoid 487,88 Bottles attachment for varnish or similar, T. G. 487,50 Bottles, corking, C. Schroeder 487,51 Bottles or similar vessels, device for closing, J. E. Clerc. 487,85 Bottles or similar vessels, device for closing, J. E. Clerc. 487,85 Box See Feed box. Letter box. Paper box. Box See Feed box. Letter box. Paper box. Box Isascher, E. Dietz 487,68 Box lid holder, A. D. Hoffman. 687,68 Brake. See Automatic brake. Car brake. Carriage brake. Track brake. Brake adjuster, automatic, M. E. McKee. 487,68 Brake beam, J. W. Baker (f) 111,28 Branding tool, J. R. Todd Breech mechanism, rapid-fire, A. Mercer. 487,63 Brick, paving, L. C. Turley. 487,63 Brick, paving, L. C. Turley. 487,63 Brick, paving, L. C. Turley. 487,63 Brick paving, L. C. Turley. 487,63 Brush bridles, machine for the manufacture of paint, F. W. H. Weishaupt Buckle, harness, T. M. Guthrie. 487,64 Buckle, hitching, S. Burwell. 487,64 Buckle, rein, W. C. Edge. 487,64 Burner fastening, B. T. Steber Butter extractor, centrifugal, G. M. Anderson. 487,64 Button, G. J. Canewell. 487,64 Button, G. J. Canewell. 487,84 Button, G. J. Canewell. 487,84 Button, G. S. Franke. 847,84 Button setting machine, Merwin & Stirckler. 487,88	Boiler feeder, C. E. Van Anken	487.305
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Bottle corking machine, E. Ermoid 487,88 Bottles attachment for varnish or similar, T. G. 487,50 Bottles, corking, C. Schroeder 487,51 Bottles or similar vessels, device for closing, J. E. Clerc. 487,85 Bottles or similar vessels, device for closing, J. E. Clerc. 487,85 Box See Feed box. Letter box. Paper box. Box See Feed box. Letter box. Paper box. Box Isascher, E. Dietz 487,68 Box lid holder, A. D. Hoffman. 687,68 Brake. See Automatic brake. Car brake. Carriage brake. Track brake. Brake adjuster, automatic, M. E. McKee. 487,68 Brake beam, J. W. Baker (f) 111,28 Branding tool, J. R. Todd Breech mechanism, rapid-fire, A. Mercer. 487,63 Brick, paving, L. C. Turley. 487,63 Brick, paving, L. C. Turley. 487,63 Brick, paving, L. C. Turley. 487,63 Brick paving, L. C. Turley. 487,63 Brush bridles, machine for the manufacture of paint, F. W. H. Weishaupt Buckle, harness, T. M. Guthrie. 487,64 Buckle, hitching, S. Burwell. 487,64 Buckle, rein, W. C. Edge. 487,64 Burner fastening, B. T. Steber Butter extractor, centrifugal, G. M. Anderson. 487,64 Button, G. J. Canewell. 487,64 Button, G. J. Canewell. 487,84 Button, G. J. Canewell. 487,84 Button, G. S. Franke. 847,84 Button setting machine, Merwin & Stirckler. 487,88	Boiler indicator, steam, G. L. McDermott	487,634
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Bottles, corking, C. Schroeder	Morton Pottle corking machine F Frmeld	487,680
Bottles, corking, C. Schroeder	Bottle mould, T. W. Synnott.	487 498
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Brush bridles, machine for the manufacture of paint, F. W. H. Weishaupt.  Buckle and snap hook, combined, G. D. Hayes.  Buckle, harness, T. M. Guthrie.  487,32 Buckle, hitching, S. B. Burwell.  Buckle, ein, W. C. Edge.  847,47 Building covering, M. P. Schetzel.  847,48 Burner fastening, B. T. Steber.  Butter extractor, centrifugal, G. M. Anderson.  847,48 Button, G. J. Capewell.  847,38 Button, G. J. Capewell.  847,38 Button, G. J. Capewell.  847,38 Button, C. S. Franke.  Button setting machine, Merwin & Stirckler.  847,38 Button Set oil can.  Can lacquering machine, R. D. Hume.  847,29 Can. See Oil can.  Can brake, P. McMullen.  847,36 Car brake, W. N. Haring.  847,36 Car coupling, J. Bradford.  Car coupling, T. B. Brower.  847,26 Car coupling, T. B. Brower.	Broom or brush drilling apparatus, H. Besson	487,362
Buckle and snap hook combined, G. D. Hayes. 487,32 Buckle, harness, T. M. Guthrie. 487,61 Buckle, hitching, S. B. Burwell. 487,61 Buckle, rein, W. C. Edge. 487,45 Burler astening, B. T. Steber. 487,58 Burner fastening, B. T. Steber. 487,58 Butter extractor, centrifugal, G. M. Anderson. 487,31 Button, G. J. Canewell. 487,344, 487,34 Button setting machine, Merwin & Stirckler. 487,67 Camera tripod, J. Rodes. 487,67 Camera tripod, J. Rodes. 487,67 Can coupling, T. B. Griffin. 487,67 Car brake, P. McMullen. 487,67 Car brake, W. N. Haring. 487,67 Car coupling, J. Bradford. 487,24 Car coupling, T. B. Brower. 487,24 Car coupling, T. B. Brower. 487,24 Car coupling, T. B. Brower. 487,26 Car coupling, Comman & Denney. 487,22	Brush bridles, machine for the manufacture of	407 000
Buckle, harness, T. M. Guthrie.         487,81           Buckle, hitching, S. B. Burwell         487,81           Buckle, rein, W. C. Edge.         487,43           Bulding covering, M. P. Schetzel.         487,48           Burner fastening, B. T. Steber         487,68           Butter extractor, centrifugal, G. M. Anderson.         487,34           Button, G. J. Canewell         487,34           Button, C. S. Franke         487,38           Button setting machine, Merwin & Stirckler         487,38           Can. See Oil can.         487,28           Can. See Oil can.         487,28           Can Lacquering machine, R. D. Hume         487,58           Car brake, P. McMullen         487,65           Car brake, W. N. Haring         487,32           Car coupling, J. Bradford         487,24           Car coupling, T. B. Brower         487,26           Car coupling, T. B. Brower         487,22           Car coupling, T. B. Brower         487,22	Ruckle and even book combined G D Haves	487 325
Buckle, hitching, S. B. Burwell         457.44           Buckle, rein, W. C. Edge         467.47           Building covering, M. P. Schetzel         487.54           Butter extractor, centrifugal, G. M. Anderson         487.34           Button, G. J. Capewell         487.34           Button, C. S. Franke         487.34           Button of S. Franke         487.34           Button setting machine, Merwin & Stirckler         487.38           Camera tripod, J. Rodes         487.29           Can. See Oil can.         260 il can.           Can lacquering machine, R. D. Hume         487.56           Car brake, P. McMullen         487.66           Car brake, W. N. Haring         487.66           Car coupling, J. Bradford         487.24           Car coupling, T. B. Brower         487.26	Buckle, harness, T. M. Guthrie.	487,619
Buckle, rein, W. C. Edge.       487,34         Building covering, M. P. Schetzel.       487,58         Burner fastening, B. T. Steber.       487,68         Butter extractor, centrifugal, G. M. Anderson.       487,31         Button, G. J. Canewell.       487,344       487,34         Button setting machine.       487,67       487,67         Camera tripod, J. Rodes.       487,67         Can. See Oil can.       487,67       62         Cap attacher, C. H. Griffin.       487,67       62         Car brake, P. McMullen.       487,67       62         Car coupling, J. Bradford.       487,24         Car coupling, T. B. Brower.       487,24         Car coupling, T. B. Brower.       487,26         Car coupling, T. B. Brower.       487,22         Car coupling, Coffman & Denney.       487,22	Buckle, hitching, S. B. Burwell	487,415
Bulleting Covering, M. P. Schetzel. 487,48 Burner fastening, B. T. Steber. Butter extractor, centrifugal, G. M. Anderson. 487,45 Button, G. J. Capewell. 487,844, 487,34 Button, C. S. Franke. 487,87 Button setting machine, Merwin & Stirckler. 487,67 Cam See Oil can. 487,63 Can. See Oil can. 487,23 Can Log College College College Capework 487,68 Car brake, P. McMullen. 487,66 Car brake, W. N. Haring. 487,66 Car brake, W. N. Haring. 487,66 Car coupling, J. Bradford. 487,24 Car coupling, T. B. Brower. 487,66 Car coupling, T. B. Brower. 487,67 Car coupling, T. B. Car	Buckle, rein, W. C. Edge	487,474
Butter extractor, centrifugal, G. M. Anderson.       487,34         Button, G. J. Canewell.       487,344,487,34         Button, C. S. Franke.       487,38         Button setting machine, Merwin & Stirckler.       487,68         Camera tripod, J. Rodes.       487,29         Can. See Oil can.       487,20         Can pattacher, C. H. Griffin.       487,56         Car brake, P. McMullen.       487,68         Car brake, W. N. Haring.       487,35         Car coupling, J. Bradford.       487,62         Car coupling, T. B. Brower.       487,62         Car coupling, Coffman & Denney.       487,22	Burner fastening R T Steher	487,585
Button, G. J. Cańewell.       487,344       487,34         Button, C. S. Franke       487,38         Button setting machine, Merwin & Stirckler.       487,67         Camera tripod, J. Rodes.       487,67         Can, See Oil can.       487,67         Can bacquering machine, R. D. Hume.       487,67         Cap attacher, C. H. Griffin.       487,66         Car brake, P. McMullen.       487,67         Car brake, W. N. Haring.       487,24         Car coupling, T. B. Brower       487,26         Car coupling, T. B. Brower       487,26         Car coupling, T. B. Brower       487,27         Car coupling, Comman & Denney       487,22	Butter extractor, centrifugal, G. M. Anderson	487.316
Button, C. S. Franke.       487,87         Button setting machine, Merwin & Stirckler.       487,67         Camera tripod, J. Rodes.       487,29         Can. See Oil can.       487,29         Can lacquering machine, R. D. Hume.       487,57         Cap attacher, C. H. Griffin.       487,56         Car brake, P. McMullen.       487,68         Car brake, W. N. Haring.       487,20         Car coupling, J. Bradford.       487,24         Car coupling, T. B. Brower.       487,60         Car coupling, T. B. Brower.       487,20         Car coupling, Coffman & Denney.       487,22	Button, G. J. Capewell	487,345
Camera tripod, J. Rodes. 487,28 Can. See Oil can. Can lacquering machine, R. D. Hume. 487,57 Cap pattacher, C. H. Griffin. 487,56 Car brake, P. McMullen. 487,56 Car brake, W. N. Haring. 487,35 Car coupling, J. Bradford. 487,26 Car coupling, T. B. Brower. 487,66 Car coupling, T. B. Brower. 487,66 Car coupling, Coffman & Denney. 487,26	Button, C. S. Franke	487.389
Can. See Oil can.         847,57           Can lacquering machine R. D. Hume         487,57           Cap attacher, C. H. Griffin.         487,56           Car brake, P. McMullen         487,66           Car brake, W. N. Haring         487,38           Car coupling, J. Bradford         487,24           Car coupling, T. B. Brower         487,26           Car coupling, Coffman & Denney         487,22	Camera tripod J. Rodes	487 295
Can lacquering machine, R. D. Hume         487,57           Cap attacher, C. H. Griffin         487,66           Car brake, P. McMullen         487,66           Car brake, P. McMullen         487,38           Car coupling, J. Bradford         487,28           Car coupling, T. B. Brower         487,26           Car coupling, Coffman & Denney         487,26	Can. See Oil can.	201,400
Cap takeher, C. H. Griffin         487.56           Car brake, P. McMullen         487.66           Car brake, W. N. Haring         487.32           Car coupling, J. Bradford         487.23           Car coupling, T. B. Brower         487.62           Car coupling, Coffman & Denney         487.22	Can lacquering machine, R. D. Hume	487,571
Car brake, P. McMullen       487,68         Car brake, W. N. Haring       487,32         Car coupling, J. Bradford       487,24         Car coupling, T. B. Brower       487,62         Car coupling, T. B. Brower       487,26         Car coupling, Toffman & Denney       487,26	Cap attacher, C. H. Griffin	487.562
Car coupling, J. Brafford       487,24         Car coupling, T. B. Brower       487,66         Car coupling, Coffman & Denney       487,26	Car brake, W. N. Haring	487,681
Car coupling, T. B. Brower 487,65 Car coupling, Coffman & Denney 487,25	Car coupling, J. Bradford	487.243
Car coupling, Coffman & Denney	Car coupling, T. B. Brower	487,694
	Car coupling, Coffman & Denney	487,251