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 This is for our information and not for publication.

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

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

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NEW BOOKS AND PUBLICATIONS.

DESCRIPTION OF THE STAR CAMERA AT THE SYDNEY OBSERVATORY. AT THE SYDNEY OBSERVATORY.
Sydney: Published by authority of the Honorable the Minister for Public Instruction. 1892. Pp. 15.

A detailed series of plates with description of the photographic telescope at the Sydney, New South Wales, Observatory is the matter of the present book. A very handsome photogravure of the instrument as mounted serves as frontispiece. It is noted in the introduction that the mounting was made in the colony and it seems to be an excellent tribute to the mechanical abilities of the New South Wales engineers

A TREATISE ON HYGIENE AND PUBLIC HEALTH. Edited by Thomas Stevenson, M.D., F.R.C.P. Lond., and Shirley F. Murphy. Vol. I. Phila-delphia: P. Blakiston, Son & Co. 1892. Pp. xii, 1013. Price \$7.50.

The scope of this most exhaustive work, of which in this large volume but one half is presented us, covers an immense ground. It is quite impossible to review lished. Munn & Co., 361 Broadway, New York,

it adequately. Among the subjects treated are air, meteorology, water, food, clothing, the dwelling, the disposal of refuse, and other allied topics. Each one is given in a monograph, and to each monograph, in the contents, and in the text of the work itself, the author's name is given. A double-column index of 21 pages gives an example for authors and publishers of scientific books to follow.

ASKANA; OR, ALASKA IN DESCRIPTIVE AND LEGENDARY POEMS. By Professor Bushrod W. James, A.M., M.D. Philadelphia: Porter & Coates. 1892. Pp. 368.

Professor James, in this work, has, to a certain extent, abandoned science for poetry, and gives us a number of the legends of Alaska in the phrase of Hiawatha. It is stated that the author has taken the liberty of avoiding the tautology for which Hiawatha is remarkable. This statement is followed by the remark that "whether this slight innovation will be acceptable as an improvement or not, remains with its readers to decide." The work, we believe, is good enough to prove of wide interest, as it is elegantly printed and illustrated, though whether, even by avoiding tautology, it will be accepted as an improvement on Longfellow is doubtful.

INDUCTION COILS. A practical manual for amateur coil makers. By G. E. Bonney. With more than 100 illustrations. New York: Macmillan & Co. London: Whittaker & Co. 1892. Pp. 231. Price \$1.

This excellent work, in adequately treating this sub ject, in describing batteries of the type adapted for induction coils, in its physical notes and by its hints on repairs in general mainipulation, will be welcomed by many amateurs and even professionals. One chapter is devoted to some famous coils, among others the great Spottiswood, which, with reasonably small battery, gave a 42 inch spark without difficulty.

A TEXT BOOK OF EXPERIMENTAL EN-GINEERING. By Rolla C. Carpenter, M.S., C.E., M.M.E. New York: John Wiley & Sons. 1892. Pp. xx, 709. Price \$6.

This work is so thorough, carried out in such detail, and so thoroughly illustrated that any review of it which will give an idea of its scope and merits is out of the question here. Cornell University is one of the great American centers of mechanical engineering, and Professor Carpenter, the associate professor there of experimental engineering, has produced a book which seems to be an exponent of the work of the great American university. Numerous illustrations, many carried to a great detail, are introduced, illustrating the testing machines and other apparatus employed for carrying out the work described in the volume.

DESIGN AND PROSPECTUS FOR THE NA-TIONAL GALLERY OF HISTORY AND ART. By Franklin W. Smith. Offices of the Propaganda for the National Gallery, 1419 F Street, Washington, D. C. 4to. Pp. 112; 144 Il. Paper. 50 cents.

The general scope of this new movement has been indicated on page 228 of the issue of the SCIENTIFIC AMERICAN for October 8. Though this work bears the modest title of prospectus and is published at a merely nominal figure, still it is really a work of art. This book gives illustrations of the new design, views from the Pompeian house and from all the chief gal leries and museums of Europe. The views of the hotel Casa Monica and the Villa Zorayda in St. Augustine are very interesting, showing how concrete may for building purposes. This is of special interest, as the great design calls for concrete construction. Many illustrations are given of the proposed constructions for the courts of the great edifice. The book cannot fail to be of interest to all lovers of art and architecture, as well to friends of the new plan.

Poor's Directory of Railway Offi-CIALS AND MANUAL OF AMERICAN STREET RAILWAYS. New York: H. V. & H. W. Poor.

The latest edition of this most valuable reference book is just out, and comprises over 600 closely packed pages, the constant additions being made to the work rendering each successive issue more comprehensive than its predecessor. An entirely new feature of this edition is a "directory of directors," which fills a hundred pages, the directors thus catalogued including those managing banks, insurance companies, and general manufacturing and industrial enterprises, as well as railways. The statements of street railroads in the United States and Canada are now made very full. and a complete list is given of all railroads projected or now under construction in the country. The irformation thus afforded is of importance to inventors as well as to all manufacturers or dealers in railway materials. A list is also given of, railways and tramways of Mexico, Central and South America, with their officers, mileage, etc., while the enumeration of "private" railroads makes quite a list, including lumber, logging, mining roads, etc.

DAIRYING FOR PROFIT; OR, THE POOR MAN'S COW. By Mrs. E. M. Jones. New York: Orange Judd Co. Pp. 66. 30 cents.

Mrs. Jones proves her right to speak with authority on the subject discussed in this little book by the fact that she began, eighteen years ago, with two cows and a small village field, selling a few pounds of butter, of such excellence that she now has a market for and produces annually seven thousand pounds. All the details of professional dairs work are described, the difficulties likely to meet the beginner are explained, and one is also told how to choose a good cow and keep and feed her to the best advantage.

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Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lowering lack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Mail pouch releasing device, H. B. Hewitt. Measuring machine, lumber, T. Marcotte. Measuring machine, lumber, T. Marcotte. Metal by electricity, apparatus for refining, C. R. Fletcher. Metal plates, etc., apparatus for pickling and washing, G. Mesta. Metalic articles by electrolysis, apparatus for Metalic articles by electrolysis, apparatus for Metalic articles by electrolysis, apparatus for Metalic articles	484,432 484,436 484,577 484,436 484,567 484,635 484,645 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516 484,516
Lock, R. R. Ball. Lock, Moust, Jr., & Pratt. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and alarm, combination, R. Baumann. Lock and alarm, combination, R. Baumann. Lowering jack, A. P. Gould. Lubricator, See Journal lubricator. Lubricator, D. Best. Mail crane, R. A. Ogden. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Pohle. Measuring machine, lumber, T. Marcotte. Meast chopper, E. Ubrig. Meat tenderer an a ice pick and making the same. combined, J. W. Eshleman. Metal by electricity, apparatus for refining, C. R. Fletcher. Metal blates, etc., apparatus for pickling and washing, G. Mesta. Metal wheel, P. Gelin. Metallic atticles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing pleates meanifecture of, I. I.	484,392 484,443 484,577 484,587 484,587 484,635 484,729 484,525 484,525 484,555 484,518 484,518 484,518 484,518 484,518 484,518 484,518 484,518 484,518 484,518
Lock, R. R. Ball. Lock, Moust, Jr., & Pratt. Lock C. M. Stiner. Lock and alarm combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering jack, A. P. Gould. Lubricant, S. Heimann lubricator. Lubricator. See Journal lubricator. Lubricator, D. Best. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, lumber, T. Marcotte. Meast chopper, E. Ubrig. Meat tenderer an eige pick and making the same. combined, J. W. Eshleman. Mechanical movement, J. B. Price. Metal by electricity, apparatus for refining, C. R. Fletcher. Metal plates, etc., apparatus for pickling and washing, G. Mesta. Metal wheel, P. Gelin. Metallic facing plates, manufacture of, L. L. Sagendorph, Meter. See Grain meter. Water meter. Metellic facing plates, manufacture of, L. L. Meter. See Grain meter. Water meter.	484,432 484,452 484,577 484,535 484,635 484,641 484,641 484,555 484,525 484,525 484,546 484,546 484,546 484,546 484,546 484,546 484,546 484,546 484,546
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Lowering jack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator See Journal lubricator. Lubricator D. Best. Mail crane, R. A Ogden. Mail crane, R. A Ogden. Mail pouch releasing device, H. B. Hewitt. Meast choper, E. Ubrig. Meat tenderer and ice pick and making the same. combined, J. W. Sshleman. Mechanical movement, J. B. Price. Metal by electricity, apparatus for refining, C. R. Fletcher. Metal plates, etc., apparatus for pickling and washing, G. Mesta. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Middlings purifier, J. H. Goodaln. Milking machine, J. C. McCollum.	484,392 484,443 484,757 484,635 484,587 484,635 484,729 484,645 484,525 484,525 484,525 484,545 484,586 484,683 484,683 484,683 484,683 484,683
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lowering lack, A. P. Gould. Lubricator See Journal lubricator. Lubricator See Journal lubricator. Lubricator D. Best. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, Lumber, T. Marcotte. Measuring machine, Lumber, T. Marcotte. Metal by electricity, apparatus for refining, C. R. Fletcher, L. W. Esbleman. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic articles by electrolysis, apparatus for the manufacture of, L. S. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter, See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard. Milling machine, C. H. Phillips.	484,392 484,443 484,452 484,577 484,636 484,641 484,641 484,555 484,555 484,555 484,564 484,641 484,645 484,64
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lowering lack, A. P. Gould. Lubricator See Journal lubricator. Lubricator See Journal lubricator. Lubricator D. Best. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, Lumber, T. Marcotte. Measuring machine, Lumber, T. Marcotte. Metal by electricity, apparatus for refining, C. R. Fletcher, L. W. Esbleman. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic articles by electrolysis, apparatus for the manufacture of, L. S. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter, See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard. Milling machine, C. H. Phillips.	484,392 484,443 484,452 484,577 484,636 484,641 484,641 484,555 484,555 484,555 484,564 484,641 484,645 484,64
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lowering lack, A. P. Gould. Lubricator See Journal lubricator. Lubricator See Journal lubricator. Lubricator D. Best. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, Lumber, T. Marcotte. Measuring machine, Lumber, T. Marcotte. Metal by electricity, apparatus for refining, C. R. Fletcher, L. W. Esbleman. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic articles by electrolysis, apparatus for the manufacture of, L. S. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter, See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard. Milling machine, C. H. Phillips.	484,392 484,443 484,452 484,577 484,636 484,641 484,641 484,555 484,555 484,555 484,564 484,641 484,645 484,64
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lock	484,392 484,443 484,452 484,577 484,636 484,641 484,641 484,555 484,555 484,555 484,564 484,641 484,645 484,64
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering lack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Best. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, lumber, T. Marcotte. Measuring machine, lumber, T. Marcotte. Meat chopper, B. Lorig Meat have a proper see the same, combined, T. W. Eshleman Meat tender or and tee pick and making the same, combined, T. W. Eshleman Metanical movement, J. B. Price. Metal by electricity, apparatus for refining, C. R. Fletcher, Metal plates etc., apparatus for pickling and Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard Milking machine, J. C. McCollum. Milling machine, J. C. McCollum. Molite power, engine, J. R. Da Costa. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Wusser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutively, E. G. Bates.	484,392 484,484 484,587 484,587 484,587 484,587 484,588 484,58
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering lack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Best. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, lumber, T. Marcotte. Measuring machine, lumber, T. Marcotte. Meat chopper, B. Lorig Meat have a proper see the same, combined, T. W. Eshleman Meat tender or and tee pick and making the same, combined, T. W. Eshleman Metanical movement, J. B. Price. Metal by electricity, apparatus for refining, C. R. Fletcher, Metal plates etc., apparatus for pickling and Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard Milking machine, J. C. McCollum. Milling machine, J. C. McCollum. Molite power, engine, J. R. Da Costa. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Wusser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutively, E. G. Bates.	484,392,484,694,484,484,484,484,484,484,484,484,484,4
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering lack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Best. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Poble. Measuring machine, lumber, T. Marcotte. Measuring machine, lumber, T. Marcotte. Meat chopper, B. Lorig Meat have a proper see the same, combined, T. W. Eshleman Meat tender or and tee pick and making the same, combined, T. W. Eshleman Metanical movement, J. B. Price. Metal by electricity, apparatus for refining, C. R. Fletcher, Metal plates etc., apparatus for pickling and Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard Milking machine, J. C. McCollum. Milling machine, J. C. McCollum. Molite power, engine, J. R. Da Costa. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Wusser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutively, E. G. Bates.	484,382 484,484 484,587 484,58
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and L	484,382 484,484 484,587 484,58
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and alarm, C. G. Pould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. D. Best. Mail pouch releasing device, H. B. Hewitt. Matte from slag, separating, E. C. Pohle. Measuring machine, Lumber, T. Marcotte. Measuring machine, Lumber, T. Marcotte. Metal by electricity, apparatus for refining, C. R. Fletcher. Metal by electricity, apparatus for pickling and washing, G. Mesta. Metallic articles by electrolysis, apparatus for the manufactureof, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middlings purifier, J. H. Goodall. Milk tester, centrifugal, R. Stoddard. Milking machine, J. C. McCollum. Milling machine, J. C. McCollum. Milling machine, J. R. Phillips. Molten materials of different specific gravity, apparatus for separating, O. B. Peck. Mop wringer, J. B. Sweetland. Motive power, engine, J. R. Da Costa. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, machine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates, Nut lock, J. C. Brown. Nut lock, J. W. Pugh. Order holder, F. F. Austin. Order holder, F. F. Austin. Chapin. Packing material, package of corrugated, W. G. Chapin. Paint fiveryoof W. S. Hill	484,382 484,484 484,587 484,58
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lowering lack, A. P. Gould. Lubricant. See Journal lubricator. Lubricator D. Best Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Mail crane. R. A Ocsen. Mail pouch releasing device, H. B. Hewitt. Mail pouch releasing device, H. B. Hewitt. Matter from slag, separating, E. C. Poble. Measuring machine, L. W. Esbleman. Metal the development, J. B. Price. Metal by electricity, apparatus for refining, C. R. Fletcher. Metal by electricity, apparatus for pickling and Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middlings purifier, J. H. Goodal. Milk tester, centrifugal, R. Stoddard. Milking machine, J. C. McCollum. Milling machine, J. C. McCollum. Milling machine, J. B. Peck Moy wringer, J. B. Sweetland. Motive power, engine, J. R. Da Costa. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates, Numbering machine, C. M. Phillips.	484,382 484,484 484,587 484,58
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering jack, A. P. Gould. Lubricant. S. Heimann Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Best. Mail crane. R. A Orden. Mail pouch releasing device, H. B. Hewitt. Mail crane. R. A Orden. Mail pouch releasing device, H. B. Hewitt. Meastering machine, lumber. T. Marcotte. Measturing machine, lumber. T. Marcotte. Meast chopper. E. Ubrig. Meat tenderer and ice pick and making the same, combined, J. W. Sshleman. Mechanical movement, J. B. Price. Metal bylectricity, apparatus for refining, C. R. Fletcher. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middings purifier, J. H. Goodal. Milking machine, J. C. McCollum. Milling machine, C. H. Phillips. Molten materials of different specific gravity, apparatus for separating, O. B. Peck. Mop wringer, J. B. Sweetland. Motive power, engine, J. R. Da Costa. Multiple switch board system. C. E. Scribner. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates, Numbering machine, consecutive, E. G. Rates, Numbering machine, consecutive, E. G. Rates, Numbering sheet, S. Sherman. Order holder, F. F. Austin. Oven shield, baking, K. C. Munson. Packing goods, W. G. Chapin. Packing goods, W. G. Chapin. Patterns on Zinccoated plates, producing definite, Patterns on Zinccoated plates, producing definite,	484,382 484,484 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,587 484,68
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lo	484,824 484,434 484,537 484,537 484,537 484,537 484,537 484,532 484,53
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Lo	484,824 484,434 484,537 484,537 484,537 484,537 484,537 484,532 484,53
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lock and Latricant. Lock Lock L. C. Gold. Lubricant. S. Heimann Lubricator. See Journal lubricator. Lubricator. D. Best. Mail crane, R. A Ogden. Mail pouch releasing device, H. B. Hewitt. Mail crane, R. A Ogden. Mail pouch releasing device, H. B. Hewitt. Meastring machine, lumber, T. Marcotte Meast choper, E. Uprig. Meat tenderer and ice pick and making the same. combined, J. W. Sshleman. Mechanical movement, J. B. Price. Metal bjelectricity, apparatus for refining, C. R. Fletcher. Metal plates, etc., apparatus for pickling and washing, G. Mesta. Metal wheel, P. Gelin. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Middings purifier, J. Goodal. Milking machine, J. C. McCollum. Milling machine, C. H. Phillips. Molten materials of different specific gravity, apparatus for separating, O. B. Peck. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Rates, Numbering machine, consecutive, E. G. Rates, Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates, Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering checks, bonds, e	484,824 484,434 484,537 484,537 484,537 484,537 484,537 484,532 484,53
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock and alarm, combination, R. Baumann. Lowering jack, A. P. Gould. Lubricant, S. Heimann Lubricator, D. Best. Mail crane, R. A Orden. Mail pouch releasing device, H. B. Hewitt. Mail crane, R. A Orden. Mail pouch releasing device, H. B. Hewitt. Meastering machine, lumber, T. Marcotte Meast choper, E. Ubrig. Meat tenderer and ice pick and making the same, combined, J. W. Sahleman. Mechanical movement, J. B. Price. Metal bjelectricity, apparatus for refining, C. R. Fletcher. Metal plates, etc., apparatus for pickling and washing, G. Mesta. Metal wheel, P. Gelin. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph. Meter. See Grain meter. Water meter. Metallic facing plates, manufacture of, L. L. Sagendorph. Milking machine, J. C. McCollum. Milking machine, C. H. Phillips. Molten materials of different specific gravity, apparatus for separating, O. B. Peck. Moy wringer, J. B. Sweetland. Motive power, engine, J. R. Da Costa. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates Numbering machine, C. Chapin. Packing goods, W. G. Chapin. Packing goods, W. G. Chapin. Packing goods, W. G. Chapin. Packing material, package of corrugated, W. G. Chapin. Pattern. See Trousers pattern. Pen, drawing and stippling, J. Phillips. Chen, fountain, Peck & O'Meara. Ponongraph, T. A. Edison. Photographic plate holder, A. M. Pierce Piano forte, J. W. Brackett Piano forte, J. W. Brackett Piano	484,824 484,434 484,537 484,53
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering jack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Best. Mail crane, R. A Orden. Mail opother leleasing device, H. B. Hewitt. Mail crane, R. A Orden. Mail opother leleasing device, H. B. Hewitt. Meastering machine, lumber, T. Marcotte. Measturing machine, lumber, T. Marcotte. Measturing machine, lumber, T. Marcotte. Meat thenderer and ice pick and making the same. combined, J. W. Bshleman. Mechanical movement, J. B. Price. Metal bletes, etc., apparatus for refining, C. B. Fletcher. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph Meter. See Grain meter. Water meter. Middings purifier, J. H. Goodall. Milk tester, centrifugal, R. Stoddard Milking machine, C. H. Phillips. Molten materials of different specific gravity, apparatus for separating, J. B. Poc. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates, Nut lock, J. W. Pugh. Order holder, F. F. Austin. Oven shield, baking, K. C. Munson Packing goods, W. G. Chapin. Packing goods, W. G. Chapin. Packing material, package of corrugated, W. G. Chapin. Packing noon zinc coated plates, producing definite, W. B. Spear. Patterns on zinc coated plates, producing definite, P. M. Spear. Pen, drawing and stippling, J. Phillips. Pen, frawing and stippling, J. Phillips. Pen, frawing and stippling, J. Phillips. Pen, frawing and stippling, J. Phillips. Pen, producing definite, P. F. Austin. Phonograph reproducer, T. A. Edison. Phonograph terting tool. T. A. Edison. Phonograph repro	484,392 484,484 484,587 484,58
Lock, R. R. Ball. Lock, Mount, Jr., & Pratt. Lock, C. M. Stiner. Lock C. M. Stiner. Lock and alarm, combination, R. Baumann. Log carrier track, A. T. Kelliher. Lowering jack, A. P. Gould. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. See Journal lubricator. Lubricator. Best. Mail crane, R. A Orden. Mail opother leleasing device, H. B. Hewitt. Mail crane, R. A Orden. Mail opother leleasing device, H. B. Hewitt. Meastering machine, lumber, T. Marcotte. Measturing machine, lumber, T. Marcotte. Measturing machine, lumber, T. Marcotte. Meat thenderer and ice pick and making the same. combined, J. W. Bshleman. Mechanical movement, J. B. Price. Metal bletes, etc., apparatus for refining, C. B. Fletcher. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic articles by electrolysis, apparatus for the manufacture of, E. S. Elmore. Metallic facing plates, manufacture of, L. L. Sagendorph Meter. See Grain meter. Water meter. Middings purifier, J. H. Goodall. Milk tester, centrifugal, R. Stoddard Milking machine, C. H. Phillips. Molten materials of different specific gravity, apparatus for separating, J. B. Poc. Multiple switch board system, C. E. Scribner. Music rack for musical instrument cases, J. A. Weser. Numbering checks, bonds, etc., in sheets, ma- chine for consecutively, E. G. Bates. Numbering machine, consecutive, E. G. Rates, Nut lock, J. W. Pugh. Order holder, F. F. Austin. Oven shield, baking, K. C. Munson Packing goods, W. G. Chapin. Packing goods, W. G. Chapin. Packing material, package of corrugated, W. G. Chapin. Packing noon zinc coated plates, producing definite, W. B. Spear. Patterns on zinc coated plates, producing definite, P. M. Spear. Pen, drawing and stippling, J. Phillips. Pen, frawing and stippling, J. Phillips. Pen, frawing and stippling, J. Phillips. Pen, frawing and stippling, J. Phillips. Pen, producing definite, P. F. Austin. Phonograph reproducer, T. A. Edison. Phonograph terting tool. T. A. Edison. Phonograph repro	484,392 484,484 484,587 484,58
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