

BIBLIOGRAFÍA

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SUMARIO.—Utilización del gas natural de Kansas. Pozo de alta presión de gas natural perforado en Kansas. Limpieza de la lana por medio de la nafta. Cuidados que deben darse a las víctimas de la electricidad. Filtración de las aguas potables. Trasmisión por medio de correas entre dos árboles a 90 grados. Un gimnasio escolástico. El nuevo vapor mercante americano *St. Paul*. La madera más útil. Nuevo anti-séptico. Un accidente ferroviario. Fijación del yodo por el almidón. La Esposición de Atlanta. El Pabellón de Costa Rica. La sala de estatuas. El palacio de la electricidad. Macetas colgantes de Fitzgerald. Purificación química del almidón. Los animales que no deben destruirse. Una torre colosal de oficinas. La forma de menor resistencia. Alimentación de las calderas quemadas. Maquinaria de traspasar el carbón de los wagones a los buques. La arqueología del porvenir. Vidriera de secciones para cintas. El torpedero ruso *Sokol*. Civilización i sistema nervioso. La fabricación de macarrones. Las corridas de coches automotores en la ciudad de Chicago. El electróbata de Morris i Salom. El monóciclo de Benz. Producto refractario infusible. La industria de la laca. Instrumentos i aparatos para desprender la laca. Laca de Madagascar. Lavado de la laca pisoteada por los naturales para limpiarla mejor. Purificación de la laca. Preparación de las lacas de color i los

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SUMARIO.—El vapor *Mackay-Bennett* para tender i reparar los cables sub-marinos. El papagayo carnívoro de la Nueva Zelandia. Los cables sub-marinos i sus reparaciones. Aparato i utensilios de soldar los empalmes. Instrumentos i medios de reparar las averías del cable. Indicador eléctrico del nivel del agua de los depósitos. Transmisor del indicador de niveles de agua. Vista jeneral del aparato transmisor. Aparato registrador. La exhibicion del acetileno en la Esposicion de Atlanta. Seccion del aparato para la produccion del acetileno. Disposiciones para encender los faroles del gas sin abrirlos. Efecto social de los tranvías eléctricos. La industria de muestras metálicas. Un regador para las vias eléctricas i sus calles. El piano eléctrico automático. Refracciones anormales. Aparato portátil de hierro charolado para el revelado fotográfico. Mesa de madera para revelar. Los críticos del arte. Separacion eléctrica del oro, del cobre i de la plata. Palacio de las Bellas Artes en la Esposicion de Atlanta. Palacio de la Agricultura en la Esposicion de Atlanta. La esterilizacion de los aceites. La manufactura de la grasa neutra para lubricar. Un puente de árboles. Recaldeo de los metales en fusion por vía eléctrica. Las campanas tubulares. Una línea de espresos eléctricos. La fantasmagoría científica. El antro de las fantasmas. Plano del antro. Refrijerador del agua de condensacion. La mayor profundidad del Pacífico. Las lámparas eléctricas para efectos de luz en el escenario. Lámparas eléctricas de

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SUMARIO.—Les mines d'or du Transvaal: Districts du Witwatersrand, d'Heidelberg et de Klerksdorp; par M. L. DELAUNAY. Bulletin. Production minérale de l'Australasie en 1893. Production minérale des colonies anglaises de l'Afrique en 1893. Statistique de l'industrie minérale de la Bavière en 1894.

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(Núm. 1179. Enero 4)

SUMARIO.—Machine à calculer, G. TISSANDIER. Le lac d'asphalte de «la Bréa», CH. MARSILLON. Les trams-ways à fortes déclivités, G. PELLISSIER. Comète de Swift, J. VINOT. Le centenaire de l'Institut, ERNEST MAINDRON. Une victoire des moustiques, D. B. Une nouvelle loi d'acoustique, ALBERT LAVIGNAC. Statistique des tremblements de terre, X. WEST. Chronique. L'électricité atmosphérique au sommet de la Tour Eiffel. La science pratique, S. M. *Nouvelles scientifiques* (N. 5). La semaine. Informations. Boîte aux lettres. Petites inventions. Bibliographie. Recettes et procédés utiles.

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SUMARIO.—Panoramas photographiques, X., ingénieur. Horloges et montres solaires au Japon, PLANCHON. Collection de dessins, E. T. HAMY. Tremblement de

terre en Normandie du 6 Décembre 1895. Plateau du Sidobre (Tern), HENRI GAU. L'emploi du verre en électricité, J. L. Expédition polaire de M. Andrée, W. DE F. Le Cinématographe à Paris, E. H. La grotte du Mas-d'Azil, H. COUPIN. Une voiture d'inspection sur les chemins de fer américains, DANIEL BELLET. Académie des sciences, CH. DE VILLEDEUIL. Photographie en ballon. GASTON TISSANDIER. *Nouvelles scientifiques* (numéro 6). Hygiène et santé. Informations. Boîte aux lettres. Petites inventions.

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SUMARIO.—Les rayons X., CH. ED. GUILLAUME. Le centenaire de l'Institut, ERNEST MAINDRON. Le chemin de fer Transsibérien, W. DE F. Mesure de la dureté des corps fondée sur l'emploi du microscope. La consommation des machines à vapeur, J. L. Les pierres de tête, DR. A. CARTAZ. Les coups de feu de chaudières, GUSTAVE GAUTHIER. Téléphonie militaire, G. L. PESCE. Chronique. Académie des Sciences, séance du 27 Janvier 1896, CH. DE VILLEDEUIL. La science au théâtre, CAROLUS KARL. *Nouvelles Scientifiques* (N. 9). La semaine. Informations. Boîte aux lettres. Petites inventions. Recettes et procédés utiles.

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SUMARIO.—Recherches récentes sur la propagation des sons, CH. ED. GUILLAUME. La circulation monétaire en 1895, E. H. L'électricité au Japon, J. L. Les glosomètres, A. L. CLÉMENT. Le choix rationnel du développement d'une bicyclette, E. HOSPITALIER. Un plan incliné pour bateaux au seizième siècle, E. RICHON. La lumination, CH. ED. GUILLAUME. La rivière souterraine de Midroï (Ardèche), DR. PAUL RAYMOND. Chronique. Académie des Sciences, séance du 10 Février 1896, CH. DE VILLEDEUIL. Le rire du chien, V^{TE} D'AIGLUN. *Nouvelles Scientifiques* (N. 11). La semaine. Informations. Boîte aux lettres. Petites inventions. Cours et conférences. Recettes et procédés utiles.

Le Génie Civil. Tome XXVIII

(Núm. 10. Enero 4)

SUMARIO.—Le canal de Harlem entre l'Hudson et l'East-River (New-York), A. DUMAS. L'accroissement de la vitesse des trains express en France, RENÉ VARENNE. L'assainissement de la ville de Berlin (planche X). Expériences comparatives sur la résistance des routes, entreprises par l'Association Autrichienne des Ingénieurs et Architectes (suite et fin), C. VOIRON. Fabrication du gaz par le procédé Bowne. Distillation d'eau a bord d'un navire. Construction de chemins de fer au Japon. Les locomotives électriques américaines. Nouveau service

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SUMARIO.—Ateliers de Baldwin pour la construction des locomotives à Philadelphie. La perspective des Invalides et les Champs-Élysées, EUGÈNE HENARD. Les croiseurs de courses des États-Unis. La *Columbia* et le *Minneapolis* (planche XIV), DUCLERCQ. L'affût à éclipse du capitaine Gordon de l'artillerie américaine. La loi des boissons alcooliques, ALF. RICHE. Les noteurs légers. Moteur à pétrole Penington de 5^{kg}.6 par cheval, H. DE LA VALETTE. La photographie à travers les corps opaques, EUGÈNE BABIER. Procédé de dosage du charbon dans les aciers. Laminoir pour l'aluminium. Varia. Société des Ingénieurs Civils, séance du 10 Janvier 1896. Académie des Sciences, séance du 20 Janvier 1896.

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SUMARIO.—L'utilisation des chutes du Niagara pour la production de l'énergie électrique (planche XV), A. DUMAS. Les rayons X. de Röntgen, E. WALLON. Circulation de l'air dans le sol, P. P. DEHÉRAIN. La loi sur les boissons alcooliques (suite), ALF. RICHE. Avantages d'un bon masque respirateur contre les poussières, CH. BRICOGNE. Épuration des eaux-vannes industrielles. Exposition de 1900: Étude rétrospective sur les développements successifs des champs Élysées et de l'Explanade des Invalides. Les travaux de l'office du travail en 1895: Législation et réglementation du travail industriel dans les principaux pays (suite), E. RONCHAMP. Eclairage et chauffage des trains du Chicago Milwaukee Saint-Paul Railroad. L'industrie pétrolière en Ru-

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SUMARIO.—Battleships of United States. Bicycle, how Manufactured. Cables for Electric Light and Power. Carriage, Gasoline Motor. Engine Furnace Draught. Fender for Cars. Forests, Destruction of, in California. Gelatin, its Saline Digestion. Hook, Revolving, for Wardrobes. Incubator, Electric. Lubricators of the Detroit Lubricating Co. Oil of Cassia as a Refractive Medium. Pumping Outfit, Postable. Railway, Pole, in Nova Scotia. Railway Speeds, Accelerating. Refrigerating Machine, Twenty Tow. Scientific American, Export Edition. Shoes for Export. Spectrum, Invisible. Torpedo, Trial of New. Trade Marks, Registration of. Trunks. Windmill, «The Eureka». Wood Preserving in Switzerland.

The Electrician (Vol XXXVI)

(Núm. 10. Enero 3)

SUMARIO.—Notes. Motive Power and Gearing. By E. TREMLETT CARTER, Continued. Danger of Electric Shock. By A. T. SWELL. The Glow Lamp Question in Germany. The Continuous Rail in Street Railway Practice. By R. M'CULLOCH. New Public Companies of 1895. Public Companies Wound Up, Dissolved, etc., 1895. Summary of Electrical Events for 1895. Lamp-Connection Diagrams. Some Electrical Patents Expiring this year. The Electric Railways and Tramways of the United Kingdom. Electric Lighting Notices. The Relation between the Atom and the Charge of Electricity Carried by it. By J. J. THOMSON, A. A., F. R. S., Illustrated. American Notes. Correspondence. The Institution of Electrical Engineers. A. A. C. Swinton; Sydney F. Walker. Telegraphy in London: 1847-1896. W. T. Ansell. Trade Notes and Notices. News Companies, etc. City Notes. Companies Share List.

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SUMARIO.—Notes. Reviews. The Form Factor of Alternating Current Curves. By Prof. J. A. FLEMING, Illustrated. Electric Tramways and Telephonic Disturbances. By C. S. DU RICHE PRELLER. The «Safety» System of Concentric Wiring, Illustrated. A Steel-Cased Motor, Illustrated. Illumination *versus* Glare. By ALBERT SCHEIBLE. The Relation between the Atom and the Charge of Electricity Carried by it. By J. J. THOMSON, M. A., F. R. S., Illust., Concluded. Overproduc-

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Company (Limited). News Companies, etc. City Notes. Companies' Share List.

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SUMARIO.—Notes. On the Rays of Lenard and Röntgen. By DR. O. LODGE. The Crompton Potentiometer: Its Use and Capabilities (Illust.) House Wiring. Discussion at the Institution of Electric Engineers. The Institution of Electric Engineers and National Defence. Note on the Memoir of Herr Jaumann entitled «Longitudinal Light». By H. POINCARÉ. Meetings of Scientific Societies. Prof. Röntgen's Epoch. Making Discovery. The New Radiation. Dr. Hopkinson's Presidential Address to the Institution of Electrical Engineers. The Economy of Gas Engines. The Electric Lighting of Melbourne (Illustrated). Correspondence. Legal Intelligence. *Hall v. Alabaster and Co.* *Digby v. Wyatt.* Fareham Electric Light Company (Limited) *v.* Fareham Urban District Council. Trade Notes and Notices. Companies' Meetings and Reports. Eastern Telegraph Company (Limited). City and South London Railway Company. St. James' and Pall Mall Electric Light Company (Limited). Yorkshire House to House Electricity Company. Cambridge Electric supply Company (Limited). Companies' Share List.

(Núm. 15. Febrero 7)

SUMARIO.—Notes. On the Present Hypothesis Concerning the Nature of Röntgen's Rays. By DR. O. LODGE. The effect of Temperature on the Resistance of Paraffin and Resin Oil. By H. P. GAZE. Non Inductive Resis-

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(Núm. 16. Febrero 14)

SUMARIO. — Notes. Theory and Calculations of Asynchronous Alternate Current Motors. By A. HEVLAND, Illustr. High-Pressure Protected. Contact Switch, Illustr. The Reichsanstalt Standard Wire Resistances. By K. FLUSNER and ST. LINDECK, Illustr. German Standards. Brighton Curves, Illustrd. The Nature of Chemical Change and the Conditions which Determine it, Continued. High-Vacua Research. News Proprieties of Cathode Rays. By J. PERRIN. All sorts and Conditions of Rays. American Notes. Legal Intelligence. *Lazaire Weiller and Company v. Bolton and Sons Clarke v. Julius Sax and Co., Limited*. Trade Notes and Notices Companies' Meetings and Reports. Cuba Submarine. Telegraph Co., Limited. Anglo-American Telegraph Co., Limited. India-Rubber, Gutta-Percha, Telegraph Works Co., Limited. Kemsington & Knightsbridge Electric

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SUMARIO.—Notes. Electromagnetic Theory. By O. HEAVISIDE, Cont., Illustr. Theory and Calculation of

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