

らんどハ中央ニ絶縁接合ヲ有シ二部ニ分割セラレ後半部ハ機關車逆行ニ對シ必要ナル電流ヲ送ル。
以上ノ如クシテ列車ヲ停車シタル後之ヲ定位ニ復スニハ機關手ニ於テ適宜行フモノトス。
此装置ハ時トシテ自働信號ニ屢起ル故障ノ爲メ不必要ナル列車ノ停止ヲ惹起スルコトアルモ區間閉塞即信號危害ノ場合ニ於テ列車ヲ停止セシメサリシコトハ未タ一回モナシトイフ。(完)

内外諸雜誌主要題目

かはさき畫報

第二卷 第二十號 大正三年十月。

1. 鐵橋路面ニ應用セラレタル丸形金網鐵筋混凝土杭金網蛇籠ノ護岸。

第二卷 第二十一號 大正三年十一月。

1. 混凝土護岸論。

2. 擁壁ノ實用設計法。

3. 川崎式金網蛇籠ノ新用途。

工學

第一卷 第六號 大正三年十月十五日。

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1. 人工的水路ニ於ケル摩擦抵抗.
2. 橋梁ノ發達. (第二)
3. 歐羅巴諸國ニ於ケル鐵筋混凝土ノ仕様書.
4. 神戸鐵道管理局管内既設橋梁鑑査心得.
5. 請負ノ研究. (第六)

第一卷 第七號 大正三年十一月十五日.

1. 二鉸式鋼拱橋鹿乘橋.
2. 鐵筋混凝土橋梁設計心得.
3. 橋梁ノ發達. (第三)
4. 請負ノ研究. (第七)

工學會誌

第三百七十七卷 大正三年十月二十一日.

1. 四谷見附橋工事報告.

第三百七十八卷 大正三年十一月二十四日.

1. 大阪市電氣鐵道軌條磨滅ニ就テ.

工業雜誌

第四十一卷 第五百四十一號 大正三年十月十日.

1. 利根發電株式會社第二水力工事設計概要.

2. 建築用新材抗火石ニ就テ.

第四十一卷. 第五百四十二號. 大正三年十月二十五日.

1. 我國ノ水道、地下水.

帝國鐵道協會會報

第十五卷. 第六號. 大正三年十一月二十五日.

1. 獨英米ニ於ケル鐵道運賃制度ニ就テ.

2. 獨逸鐵道ノ運轉一斑.

3. 岩越線建設概要.

BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 16. No. 170. October, 1914.

1. Report of committee on rail. (Influence of carbon on the properties of rails. Formula for deflection of rails in drop test. Study of a rail with internal fissures. Rail failure statistics for 1913. Comparative service tests of 100-lb. sections, P. S. and A. R. A.—A., on the Pennsylvania Lines West of Pittsburg)

CONCRETE AND CONSTRUCTIONAL ENGINEERING

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Vol. IX. No. 9. September, 1914.

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1. The economical design of reinforced concrete T-beams.
2. Testing concrete aggregates.
3. Reinforced concrete cooling tower at Antwerp.

Vol. IX. No. 10. October, 1914.

1. Recent British patents relating to concrete.
2. Finishing and curing concrete road surfaces.
3. The new government ship lock in Black Rock Harbour, U. S. A.
4. The Harrisburg reinforced concrete protective wall, U. S. A.

ELECTRIC RAILWAY JOURNAL

Vol. 44. No. 10. Sept. 5, 1914.

1. Railway electrolysis and methods of treatment.
2. A home-made crossing.
3. Concrete trolley and lighting poles in San Francisco.
4. St. Louis track special work standards.

Vol. 44. No. 11. Sept. 12, 1914.

1. The Chicago and West Towns Railway.
2. Joint use of tracks in Milwaukee.

Vol. 44. No. 12. Sept. 19, 1914.

1. A study of insert special work failures.

2. Centers-fastenings, renewability, shape and groove.
- Vol. 44. No. 13. Sept. 26, 1914.
1. Examples of insert special work failures.
 2. Depreciation.
 3. Electric shovel made at Bangor, Maine.
- Vol. 44. No. 14. Oct. 3, 1914.
1. A new method of traffic acceleration on the Scranton & Binghamton.
 2. Labor saving devices at Pittsburg.
 3. Vineville Avenue concrete paving, Macon, Ga.
 4. Cast-iron filler for use with bolted joints.
 5. Simplified method of making thernit insert joints.
- Vol. 44. No. 15. Oct. 10, 1914.
1. New shops and earhouse of the Atlantic City & Shore Railroad.
 2. Electric welding in track repairs.
- Vol. 44. No. 15A. Oct. 13, 1914.
1. Report of committee on power distribution.
- Vol. 44. No. 16. Oct. 17, 1914.
1. Making a small company pay.
 2. Reports presented at concluding Session of the Engineering Association.
- Vol. 44. No. 17. Oct. 24, 1914.

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1. Twin cars in Portland, Ore.
2. A zone system of fares in practice.

Vol. 44. No. 18. Oct. 31, 1914.

1. Signal maintenance on the New York Subway.
2. Type and cost of guard rails.
3. The use of vanadium in steel rails.
4. Record for new ties and new rail in New Haven Lines.

Vol. 44. No. 19. Nov. 7, 1914.

1. Electric railway service in Manila.

Vol. 44. No. 20. Nov. 14, 1914.

1. Renewing rail on twelve-year-old ties and foundations.
2. Corrosion of metals in natural soils.

ENGINEERING

Vol. XCVIII. No. 2540. Sept. 4, 1914.

1. Notes on the relation between rainfall and yield.
 2. Cutting-off machines for pipes.
 3. Distribution of pressure around cylindrical rods and bodies when exposed to uniform air currents.
 4. Bucyrus dipper-dredgers on the Panama Canal.
- Vol. XCVIII. No. 2541. Sept. 11, 1914.

1. Bending stresses in hooks and other curved pieces.
 2. The dynamic increment of a single rolling load on a supported beam.
 3. Ferro-concrete bridge at Longtown, Cumberland.
- Vol. XCVIII. No. 2542. Sept. 18, 1914.
1. The distribution of stress and strain in a reinforced-concrete beam subject to bending.
 2. Bridges of large span.
 3. Irrigation works in Italy.
- Vol. XCVIII. No. 2543. Sept. 25, 1914.
1. Bending stresses in hooks and other curved pieces.
 2. The Manhattan Bridge, New York.
- Vol. XCVIII. No. 2544. Oct. 2, 1914.
1. Critical loads for long struts of varying section.
 2. Statical calculations of rectangular reinforced-concrete tubes.
- Vol. XCVIII. No. 2545. Oct. 9, 1914.
1. The Manhattan Bridge, New York.
 2. Purification of public water supplies.
- Vol. XCVIII. No. 2546. Oct. 16, 1914.
1. The theory of hardening and the constitution of steel.
- Vol. XCVIII. No. 2547. Oct. 23, 1914.
1. Coal-handling-plant on the United States Mast collier "Jupiter."

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Vol. XCVIII. No. 2548. Oct. 30, 1914.

1. Granary at Glasgow Harbour.
2. The Manhattan Bridge, New York.
3. Coal-handling plant at Southend-on-Sea Electricity Station.

ENGINEERING MAGAZINE

Vol. XLVIII. No. 1. October, 1914.

1. The strength of welds.
2. Durability of creosoted piling.

ENGINEERING NEWS

Vol. 72. No. 10. Sept. 3, 1914.

1. Seros power development, I erida, Spain : diversion dam and canals.
 2. Water filtration and softening tests at Cleveland, Ohio.
 3. Design and construction of the Bassano Dam.—Part II.
 4. Irrigation operations of Imperial Water Co. No. 1 for the year 1913.
- Vol. 72. No. 11. Sept. 10, 1914.

1. Farnville Bridge across the Appomattox Valley.
2. Asphaltic concrete surfacing for suburban roads, Chicago, Ill.
3. Field tests of concrete for municipal work at Kansas City, Mo.

4. Present status of small-cube granite block pavements.
 5. Diaphragm measurement of water in open channels.
 6. Seros hydro-electric development near Lerida.
 7. Concrete lining, Franklin Canal, Rio Grande project.
- Vol. 72. No. 12. Sept. 17, 1914.

1. Concrete arch bridge with ornamental tile panels, Philadelphia.
 2. New Girard Point Grain Elevator at Philadelphia.
 3. Land-drainage problem in Missouri.
 4. Maintenance experience with a bituminous-top concrete automobile highway.
 5. Use a lime in water purification.
 6. Hints for preparing layout plans for bridges on curves.
- Vol. 72. No. 13. Sept. 24, 1914.

1. Making a watertight junction of a large steel pipe and a rock tunnel under a high head.
 2. Tile-treating plant, Louisville & Nashville R. R.
 3. New railway station at Memphis.
 4. Winter construction of a reinforced-concrete building.
- Vol. 72. No. 14. Oct. 1, 1914.
1. An ice-breaking train ferry for Quebec.
 2. The New York Rapid Transit Railway extensions.
 3. Collection and disposal of city refuse, Washington, D. C.

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4. Computing maximum bridge stresses by a maximum-moment table.
5. Engineering and temporary structures for the St. Louis Pageant.
6. Methods and equipment for applying lime water at the Columbus Water-Purification Works.
7. Methods of construction of the Grand Mere Hydro-electric Plant, Quebec.
8. Concrete steps and retaining wall.
9. Calaveras Dam, California, the highest earth dam.

Vol. 72. No. 15. Oct. 8, 1914.

1. Building bridge substructures on the Grand Trunk Pacific Railway.
2. Concrete retaining-wall for flood protection at Schenectady.
3. Experimental levees with concrete paving and sheet-pile cutoff, Mississippi River.
4. Tests of deep-well irrigation pumping plant.
5. Trainshed of the Kansas City Union Station.
6. Reinforced-concrete pile with special provisions for jetting.
7. The New York Rapid Transit Railway extensions.
8. Converting a pin-connected bridge into a riveted structure.

Vol. 72. No. 16. Oct. 15, 1914.

1. Gravel road construction in Wisconsin.
2. Protecting steelwork against locomotive blasts.
3. Flood prevention reservoirs in Bohemia.
4. The South American field.

5. Relation of geology to railway tunnel location.
6. Reclamation of the Zuider Zee.
7. Large hand-built earth-dam, "Mammoth Reservoir" Price, Utah.
8. The New York Rapid Transit Railway extensions.

Vol. 72. No. 17. Oct. 22, 1914.

1. Spokane River and Hangman Creek Viaduct of the O.-W. R. R. & N. Co.
2. Pipe-laying methods on the narrows siphon of the Catskill Aqueduct, New York City.
3. Wheel pit and elevator for coach-repair yard, Michigan Central R. R.
4. Method for constructing a tunnel under the East River at New York City.
5. Granite-block pavement as smooth as asphalt.
6. Suggested plan for developing the Lower Colorado River.
7. Brooklyn Sewage-Experiment Plant.

Vol. 72. No. 18. Oct. 29, 1914.

1. Noteworthy steel trestle: Stock-pile trestle at Negaunee Mine.
2. Failure of the reinforced-concrete customs house at La Ceiba, Honduras, C. A.
3. The New York Rapid Transit Railway extensions.
4. Snow-disposal experiments in Manhattan Borough Sewers.
5. Use of electric energy in the construction of the Sun River irrigation project.
6. Tunneling machine for clay or stiff sand formations.
7. Volumetric measurement of liquids on a large scale.

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8. Lining a railway tunnel with concrete by compressed air.
9. Failure of a basement retaining wall during construction.

Vol. 72. No. 19. Nov. 5, 1914.

1. Ashokan reservoir roads, built by the New York City Board of Water-Supply.
2. Graphic method of determining runoff in storm sewers.
3. Development of sand and gravel deposits.
4. Two striking steel bridges on the Lake Erie & Eastern R. R.
5. Kansas City specifications for creosoted wood-block paving.
6. Winter stream measurements in Western Canada.
7. Formulas for locating frogs and switches on circular and tangent tracks.
8. Concrete viaduct with 50-ft. walls.
9. Portable plant for asphaltic-concrete roads in Chicago.
10. The New York Rapid Transit Railway extensions.

Vol. 72. No. 20. Nov. 12, 1914.

1. Government power dam for municipal use.
2. Operation of sand and gravel plants.
3. The New York Rapid Transit Railway extensions.
4. Ladder dredges with side ladder frames.
5. Concrete tower for water tank, Erie R. R.
6. The Yale Bowl; an amphitheater of earth-work.

ENGINEERING RECORD

Vol. 70. No. 10. Sept. 5, 1914.

1. Revamped waterworks and new purification plant at Fort Smith, Arkansas.
2. Economical depth of covered reservoirs.
3. Design of Monessen Concrete Viaduct with 150 foot arch span.
4. Water-purification plant at Flint.
5. Difficulties in building reinforced-concrete aqueduct 17 feet in diameter.
6. Sero hydro-electric development in Spain.—Part II.

Vol. 70. No. 11. Sept. 12, 1914.

1. Westover terrace project in Portland, Oregon.
2. Report on electrolytic sewage treatment at Elmhurst.
3. Chicago's reconstructed clearing yard.
4. Economic design of penstocks.
5. Efficiency of various parts of coal-tar creosote against marine borers.

Vol. 70. No. 12. Sept. 19, 1914.

1. Developing the track layout of a large and busy passenger terminal.
2. Speed on topographic surveys.
3. Ventilation of Allegheny Summit Tunnel.

Vol. 70. No. 13. Sept. 26, 1914.

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1. Recent road improvements in Hawaii.
 2. Harrisburg mechanical filters do not infringe negative head patents.
 3. How the wood-preserving industry can avoid injury resulting from the war.
 4. Kansas City Flooded.
 5. Substructure of Lind Viaduct.
 6. Quebec Bridge anchor arm bottom chords.
 7. How to insure minimum costs and prompt delivery of steel reinforcing bars.
 8. Twin Peaks Rapid Transit Tunnel in San Francisco.
- Vol. 70. No. 14. Oct. 3, 1914.
1. Mill Creek Sewer System of St. Louis—a \$ 3,000,000 pressure tunnel project.—Part I.
 2. Decay in wooden bleachers.
 3. How to insure minimum cost and prompt delivery of steel reinforcing bars.
 4. American wharf design.
 5. Steam-shovel work at Ashokan Reservoir.
 6. Mount Gretna Sewage Plant.
- Vol. 70. No. 15. Oct. 10, 1914.
1. Proposed water storage on the Upper Maurice River, Province of Quebec.—Part I.
 2. A 75-ton derrick for defence erection at Manila.
 3. Largest pneumatic caisson job in Canada.
 4. Causes of breaks in Chicago water mains.

5. Wooden cantilever traveler.
6. True pressure line in a masonry arch.
7. Mill Creek Sewer System in St. Louis—a \$3,000,000 pressure tunnel project.—Part II.
8. Notes on trench sheeting.
9. Quebec Bridge anchor arm diagonal and posts.

Vol. 70. No. 16. Oct. 17, 1914.

1. Special steelwork in the Morgan Building, New York City.
2. Impressions of London's pavements.
3. Electrolytic sewage treatment at Elmhurst.
4. Pipe laying.
5. Mill Creek Sewer System in St. Louis—a \$3,000,000 pressure tunnel project.—Part III.
6. Self-supporting concrete arch reinforcement of structural shapes.
7. Arthur's Pass Tunnel in New Zealand.

Vol. 70. No. 17. Oct. 24, 1914.

1. Country roads in Southeastern Wisconsin.
2. Tests of vanadium steel rails.
3. Design of 152-foot steel-framed dome.—Part I.
4. Railroad-yard lighting at McKees Rocks.
5. Draining district 9, Mississippi Country, Arkansas.
6. Railway power station at Louisville.

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7. Erecting long girders with a gallows bent in Kansas City.
 8. Waste-water disposal at sugar factory.
 9. Economical diameters of pipes.
 10. Lining Walnut Hill Reservoir at Omaha.
 11. Bridge over Lower Ganges River in India.
- Vol. 70. No. 18. Oct. 31, 1914.
1. Nine-foot, pre-cast concrete pipe for lining pressure tunnel in Baltimore.
 2. A unique reinforced concrete bridge.
 3. Concrete "lumber" for mine shafts.
 4. Record rainfall which caused Kansas City floods.
 5. Cantilever bridge built to resemble concrete arch.
 6. Design of 152-foot steel-framed dome.—Part II.
 7. Water jet to lift stone at concrete plant.
 8. Effect of steaming process of creosoting on strength of Oregon fir piling.
 9. Proposed water storage on the Upper St. Maurice River, Province of Quebec.
 10. Stadium for University of Michigan.
 11. Tunnel lining with compressed-air plant.
- Vol. 70. No. 19. Nov. 7, 1914.
1. Progress of highway improvement and finance in the Southern States.
 2. Construction plant for Cleveland Filters.

3. Enlarging an old egg-shaped brick sewer.
4. Details of construction which make brick pavements good or bad.
5. Concrete highway bridge construction as standardized by Iowa Commission.
6. How California is building an \$18,000,000 system of state highways.

Vol. 70. No. 20. Nov. 14, 1914.

1. The engineer as a factor in modern warfare.
2. Flood prevention for the Lower Mississippi.
3. Fourth American Road Congress.
4. Ultimate strength of carbon and nickel-steel models of Quebec Bridge members.

INDIAN ENGINEERING

Vol. LVI. No. 12. Sept. 19, 1914.

1. Railway gauges.
2. Bituminous roads.

JOURNAL OF THE AMERICAN WATER WORKS ASSOCIATION

Vol. 1. No. 3. September, 1914.

1. Disinfecting 200,000,000 gallons of water a day—experience with chloride of lime and liquid chlorine at Torredale Filtration Plant.
2. Discussion on the Croton Water Supply, its quality and purification.

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3. Discussion on present day water filtration practice.
4. Discussion on investigation into the advisability of substituting agar for gelatine as a medium for the determination of bacterial counts in water analysis.
5. Discussion on sewage pollution of boundary waters.
6. Purification of water by the ultra-violet rays.
7. The efficiency of household filters in Chicago.

JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

Vol. XIX. No. 7. September, 1914.

1. Panama Canal.
2. Universal use of electricity on the Panama Canal.

Vol. XIX. No. 8. October, 1914.

1. The future sanitary problem of Chicago.
2. Sewage disposal plant at Aberdeen, South Dakota.

LE GÉNIE CIVIL

Tome LXXV. No. 19. Sept. 5, 1914.

1. L'alimentation en eau potable de New York. Le barrage réservoir d'Ashokan et l'aqueduc de Catskill.

Tome LXXV. No. 20. Sept. 12, 1914.

1. L'alimentation en eau potable de New York. L'aqueduc de Catskill.

MUNICIPAL JOURNAL

Vol. XXXVII. No. 10. Sept. 3, 1914.

1. Brick paving in Philadelphia.
2. Street paving in Providence.
3. Wood block pavement in Memphis.
4. Relaying old granite blocks.
5. New specifications for brick streets and highways.
6. Oil for wood blocks.
7. Lugg wood block in Nashville.
8. Connecticut reinforced concrete road.

Vol. XXXVII. No. 11. Sept. 10, 1914.

1. Street cleaning and refuse disposal in Richmond.

Vol. XXXVII. No. 12. Sept. 17, 1914.

1. Fitchburg Sewage Disposal Plant.
2. Liberty Sewage Disposal Plant.
3. Compulsory sewage purification in New Jersey.
4. Operation of sewage disposal plants.
5. Descriptions of operating plants.

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1. "Discontinued" water mains.
2. Purification of water by ultra-violet rays.
3. Break in Springfield supply main.

4. External corrosion of cast iron pipe.

Vol. XXXVII. No. 14. Oct. 1, 1914.

1. Highway maintenance and repair at Chicago.
2. Development of vitrified brick pavements.
3. Constructing concrete road in Maryland.

Vol. XXXVII. No. 16. Oct. 15, 1914.

1. Cleveland's sewage testing station.
2. Operation of sewage disposal plants.
3. Sewage treatment at Mt. Kisco.
4. Testing sewer and drain pipe.
5. New electrolytic sewage treatment.

Vol. XXXVII. No. 17. Oct. 22, 1914.

1. Water purification at Trenton.

Vol. XXXVII. No. 18. Oct. 29, 1914.

1. Wood block pavements in Newark.

Vol. XXXVII. No. 19. Nov. 5, 1914.

1. Laying asphalt concrete in New Jersey.

2. Replacing Macadam with brick.
3. California State highway.
4. Notes on sand clay roads.
5. Cleaning roads without sprinkling.
6. Road construction by convicts in Virginia.
7. Road oiling in Pasadena.
8. Regulation of street traffic.
9. Cracks in concrete roads.
10. Shallow cutting in road work.

Vol. XXXVII. No. 20. Nov. 12, 1914.

1. Waterbury Street and Sewer Bureau.
2. Norfolk Street Cleaning Department.

PROFESSIONAL MEMOIRS

CORPS OF ENGINEERS, UNITED STATES ARMY AND ENGINEER DEPARTMENT AT LARGE

Vol. VI. No. 29. Sept.—Oct., 1914.

1. Works at the falls of the Ohio River, Louisville, Ky.
2. The U. S. seagoing suction dredge "New Orleans."
3. Winter work in the construction and repair of dams and shore protections in the United States improvement of the Upper Mississippi River.

Vol. VI. No. 30. Nov.—Dec., 1914.

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1. Improving Tennessee River above Chattanooga, Tenn., by regulation or open-channel method.
2. Reconnaissance equipment.
3. Discussion: military survey of Oahu.

RAILWAY GAZETTE

Vol. XXI. No. 10. Sept. 4, 1914.

1. Automatic train shops.
2. Light railways in the Island of Java.

Vol. XXI. No. 11. Sept. 11, 1914.

1. Systematic signal inspection.
2. Causes of U. S. A. accidents.
3. Burnt clay as ballast.
4. A record train load.
5. The new locomotive shops of the North-Western Railway of India.

Vol. XXI. No. 12. Sept. 18, 1914.

1. Electric locomotive for Italian State Railway.

Vol. XXI. No. 13. Sept. 25, 1914.

1. Improvements in the use of cement and concrete.
- Vol. XXI. No. 14. Oct. 2, 1914.

1. New rolling stock for the metropolitan railway.

Vol. XXI. No. 15, Oct. 9, 1914.

1. The railway employment (Prevention of accidents) inquiry.

2. New coaling plant at Port Talbot.

Vol. XXI. No. 16, Oct. 16, 1914.

1. South African railway.

Vol. XXI. No. 18, Oct. 30, 1914.

1. Electrical and steam railway costs.

2. Ten years' railway accidents—1904-1913.

SCHWEIZERISCHE BAUZEITUNG

Band LXIV. No. 10, Sept. 5, 1914.

1. Neuer Fernrohr-Distanzmesser.

Band LXIV. No. 15, Oct. 10, 1914.

1. Vom Bau der viergeleisigen Eisenbahnbrücke über den Neckar und des Rosensteintunnels bei Cannstatt.

Band LXIV. No. 16, Oct. 17, 1914.

1. Vom Bau der viergeleisigen Eisenbahnbrücke über den Neckar und des Rosensteintunnels bei Cannstatt.

2. Neuere, grosse Ozeandampfer.

Band LXIV. No. 17, Oct. 24, 1914.

1. Vom Bau der viergeleisigen Eisenbahnbrücke über den Neckar und des Rosensteintunnels bei Cannstatt.

2. Trinkwasser-Sterilisierung mittels ultravioletter Strahlung.

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3. Vom Bau des neuen Trockendocks in Le Hâvre.

SCIENTIFIC AMERICAN

Vol. CXL. No. 12. Sept. 19, 1914.

1. The Tunkhannock Railway Viaduct, (construction of the largest concrete arch bridge in the world).

Vol. CXL. No. 15. Oct. 10, 1914.

1. Laying the aqueduct siphon across the Narrows to Staten Island. (New method of making flexible yet water-tight joints)

Vol. CXL. No. 20. Nov. 14, 1914.

1. Lock-entrance guisson for the Panama Canal.

SCIENTIFIC AMERICAN SUPPLEMENT

Vol. LXXVIII. No. 2021. Sept. 26, 1914.

1. The Magnolia cut-off. (An improvement on the Baltimore & Ohio Railroad costing millions).
2. The Baltic and Black Sea Canal scheme. (An improvement of immense importance to the commerce of Central Russia)

Vol. LXXVIII. No. 2025. Oct. 24, 1914.

1. The origin of waves. (Their propagation and their force)
- Vol. LXXVIII. No. 2028. Nov. 14, 1914.

1. The Hoang Ho Bridge. (An important link in railroad communication in the Far East)

THE ENGINEER

Vol. CXVIII. No. 3062. Sept. 4, 1914.

1. Railway construction in Switzerland. No. VI.
2. The effect of automatic signals.
3. Ten-coupled locomotive, Baltimore and Ohio Railroad.

Vol. CXVIII. No. 3064. Sept. 18, 1914.

1. Railway construction in Switzerland. No. VII.

Vol. CXVIII. No. 3065. Sept. 25, 1914.

1. The erection equipment of the new Quebec Bridge.
2. Railway accidents during 1913.

Vol. CXVIII. No. 3066. Oct. 2, 1914.

1. Bridge over the Lower Ganges.
2. Railway construction in Switzerland. No. VIII.
3. Locomotive steam crane excavator for Queensland.

Vol. CXVIII. No. 3067. Oct. 9, 1914.

1. Pumping and electrical machinery for Newport Docks.

Vol. CXVIII. No. 3068. Oct. 16, 1914.

1. New sewage disposal works at Anchterderran.

Vol. CXVIII. No. 3069. Oct. 23, 1914.

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1. Economy in locomotive haulage on steep gradients.
 2. The purification of water supply.
- Vol. CXVIII. No. 3070. Oct. 30, 1914,

1. The practical training of engineers.
2. Ultra-violet ray water sterilisers.

THE WATER CHRONICLE

Vol. IV. No. 3. September, 1914.

1. Lake Superior to be regulated.
2. Government hydro-electric plant at the Great Falls of the Potomac.
3. The Adamson Dam bill as its passed the House of Representatives on August 4.
4. The use of concrete in water works construction.
5. Practical talk on water purification.
6. Another 300-foot high dam, Elephant Butte project.

Vol. IV. No. 4. October, 1914.

1. Testing water power plants.
2. Water power in Congress.
3. Efficient utilization of very low heads.
4. Important hydro-electric development in Scotland.
5. Diagram for calculating cast-iron pipes.

6. Diagrammatic method of determining the cost per foot of cast-iron pipe.
7. The proper use of water filtration.
8. Filter sand and gravel.
9. Description of a water supply system possessing some unique features.
10. Purification of water by the ultra-violet rays.
11. Building the highest dam in the world.

WATER AND WATER ENGINEERING

Vol. XVI. No. 189. Sept. 15, 1914.

1. Drilling performance at the Kensico Dam, Catskill aqueduct system, New York.
2. River training works at Rangoon.
3. Irrigation dams and hydro-electric power.

Vol. XVI. No. 190. Oct. 15, 1914.

1. The standardisation of methods for the bacterioscopic examination of water.
2. Russian canals and waterways.
3. Forms for concrete dams.
4. Some observations on the effect of ozone on algae growths.