Bibliography of Power Plant Engineering

Grover Keeth

1906

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A BIBLIOGRAPHY OF
POWER PLANT
ENGINEERING
A THESIS
PRESENTED BY
GROVER KEETH
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Approved
W.I. Porterhead
H.M. Raymond, Dean of Eng. Studies
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### Coal Storage

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*Electrically driven condensing plant

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Electric elevator controllers
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Automatic elevator motor controller
Electrical World 1 C. 77 : 59 Jan. 5, 1901

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Electrical World 1 C. 78 : 633 Aug. 10, 1901

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Engineering 1 C. 76 : 230 Aug. 28, 1903

Electric passenger elevator (W.J. Cooper)
Engineer (Lond) 93 : 176 Feb. 14, 1902

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Western Electrician 3 C. 14 : 74 Feb. 17, 1904

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Western Electrician 3 C. 33 : 93 Aug. 9, 1908
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Automatic controller for induction motors (W. Mair)
American Machinist 6 C. 74 : 51 May 12, 1900

Electrically controlled hydraulic elevators (W. Baxter, Jr.)
American Machinist 4 C. 24 : 1031 Sept. 12, 1900
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Electrically driven hydraulic passenger lifts
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COMPARISON

Electric vs. hydraulic elevators (Edith)
American Electrician 12 : 599 Dec. 1903

Hydraulic and electric elevators (E. VanWinkle)
American Electrician 16 : 5-4 Oct. 1904

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Engineering News 41 : 267 Apr. 27, 1896

Relative efficiency of electric & hydraulic elevators (W. C. L. Eglin)
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*Electric elevator with non-reversable motor
American Elect. 2 C. 10 : 227 May 1909

Electric elevators
American Machinist 28 : 577 Oct. 26, 1905

*Electric elevators (J. Sachs)
Cassier 22 P. 8 : 307 Aug. 1905

*Electric elevators with description of special types (F.J. Sprague)
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*Latest improvements in electric elevators
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*Improved electric elevators
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*Electric elevators (F.J. Sprague)

*Electric elevators
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*Direct connected elevator equipment
Electrical World 1 C. 16 : 210 Nov. 24, 1900

*Type of heavy sidewalk electric elevator
Engineering News 3 C. 42 : 504 Sept. 24, 1900

*Direct electric elevator
Western Electrician 13. 15 : 44 July 22, 1901

*Standard high duty electric elevator
Western Electrician 2 C. 17 : 255 Nov. 26, 1905

*Electric elevators for safe operation at high speed (H. Cochran)
Western Electrician 2 C. 27 : 283 Nov. 3, 1900
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*Otis electric elevator for private houses
Electrical World 2 C. 29 : 101 Aug. 8, 1906
Wabbs electric elevator
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Electrical World 2 C. 37 : 514

Fundamental features of electric elevators (E.R.Carichoof)
Electrical Review N.Y.

Electrically driven lifts (E.O.Hunt)
Elect. Eng. London

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ELECTRIC-SPRAGUE.

*Passenger lift equipment for Central London Ry.*

Engineer C. 19 : 273  Mech. 7, 1900

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Safety governor of the Sprague-Pratt electric elevator
American Machinist 2 C. 70 : 754  Apr. 1, 1897

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Electrical World 16 C. 62 : 350  Apr. 24, 1897

HYDRAULIC.

*Low pressure hydraulic elevator (W.Baxter, Jr.)*
American Machinist 6 C. 84 : 479  May 2, 1901

*Valve gears for high pressure hydraulic elevators (W.Baxter, Jr.)*
American Machinist 6 C. 84 : 695  June 6, 1901

*Otis double power hydraulic elevator (W.Baxter, Jr.)*
American Machinist 6 C. 84 : 713  June 27, 1901

*Hydraulic plunger elevators (W.Baxter, Jr.)*
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*Aero-hydraulic elevator (W.Baxter, Jr.)*
Engineer U.S.N. 9 C. 41 : 634  Dec. 15, 1904

*Evolution of hydraulic elevators (C.L.Duenkel)*
Engineering News 18 C. 49 : 118  Feb. 5, 1905

*Comparison between vertical and horizontal cylinder hydraulic elevator engines (M.S.Huyette)*
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*Works of the standard plunger elevator Co. (W.A.Waterman)*
Machinery 10 : 573  July 1904
Inclined elevator at the Paris exposition

*Electrical World 1 C. 75 : 876  Apr. 26, 1900
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*Electric inclined elevator for elevated railway:
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Miscellaneous Systems.

New elevator hoisting mechanism (Neehan System)
*American Elect. 1 C. 74 : 153  Mar. 1902
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*New spiral elevator
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General Statement.

Modern elevator types and elevator practice (H.S. Knowlton)
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*Elevators (W.Baxter, Jr.)
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*Selection and installation of hydraulic elevators (H.D. James)
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# Selection and installation of hydraulic elevators (W.A. Gibson)
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# Electric elevators (H.D. James)
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# Electric elevators (W.A. Gibson)
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Standards of practice in electric elevator installation (P.R.)
# Engineer Mag. 14 P. 14 : 472 Dec. 1897
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# Some problems in electric elevator work (H. Cochrane)
Western Elect. 7 C. 18 : 867 May 70, 1900
2 C. 74 " "

Present status of electric elevators (James)
Electrical World 47 : 120 June 25, 1904

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# Electric elevator plant of the Commercial Cable Bldg., N.Y.
Elect. Rev. N.Y. 2 C. 75 : 287 May 4, 1900

# Elevator at the Paris exposition

# Electric elevators in the Siegel, Coop r Bldg., N.Y.
Elevators in the Park Hotel.

Electric World 3 C. 4:41

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Some recent high capacity electric elevators

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Large electric passenger elevator in London

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Standard electric elevators in the Fine Arts Rldg., Chicago

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ELECTRIC-SPRAGUE.

- Passenger lift equipment for the Central London Ry.
  Engineering News 12 C.  47 : 378  Dec. 10, 1895
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- Sprague elevators
  Electrical World 2 C.  28 : 546  Aug. 20, 1894

- Elevator equipments of the Ivins Syndicate Bldg., N.Y.
  Engineering News 1 C.  41 : 277  Apr. 27, 1894

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- Elevators in Montgomery Ward & Co. Bldg.
  Engineering Record 2 C.  47 : 407  May 25, 1901

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  Engineering Record 51 : 592  June 17, 1905
  25 : 577  Aug. 1905

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- Elevators of the Glasgow harbor tunnel.
  Engineering 2 C.  50 : 601  May 31, 1905
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- High duty pump and elevator system for a warehouse.
  Engineering Record 2 C.  54 : 185  Aug. 9, 1906

- Elevators of the Broad Exchange Bldg., N.Y.
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- Elevators in the Chicago Tribune Bldg.
  Engineering Record 1 C.  45 : 500  June 28, 1908

- Elevators in the Ansonia apartment hotel, N.Y.
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- Elevators of the Hotel Belmont, N.Y.
  Engineering Record 51 : 81  Jan. 20, 1906
"Hydro-electric elevators in the Tudor Apartments, Chicago
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New arrangement of counterbalances for elevator cars (F.E. Illihau).

Electrical World 1 C. 50 : 406
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Elevator defects

Engineer News 1 C. 57 : 207
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Passenger elevators (T. E. Brown)

American Machinist 4 C. 37 : 1390
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Passenger elevators

Engineering Mag. 10 : 697
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Mechanical details in high office buildings

Engineering Record 4 C. 47 : 504
June 1, 1901

Aeration of the discharge from an elevator pump

Engineering Record 1 C. 47 : 709
May 9, 1906

Induction motors for elevators (A. E. Weeks)

American Machinist 5 C. 15 : 715
June 1903

Accumulators for electric elevators

Electrical World 1 C. 29 : 704
June 5, 1907

Electric elevator problems (J. E. Woodbridge)

Electrical World 4 C. 30 : 165
Aug. 7, 1907

Elevator calling signals in N.Y. Telephone Bldg.

Electrical World 2 C. 30 : 270
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Smith's electro-magnetic elevator

Western Electrician 2 C. 10 : 207
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Automatic electric elevator used as a book lift

Western Electrician 1 C. 20 : 20
July 17, 1901

Alternating current electric elevator

Western Electrician 3 C. 30 : 308
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Single phase elevator motor

Western Electrician 1 C. 76 : 938
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New automatic electric elevator

Western Electrician 1 C. 47 : 90
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SAFETY.

Safety of elevators.
American Machinist 2 C. 21 : 56 Oct. 23, 1902

Safety stop for elevators (J. Hanford).
American Machinist 2 C. 21 : 6

Elevator safety audiences (W. Baxter, Jr.).
American Machinist 2 C. 25 : 173
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6 C. 1224 Aug. 27, 1903
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Automatic guide for elevator rope (L. E. Victor).
American Machinist 2 C. 25 : 45 Jan. 1, 1905

Protection of lift shafts (F. C. Walker).
Engineering 6 C. 71 : 44 Oct. 23, 1903

Elevator safety audiences (C. R. Wright).
Engineering 6 C. 74 : 225 Aug. 22, 1905

New pneumatic device for high-speed passenger elevators.
Engineering News 4 C. 39 : 263 Oct. 10, 1900

Elevator safety (C. R. Pratt).
Engineering News 3 C. 47 : 490 June 12, 1903
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Elevator safety (T. E. Brown).
Engineering News 3 C. 51 : 113 Feb. 2, 1905

Test of an elevator air cushion.
American Machinist 2 C. 25 : 1511 Oct. 27, 1902
Engineering News 4 C. 48 : 295 Oct. 9, 1902

Air cushion test.
Engineering News 1 C. 40 : 56 July 29, 1903

High buildings and safe elevators.
Engineering News 4 C. 36 : 725 Nov. 2, 1903
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Safety in elevators (C. R. Pratt).
Electrical World 1 C. 46 : 47 July 12, 1902

Safety in elevators (C. F. Shepard).
Electrical World 2 C. 46 : 257 Aug. 16, 1902

Electric elevators (C. R. Pratt).
Western Electrician 1 C. 71 : 512 Nov. 1, 1905
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Operating cost of electric elevators

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| Test of a hydraulic elevator system (R. F. Bolton)
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Test of a plunger elevator plant in the Trinity Bldgs. (A. J. Herschmann)
  Engineering News 10 C.  | Dec. 14, 1905 |
  Engineering Record 7 C.  | Dec. 16, 1905 |
Power consumption of elevators operated by alternating and direct current motors (C. F. Sewer)
  Engineer U. S. A. 4 C. | May 1, 1905 |
  Western Electrician 5 C. | May 7, 1905 |
Test of Sprague-Pratt elevators in the Park Row Bldgs.
  Engineering Record 6 C.  | July 6, 1901 |
Elevator motor tests (Exit)
  American Electrician 2 C. | June 1902 |
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Feed Water Heaters.

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CLOSED HEATERS.

#Feed water heater (J.F. Robert)
American Elect. 5 C. 17 : 276 May 1900
6 C. 254 July 1900

#The Airedale Water heater
American Elect. 1 C. 17 : 174 Apr. 1901

#Feed water heating— American practice (W. W. Christie)
Cassier's 24 C. 24 : 320 Aug. 1907

#Kirkaldy's feed water heater
Engineering 2 C. 60 : 457 Oct. 11, 1905

#The Wainwright feed water heater

#Bundy feed water heater
American Elect. 1 C. 10 : 172 Apr. 1909

#Robertson feed water heater
American Elect. 1 C. 11 : 19 Jan. 1909
Elect. World 1 C. 20 : 182 Nov. 5, 1909

#Cookson heater
American Elect. 2 C. 11 : 201 Apr. 1909

#Otis feed water heater
American Elect. 1 C. 11 : 206 June 1909
St. Ry. Journal 2 C. 17 : 64 Dec. 1905

#Killer feed water heater
American Elect. 1 C. 14 : 155 May 1909
Engineer U.S.A. 3 C. 41 : 857 Sept. 15, 1909
98 : 382 Aug. 20, 1909

#Anderson feed water heater
American Elect. 1, C. 15 : 470 Sept. 1907

The Goubert heater

#The National feed water heater
Engineer U.S.A. 1 C. 41 : 206 " 15, 1904
Iron Age 1 C. 27 : 5 " 10, "

#Ross feed water heater and purifier
Engineer U.S.A. 2 C. 40 : 156 Feb. 15, 1905

Closed heaters
Engineer U.S.A. 42 : 13 Jan. 1, 1906

#Berryman feed water heater in collieries
Engineer (Lond) 1 C. 91 : 171 Feb. 7, 1906
OPEN HEATERS.

• Feed water heating—American practice (W.W. Christie)
  Cassier's 24 C.  24 : 23  Aug. 1902

• Otis feed water heater, oil separator, and filter combined
  American Electrician 1 C.  17 : 106  Feb. 1905

• Murray feed water heater and purifier
  American Elect. 1 C.  17 : 167  Mar. 1905

• The Webster heater
  American Elect. 1 C.  14 : 532  Dec. 1905
  Engineer U.S.A. 7 C.  40 : 420  June 15, 1905

• Open feed water heaters and their application (W.T. Edwards)
  American Elect. 2 C.  17 : 101  Sept. 1905

Open heaters
  Engineer U.S.A.  47 : 17  Jan. 1, 1906
Dry steam feed water heater
Engineer (Lon) 1 C. 27 : 605
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Chevallet feed water heater and softener
Engineering 1 C. 69 : 317
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Stillwell's heater
Engineer Record 1 C. 41 : 200
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Engineering Record 2 C. 47 : 457
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Cookson heater, purifier, and separator
Power 1 C. 16 : 13
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The Keller heater
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Stickle open heater and purifier
Power 3 C. 25 : 707
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Bonar heater and purifier
St. Ry. Journal 1 C. 15 : 80
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The Cochrane open heater
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GENERAL.

Live steam feed water heaters (J.F. Durand)
American Elect. 5 C. 15 : 214 May 1900

Feed water heating
Elect. Rev. (Lond) 1 C. 47 : 218 Dec. 3, 1900

Heater problem from a commercial point of view (H.L. Henburn)
Powe 7 C. 22 : 11 Apr. 1902

Open feed water heater (F.T. Walsh)

Feed water heating (A.T. Strohm)
American Elect. 3 C. 16 : 570 Dec. 1904

Feed water heating and boiler feeding (Edt)
American Elect. 1 C. 17 : 81 Feb. 1901

Feed water heating
Engineer U.S.A. 47 : 2 Jan. 1, 1906

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Feed water heaters vs. economizers (Edt)
American Elect. 2 C. 11 : 785 Aug. 1909

Economy of feedwater heating
American Elect. 1 C. 17 : 152 Nov. 1905

Economical effect of live steam feed water heating
Elect. Rev. (Lond) 2 C. 47 : 677 May 20, 1905

Location of feed water heaters and feed pipes (T.H. Waeman)
Engineer U.S.A. 4 C. 42 : 133 Feb. 15, 1905

Economy of heating by live steam (Edt)
Engineering Record 1 C. 27 : 667 Apr. 30, 1909
Value, condensation, etc., of feed water heaters (H.C. Movers)
Engineering News 6 C. 47 : 294 Nov. 2, 1901

Feed water heaters in condensing plants (C.G. Robbins)
Power 11 C. 28 : 13 Feb. 1902

Comparative methods of heating feed water
Power 11 C. 28 : 26 Nov. 1900

Ratings of feed water heaters (Ed)
Power 1 C. 25 : 70 Jan. 1901

Cleveland Stone Co's. feed and condensing system
Power 1 C. 24 : 40 Aug. 1904

An economical feed water heating arrangement
Power 1 C. 25 : 219 Apr. 1905

Some phases of the feed water heater problem (W.E. Harrington)

Open and closed feed water heaters
Engineer U.C.A. 47 : 72 Jan. 1, 1906

Combined feed water heater and hot well
Engineer U.C.A. 47 : 977 Apr. 16, 1906

The economy of the feed water heater (O.S. Pederson)
Engineer U.C.A. 6 C. 47 : 560 Aug. 15, 1904

Feed water for steam turbine plants
Engineer U.C.A. 7 C. 47 : 102 Mch. 1, 1905
Theory.

Feed water heaters (C.I. Hubbard)

Feed water heaters (C.R. Briggs)
Engineer (Lon.) 5 C. 100 : 77 July 28, 1905

The feed water heater (A.R. Elliott)
Engineering 6 C. 59 : 67 January 11, 1905
5 C. 97 January 12, 1905
2 C. 101 February 2, 1905

Coefficients for calculating the heating surface of feed water heaters (C.R. Waymouth)
Poyer 1 C. 26 : 26 May 1905

Computing the heating surface required for feed water heaters
St. Ry. Journal 1 C. 20 : 107 July 19, 1905
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Feed Water Purification.

**DESCRIPTIVE.**

**ARCHBUTT-DEITLEY**
The Archbutt-Deeley water softening process

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**KENNICOTT**

*Practical softening of water (C.L. Kennicott)*

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**MISCELLANEOUS.**

*The Criton purifier*

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*The Rational water purifier*

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*Brunn automatic water softener*

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*Water softener and purifier*

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*Beissel continuous water softener*

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*Woolaston water softener*

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Recent practice in purifying feed water for locomotives
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  Engineering News 5 C.  49 : 296  Apr. 2, 1903
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Notes on the softening of Iowa well waters (N. Knight)
Chemical Engineer 6 P. 2 : 39 June 1905

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Relation of Rate of Evaporation to Fuel Economy (A.D. Ennil). American Electrician 1 C. 17 : 521 Nov. 1903

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*Mechanical draft apparatus
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*Special mechanical induced draft fan
  Power 2 C. 21 : 16  June 1901

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Engineering Record 51 : 92 Jan. 28, 1905

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Power 18 : 7 June 1893

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St. Ry. Rev. 9 : 613 Sept. 15, 1899
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Engineer U.S.A. 79 : 57 May 15, 1902

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St. Ry. Rev. 9 : 10 Jan. 15, 1899

Union tect Co., Anderson, Ind.
Engineering Record 47 : 495 May 25, 1901
St. Ry. Journal 12 : 926 Dec. 1901

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Engineering Record 46 : 56 July 19, 1902

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Western Electrician 24 : 1 Jan. 7, 1899

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Engineering News 45 : 318 May 2, 1901

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Worcester and Blackstone Valley phase Ry.
Engineering Record 47 : 463 May 2, 1903

Warren & Jamestown single phase Ry.
Electrical World 47 : 763 Feb. 17, 1906
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- Engineering News
- St. Ry. Journal
- Engineering Record
- Western Pa. Ry. & Light System
- St. Ry. Journal
- Zanesville Ry. & Light Co.
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*Amsterdam-Harlem electric Ry.
  Engineering Record  51 : 18  Jan. 17, 1905

*Brocklyn Rapid Transit, Williamsburg, plant
  St. Ry. Journal  26 : 282  Sept. 23, 1905

*Champ generating station
  American Electrician  17 : 65  Feb. 1905

*Clyde valley electric power Co.
  Engineering Record  52 : 299  Sept. 9, 1905

*Chelsea generation station of the London Underground
  Engineering Record  52 : 215  Feb. 25, 1905
  Power  23 : 421  Aug. 1905
  St. Ry. Journal  25 : 388  Mch. 4, 1905

*Commonwealth electric Co., Fisk St. station
  Western Electrician  78 : 55  Jan. 20, 1906

Dubuque, Ia. power plant
  Engineering Record  50 : 202  Aug. 13, 1904

Detroit Edison Co.
  Engineering Record  52 : 194  Oct. 7, 1905

*DeBeer's consolidated mines
  Engineering Record  51 : 4  Jan. 7, 1905

*Edison electric illumination Co., Boston
  Engineering Record  51 : 150  Feb. 11, 1905
  Power  25 : 389  July 1905

*Hartford electric light Co., Dutch Point plant
  Engineering Record  51 : 204  Feb. 25, 1905

*Long Island R.R. power house
  Engineering Record  49 : 454  Apr. 9, 1904

*Mexican Central shops at Aguascalientes
  Engineering Record  50 : 227  Aug. 20, 1904

*Municipal turbine plant, Anderson, Ind.
  Engineer U.S.A.  42 : 641  Oct. 2, 1905

*Manchester, England power station
  St. Ry. Journal  25 : 234  May 27, 1905

*New York Edison, Waterside station
  Electrical World  46 : 393  Sept. 2, 1905

  Power  22 : 1  Jan. 1902
New Orleans power house
Power 24 : 651 Nov. 1904
St. Ry. Rev. 9 : 397 June 15, 1899

New Bedford power station
St. Ry. Rev. 11 : 884 Dec. 1901

*Old Colony St. Ry., Quincy Point Sta.
Engineering Record 51 : 646 June 10, 1905
St. Ry. Journal 25 : 1022 June 10, 1905
Engineer U.S.A. 43 : 85 Jan. 15, 1906

*Steam turbine plant at a Poughkeepsie, N. Y. shop
Engineering Record 51 : 454 Apr. 1905

*Portland General Electric Co.
Engineering Record 52 : 176 Aug. 12, 1905

*Pacific Coast power and light station
Power 18 : 1 May 1898

*Public service corporation
St. Ry. Journal 35 : 323 Feb. 18, 1905

*Terre Haute Traction and light Co.
Engineering Record 51 : 141 Feb. 4, 1905

*United railways of San Francisco
Power 25 : 455 Aug. 1905

*Yale & Towne Mfg. Co.
Power 24 : 255 May 1904
Isolated Stations.

APARTMENTS.
*Coolingwood apartment hotel, N. Y.
   Engineering Record 46 : 723  Apr. 5, 1902
*Ansonia apartment hotel, N. Y.
   Engineering Record 46 : 467  Nov. 15, 1902

HOSPITALS.
*Agnes Memorial Sanatarium
   Engineering Record 50 : 312  Sept. 10, 1904
*Connecticut Hospital for the Insane
   Engineering Record 57 : 44  July 8, 1905
*Lakeside Hospital, Cleveland, Ohio.
   Engineer U.S.A. 79 : 108  Feb. 15, 1902
*Mass. General Hospital, Boston.
   A.S.M.E. 22 : 392  Jan. 1901

HOTELS.
*Bellevue-Stratford hotel, Phila.
   Engineering Record 51 : 14  Jan. 7, 1905
*Hotel Belmont, N. Y.
   Engineering Record 52 : 779  Dec. 30, 1905
      57 : 9  Jan. 6, 1906
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McCormick Twin Mills
Western Electrician 28:109  Feb. 16, 1901

National Cash Register Co., Dayton
Engineer U.S.A. 39:136  Mch. 1, 1902

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Engineer U.S.A. 41:231  Apr. 1, 1904

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Engineer U.S.A. 38:380  Oct. 15, 1901

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Engineer U.S.A. 78:424  Nov. 15, 1901

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Engineer U.S.A. 78:445  Dec. 1, 1901

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American Electrician 13:149  Apr. 1901

Stickney & Poor spice factory, Charlestown, Mass.
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Engineering Record 52:198  Aug. 15, 1905

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Engineering Record 51:510  May 6, 1905

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Engineering 66:533  Oct. 21, 1898

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- **Boston south terminal station**
  - Engineering Record 79:346  
  - Mch. 10, 1899

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  - American Electrician 17:121  
  - Mch. 1905

- **Birmingham University (C.A. Smith)**
  - Engineering 60:541
  - 397
  - 507  
  - Sept. 15, 1905

- **Bryn Maur College (C. G. Gray)**
  - Engineering Record 53:183  
  - Feb. 17, 1906

- **University of California**
  - Engineer U.S.A. 42:267  
  - Apr. 15, 1905

- **Chicago, Milwaukee, & St. Paul Ry. Shops**
  - Engineering Record 48:594  
  - Nov. 14, 1903

- **Columbia University**
  - Engineering Record 59:546  
  - May 13, 1899

- **University of Chicago**
  - Engineering Record 45:346  
  - Mch. 15, 1902

- **DuBois shops**
  - Engineering Record 46:216  
  - St. Ry. Journal 21:694  
  - Sept. 6, 1902
  - May 9, 1903

- **Elizabethport railroad shops**
  - Engineering Record 45:581  
  - June 21, 1902

- **Hippodrome, N. Y.**
  - Engineering Record 52:229  
  - Aug. 26, 1905

- **Harvard electric light plant (W.L. Robb)**
  - American Electrician 12:107  
  - Mch. 1900

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  - Engineering Record 52:507  
  - Nov. 4, 1905

- **Michigan University (H.S. Gerhart)**
  - Electrical World 31:550  
  - May 7, 1905

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  - Electrical World 77:914  
  - June 1, 1901

- **Ohio State University**
  - Engineer U.S.A. 79:164  
  - Electrical World 74:1005  
  - Mch. 15, 1902
  - Dec. 20, 1899

- **Princeton University**
  - Engineer U.S.A. 41:411  
  - June 15, 1904
Simmons College, Boston Engineering Record 51 : 161 Feb. 11, 1905

Scranton Schools Engineer U.S.A. 77 : 148 June 1, 1900

Power plant of a University (E.A. Darling) A.S.M.E. 20 : 663 1899
Keystone Bank Bldg., Pittsburg
American Electrician 15 : 171

*Kimball Bldg., Boston, (H.S. Knowlton)
Engineer U.S.A. 42 : 819 Dec. 15, 1905

Large and modern isolated plant
American Electrician 15 : 1

Land Title and Trust Bldg., Philadelphia
Electrical World 32 : 45

*Murphy Power Bldg.
Engineer U.S.A. 42 : 67 Jan. 16, 1905

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Engineering Record 47 : 85

Maiden Lane Bldg., N. Y.
Engineering Record 48 : 770

Methodist Book Conc. n., Chicago
Western Electrician 26 : 199

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Electrical World 32 : 627

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Engineer U.S.A. 40 : 787 June 1, 1903

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Power 25 : 297 May 1905

*First National Bank, Uniontown, Pa.
Engineering Record 46 : 13

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Power 24 : 419 July 1904
A.S.M.E. 20 : 880 1899

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Engineering 78 : 130 July 22, 1904
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A.S.M.E. 25 : 625 June 1904
1011
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Engineering Record 50: 4
Sept. 17, 1904

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Engineering Record 51: 162
Feb. 11, 1905

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Electrical World 32: 1
Oct. 1902

*Prudential Bldg., Newark, N. J.
Engineering Record 46: 767

*Pittsburg & Lake Erie terminal
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152
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Penn. R. R. station, Pittsburg
Engineering Record 46: 203
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*Rose Bldg., Cleveland
Engineer U.S.A. 78: 404
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Engineer U.S.A. 41: 767
Nov. 15, 1904

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Engineering Record 46: 36
July 12, 1902

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American Electrician 19: 67
Feb. 1900

*Rock Island Sta., Chicago
Engineering Record 46: 338
Sept. 19, 1903

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*Western Reserve Bldg.
Engineer U.S.A. 38: 87
Mch. 1, 1901

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Mch. 2, 1903
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Electrical World 46: 486 Sept. 16, 1905

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Engineering Record 50: 294 Sept. 3, 1904

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Engineer U.S.A. 40:131 Feb. 2, 1903

Marshall Field & Co.
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Western Electrician 51: 165 Sept. 13, 1902

N. Y. Federal Bldg.
Electrical World 31: 379 March 25, 1898

Government printing office
Electrical World 31: 94 Jan. 15, 1898
Engineering Record 31: 115 Jan. 27, 1898
51: 512 May 16, 1903
543 May 23, 1903

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Engineer U.S.A. 41: 443 July 1, 1904

Toetz store, Munich
Engineering Record 53: 160 Feb. 10, 1906

Wanamaker Store
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## Steam Traps

### Descriptive

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<td>Engineering</td>
<td>92 : 92</td>
<td>Jan. 20, 1905</td>
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<td>95 : 446</td>
<td>Apr. 5, 1903</td>
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*H. H. steam trap*

<table>
<thead>
<tr>
<th>Service</th>
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<tr>
<td>American Elect.</td>
<td>14 : 204</td>
<td>Apr. 1902</td>
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<td>Power</td>
<td>22 : 50</td>
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*Holden and Brook steam trap*

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<td>American Elect.</td>
<td>14 : 340</td>
<td>July 1902</td>
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<td>Engineer (Lond)</td>
<td>16 : 38</td>
<td>Jan. 1904</td>
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<td>96 : 774</td>
<td>Oct. 16, 1907</td>
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*Ideal steam trap*

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<td>Power</td>
<td>24 : 620</td>
<td>Nov. 1904</td>
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*Jenkins Bros. Simple trap, Jenkins Bros. Eng. & Mining Jour.*

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<tr>
<td>American Machinist</td>
<td>18 : 1024</td>
<td>Dec. 26, 1895</td>
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<td>Eng. &amp; Mining Jour.</td>
<td>61 : 257</td>
<td>Mar. 14, 1906</td>
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*Lamploughs steam trap*

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<td>Engineer</td>
<td>60 : 627</td>
<td>Nov. 11, 1908</td>
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*An improved steam trap*

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<td>American Elect.</td>
<td>10 : 794</td>
<td>Aug. 1899</td>
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*Return steam trap*

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<td>14 : 221</td>
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<td>Engineer (Lond)</td>
<td>97 : 331</td>
<td>April 4, 1902</td>
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*Simple expansion steam trap*

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<td>15 : 204</td>
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*Compound expansion steam trap*

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<td>American Elect.</td>
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*New boiler feed regulator and steam trap*

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<td>New steam trap</td>
<td>Elect. Rev. London (Lond)</td>
<td>36: 706</td>
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<td>Water seal steam trap</td>
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<td>31: 926</td>
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<td>32 : &quot;58</td>
<td>May 2, 1905</td>
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| **UNLEY** | **Tunley steam trap** | **Elect. Rev. (Lond)** | 46 : 726 | May 11, 1906 |
| **Tunley steam trap** | **Engineer (London)** | 10 : 97 | Aug. 10, 1906 |

| **THORPE & PLATT** | **Thorpe and Platt steam trap** | **Elect. World** | 26 : 766 | Dec. 19, 1906 |

| **VICTOR** | **Victor low pressure steam trap** | **American Elect.** | 15 : 431 | Aug. 1907 |

| **WRIGHT** | **Wright emergency trap** | **Engineering Rev.** | 11 : | July 20, 1901 |
| **Wright emergency trap** | **Power** | 19 : | June 19, 1902 |
| **St. Ry. Journal** | 21 : 17 | March 10, 1901 |

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| **GENERAL DESCRIPTION** | **Steam traps** | **Engineer U.** | 41 : 299, 558 | Jan. 16, 1905 |
| **Steam traps** | | 42 : 70 | May 1, 1905 |
| | | 168 | Apr. 15, 1905 |
| | | 269 | May 15, 1905 |
| | | 331 | June 15, 1905 |
| | | 404 | Sept. 1, 1905 |
| | | 582 | Oct. 2, 1905 |
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- American Machinist 27: 416 - Nov. 71, 1904

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- Engineer (Lon) 37: 141 - Feb. 5, 1907

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- Engineer U.S. 40: 455 - July 1, 1905

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- Engineering 76: 270 - Dec. 18, 1907

*A steam trap for very high pressures*
- Engineering 67: 719 - June 2, 1908

*A steam trap operated by a diaphragm*
- Engineering News 50: 570 - Dec. 24, 1907

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- Power 27: 402 - 1903

*A trap return system at the United States Military Academy*
- Power 25: 472 - July 1905

*A homemade steam trap*
- Power 24: 597 - Oct. 1904
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ADVANTAGES.

Advantages of steam turbines 1 C.
Engineer U.S.A. 30 : 532 Sept. 15, 1901.

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# Steam turbine for dynamo propulsion
American Electrician 13 : 504 Oct. 1901

# Recent steam turbine applications (C. I. Parsons) 14 C.
Cassier's Magazine 24 : 64 May 1907

# High speed work in electrical engines (B. A. Behrend) 3 C.

Data on the use and performance of steam turbines (F. N. Bushnell)
Machinery 2 C. 12 : 161 Nov. 1905

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AUXILIARIES.

Power required for condensing auxiliaries in a steam turbine plant (J. R. Bibbins)
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# Durability of the vanes in Westinghouse-Parsons steam turbine
(Westinghouse Machine Co.)
Engineer U.S.A. 5 C. 42 : 319 May 1, 1905
Interesting photographs of steam turbine blades
Machinery 3 C. 11 : 471 May 1905

CLASSIFICATION.
*Classification and peculiarities of the steam turbine
Engineering Record 6 C. 52 : 291 Sept. 9, 1905

COMPARISON.
Comparison between steam turbine and the reciprocating engine
(Seymour & Hodgkinson)

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<td>Leakage</td>
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<td>Efficiency</td>
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<td>Maintenance</td>
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<td>Cost</td>
<td>High</td>
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Reciprocating engine vs. turbine (W. O. Webber)
Engineer U.S.A. 1 C. 42 : 711 Nov. 1, 1905

Reciprocating sets vs. turbo generators (I. W. Chebb)
Power 6 C. 24 : 232 Apr. 1904

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Power 2 C. 24 : 298 May 1904

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Engineering Record 2 C. 52 : 137 Aug. 5, 1905
CONDENSERS FOR?
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Some problems in steam turbine design (L. C. Lowenstein)
Engineering Record 7 C. 52 : 101 July 22, 1905

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Engineering Record 3 C. 49 : 581 May 7, 1904

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Engineer Lond. 3 C. 97 : 34 Jan. 8, 1904

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Turbines in new Williamsburg power plant of Brooklyn R.T. Co.
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Crocker steam turbine (F. C. Crocker)
Electrical World 2 C. 44 : 326 Aug. 27, 1904

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Engineering Record 1 C. 50 : 290 Sept. 3, 1904

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Western Electrician 1 C. 36 : 297 Apr. 15, 1905
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Recent steam turbine developments (W. L. R. Emmet)
Electrical World 42 : 434 Sept. 12, 1903

#Steam turbine in modern engineering (W. L. R. Emmet)
Engineering News 3 C. 51 : 552 June 9, 1904
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Engineering 70 : 97 July 15, 1904
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#Advantages of the steam turbines for textile mills (A. R. Dodge)
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Western Electrician 4 C. 53 : 297 Oct. 17, 1903
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Discussion on the steam turbine at the American St. Ry. Ass'n.
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#New steam turbine development (W. L. R. Emmet)
Western Electrician 4 C. 34 : 593 May 14, 1904
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#Curtis steam turbine-General Electric Co.
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#Curtis steam turbine
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#Step bearing of the Curtis steam turbine
Electrical World 45 : 1136 June 17, 1905
Curtis steam turbines
Iron Age 2 C. 71 : 18 May 21, 1903

*Curtis steam turbine
Power 8 C. 23 : 254 May 1903

Mr. Emmet on the steam turbine
Western Electrician 4 C. 33 : 159 Aug. 29, 1903

Turbine developments
Power 24 : 244 Apr. 1904

*Steam turbines at the St. Louis exposition
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*Steam turbine reports to the N.E.I.A. (Elgin, Sargent & Dunham)
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*The steam turbine in central station practice (W. L. R. Emmet)
Electrical Age 12 C. 37 : 336 Nov. 1904

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*Emmet-Junggren turbo generator
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*Curtis steam turbine
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1 C. 859
DE LVAL.

*De Laval steam turbine

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The De Laval steam turbine in America (J. L. Mohun)

*Types of De Laval turbine units

Electrical World 3 C. 46 : 194 July 29, 1905

De Laval steam turbine (Lea and Meden)

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*Hamilton-Holzworth steam turbine
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*Triple expansion steam turbine
Engineer U.S.A. 1 C. 37 : 5 Jan. 1, 1900

*High power steam turbine
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*Practical data on European practice with steam turbines (F. Koester)
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*Data of the A.E.G. steam turbine (F. Koester)
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*Review of steam turbine patents (con. art.)
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221 Feb. 1905
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The steam turbine (F. G. Gasche)
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St. Ry. Jour. 3 C. 23 : 259 June 4, 1904

Rateau.
Different applications of the steam turbine (A. Rateau)
Engineering News 15 C. 51 : 544 June 9, 1904
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Recent developments of the steam turbine (A. Rateau)
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Operation of the Rateau turbine

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Riedler-Stumpf turbine
Electrical World 1 C. 42 : 345 Nov. 21, 1903
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A Riedler steam turbine
Iron Age 1 col. 72 : 23 Nov. 26, 1903

Riedler-Stumpf turbine and its applications
Power 13 C. 24 : 332 Oct. 1904

Improvements in the Stumpf turbine
Western Electrician 1 C. 35 : 27 July 9, 1904

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Warren-Crocker steam turbine (E. C. Crocker)
Engineer U.S.A. 4 C. 41 : 645 Sept. 15, 1904
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Power 3 C. 25 : 580 June 1905
Engineering News 4 C. 54 : 494 Nov. 9, 1905

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Practical notes on the steam turbine (F. Hodgkinson)
American Electrician 16 : 335 July 1904
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*Present development of the steam turbine (E. Yawger)
Electrical World 5 C. 40 : 906 Dec. 6, 1902

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An epoch in the turbine art
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*The Westinghouse turbine at St. Louis
Electrical World 4 C. 44 : 427 Sept. 17, 1904

Westinghouse-Parsons steam turbine
Power 3 C. 25 : 580 June 1905
Engineering News 4 C. 54 : 494 Nov. 9, 1905
### Westinghouse vertical steam turbine

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<td>24:265</td>
<td>34:286</td>
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May 1904

Mch. 19, 1904

### Steam turbines at the St. Louis exposition

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### Commercial aspects of the steam turbine (E. H. Sniffin)

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### High power steam turbine

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Jan. 9, 1904

### Some theoretical and practical considerations of steam turbines (F. Hodgkinson)

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### Zoelly steam turbines

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