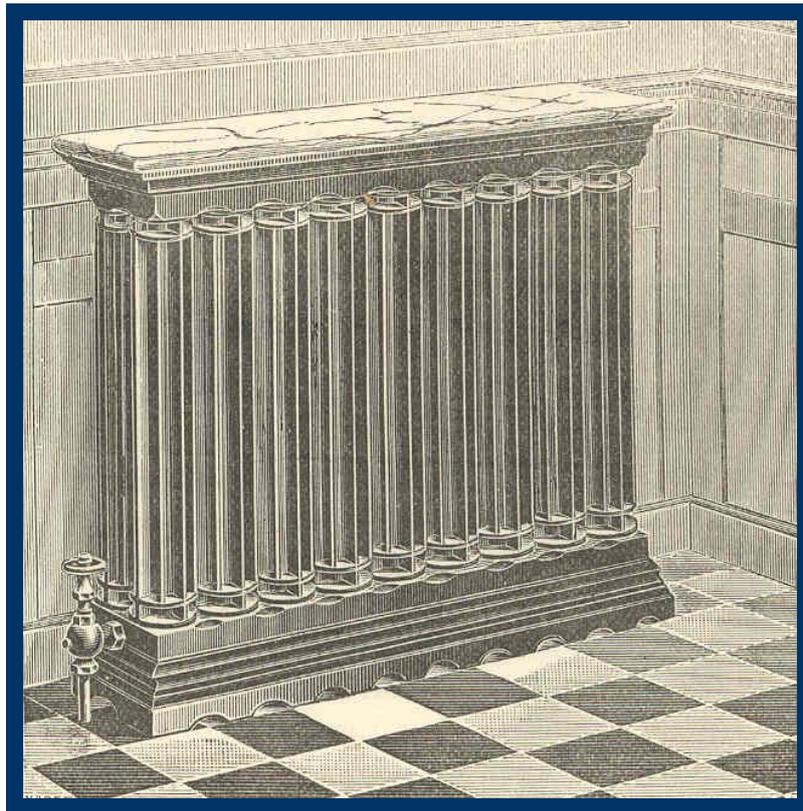




American Radiator Co plaque, 1904

A History of the Radiator

Brian Roberts & Paul Yunnie



Victorian ventilating radiator with ribbed pipes
William Graham & Sons, 35 Upper Thames, Street, London, 1897



The "Elmwood" sectional column radiator with gold decoration
Manufactured by the Elmwood Iron Works Chicago
[Domestic Engineering, c.1890]

MANUFACTURERS TO
HIS MAJESTY THE KING
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H.M. OFFICE OF WORKS
LONDON COUNTY COUNCIL

Telegraphic Address: "FOUNDRY, BEESTON, NOTTS."
Codes: A.B.C. 5th Edition and BENTLEYS.

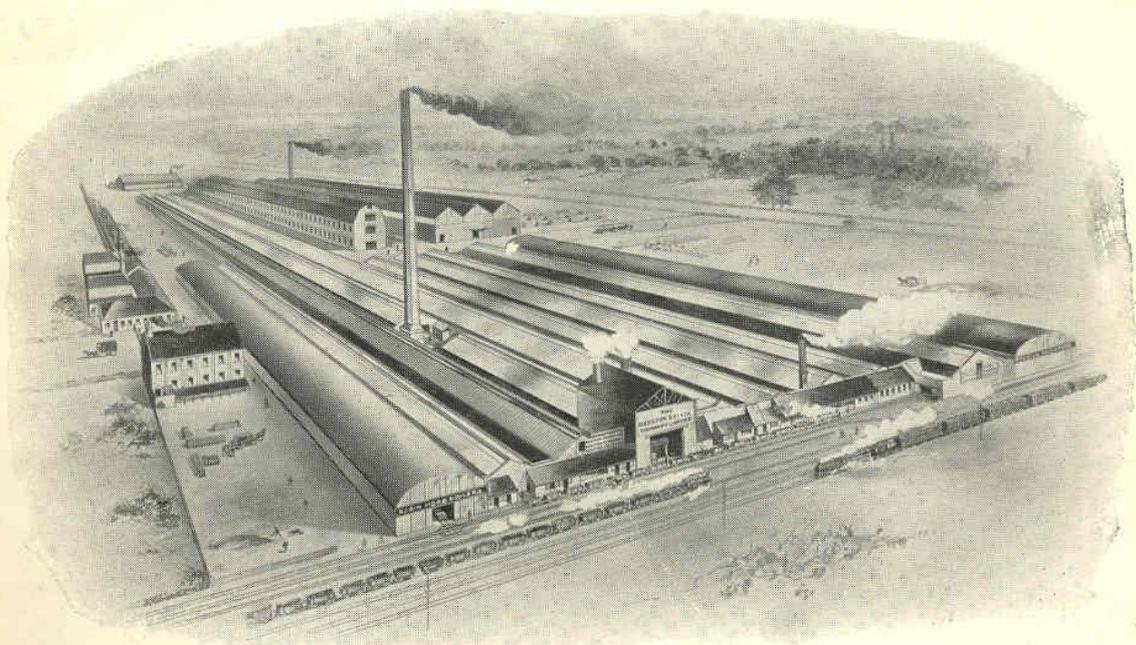
Telephone No. 54271
BEESTON (3 lines).

The Beeston Boiler Co.

(Formerly THE BEESTON FOUNDRY CO. LTD.) LTD.

BEESTON, NOTTS

MANUFACTURERS OF ALL DESCRIPTIONS OF
HEATING APPARATUS



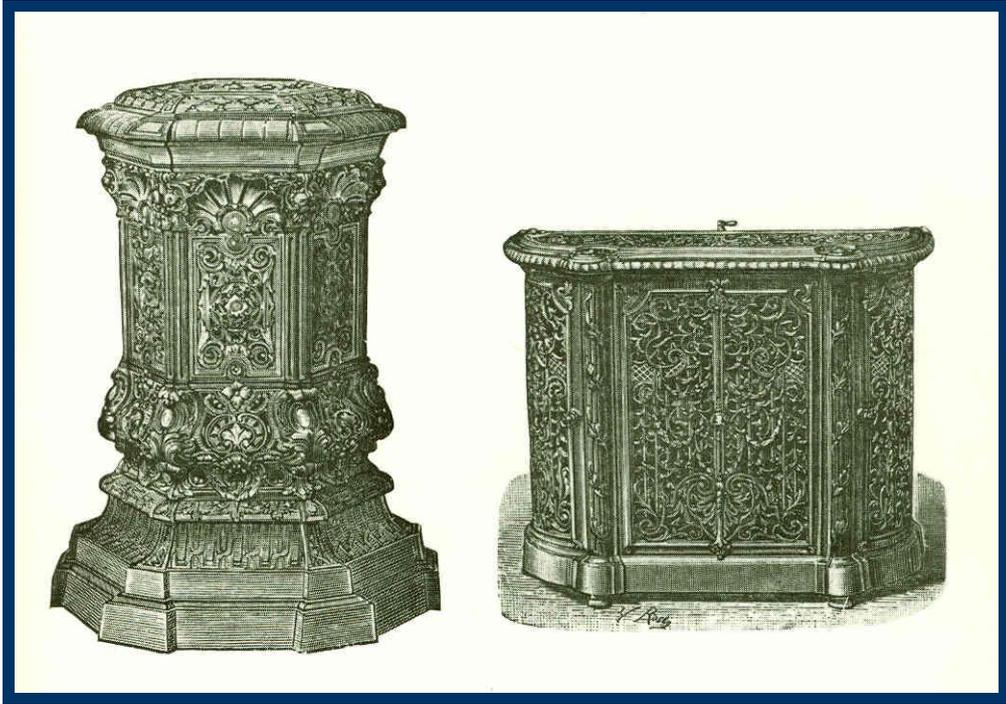
VIEW OF ROBIN HOOD BOILER AND RADIATOR WORKS, BEESTON.
Frontage—600 feet. Total area—20 acres.

20,000 TONS OF BOILERS, RADIATORS, PIPES
AND VALVES MANUFACTURED ANNUALLY

Please do not tear pages out of Catalogue; we are always willing to supply loose sheets.

ALL PREVIOUS LISTS CANCELLED.

1932.



Electric heaters [Catalogue of Crompton & Company, c.1900]

DRAKE & GORHAM, Ltd.

ELECTRIC RADIATORS—*continued.*



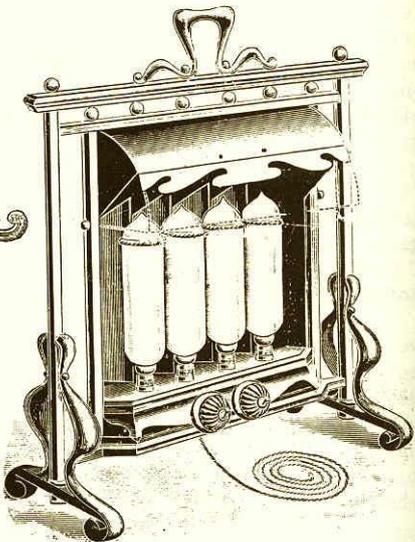
Type 433.

Type 433.—Louis XV. French Type Fan-shaped Patent Coppered Reflector with yellow copper frame, green, bronze and copper ornaments, highly artistic type in the French Rococo style.

Recommended for Drawing Rooms and Reception Rooms.

Price £15 15 0

Price for other types on application.



Type 500A.

Type 500A.—As above, but with movable canopy, as shown.

Price £11 11 0

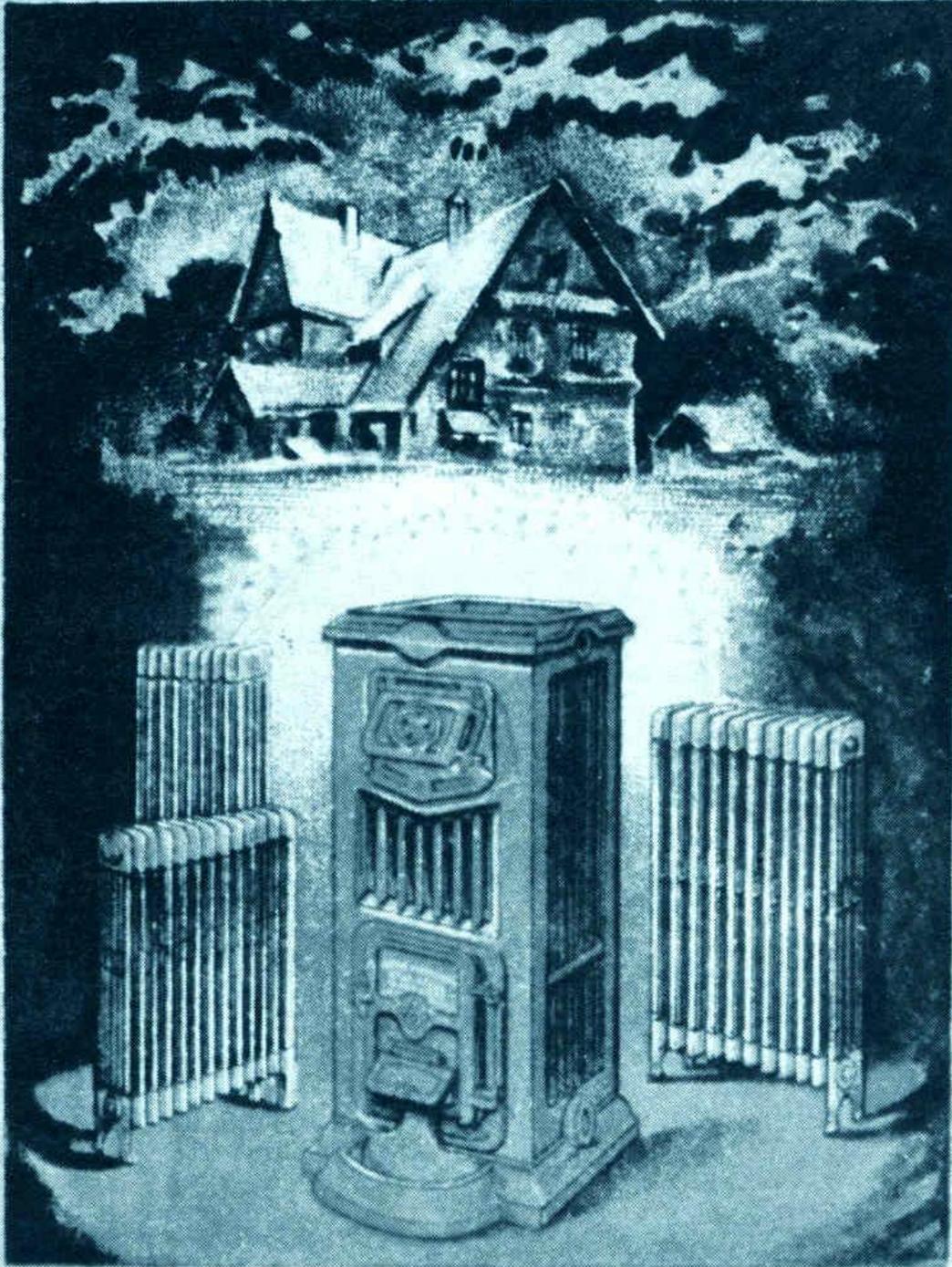
Type 500.—English Square Type Brass Frame Coppered Reflector, with fixed canopy.

Price £10 10 0

DRAKE & GORHAM, Ltd., 66, VICTORIA STREET, LONDON, S.W.

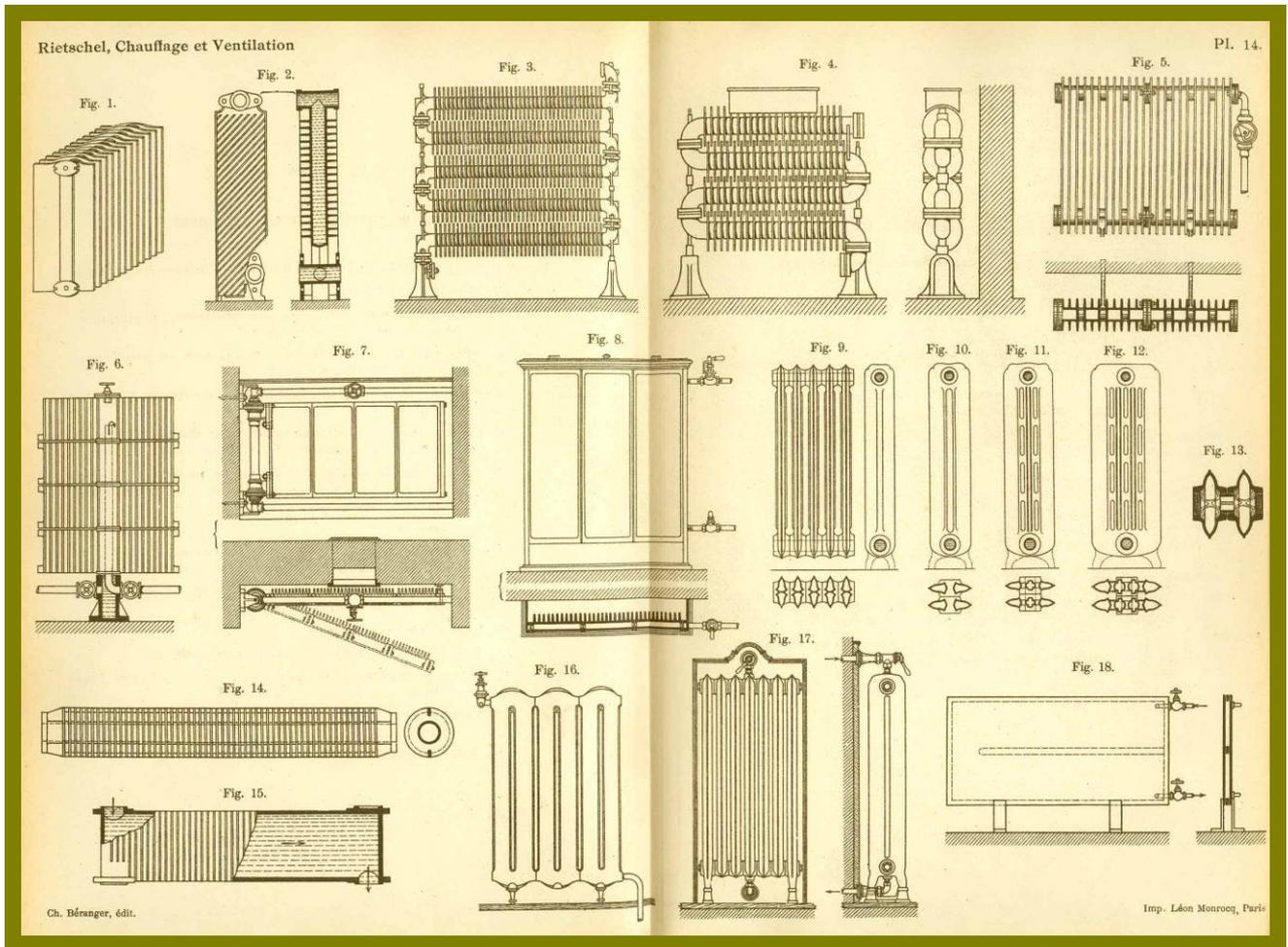
Electric radiators using glow lamps with reflectors, Drake & Gorham Ltd [Building Services Engineering, Neville S Billington & Brian M Roberts, 1982]

POUR VOTRE MAISON



ADOPTÉZ le CHAUFFAGE "IDEAL CLASSIC"
PAR EAU CHAUDE QUI VOUS ASSURERA TRÈS
ECONOMIQUEMENT LE CONFORT MODERNE

French advertisement for "Ideal Classic," Compagnie Nationale des Radiateurs
[Restoration Project, George Fuller, Building Services, May 1983]



A variety of European radiators (Corps de chauffe pour eau et vapeur)
 [Traité Théorique et Pratique de Chauffage et de Ventilation, H Rietschel, 1911]

The following manufacturers have been identified: 2 Körting frères, 5 Käuffer et Cie,
 6 Usines Métallurgiques Kaiserslautern, 7 & 17 Rietschel et Henneberg
 9-12 Compagnie Nationale des Radiateurs, 16 Sulzer frères

LONGDEN & CO.

PHŒNIX FOUNDRY, SHEFFIELD.

SOLE MAKERS OF THE "SUNBEAM" PATENT RADIATORS.

Prepared either for steam or hot water.

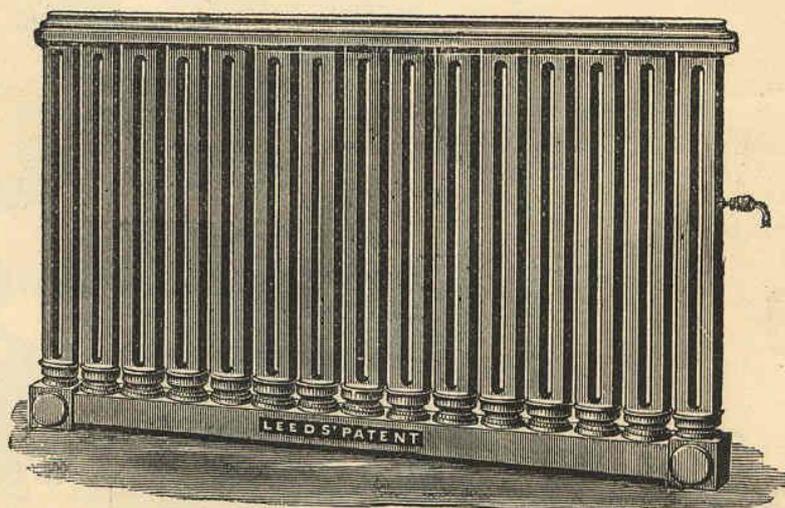
All joints are screwed.

No India-rubber or other packing used.

10,000 Radiators of our make in use in Great Britain.

Made in circular and other forms.

Estimates and plans given to architects
for warming buildings on any system,



also for hot-
water circulation and cooking apparatus.

Trade

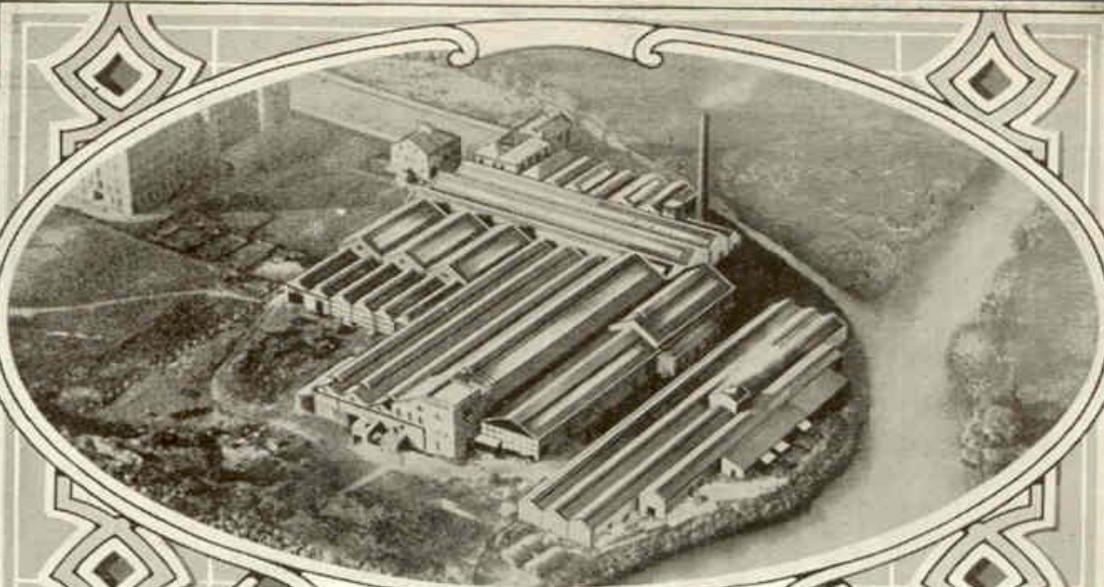
SUNBEAM.

Mark.

LONDON OFFICE : 447 OXFORD STREET, W.

These Radiators are used in the following places :—

New Town Hall, Sheffield; National Portrait Gallery, Edinburgh; Natural History Museum, South Kensington; New Assize Courts, Birmingham and Nottingham; Guild-hall, Gloucester; Hove Town Hall; Ventnor Royal Hospital for Consumption; Polytechnic Institute, Regent Street, London; St. Paul's Schools, West Kensington, London; Coats' Memorial Church, Paisley; and many other public and private edifices.



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Mr E. REDMAN 142 Hanging Lane Northfield Birmingham
Telephone Priory 1329

Scottish Representative

Mr R. R. KING "Ravenswood" Broomieknowe Lasswade N.B
Telephone Lasswade 97

Bristol District Representative

Mr F. W. LEACH 33 Royal York Crescent Clifton Bristol
Telephone Bristol 35751

London Office and Showroom

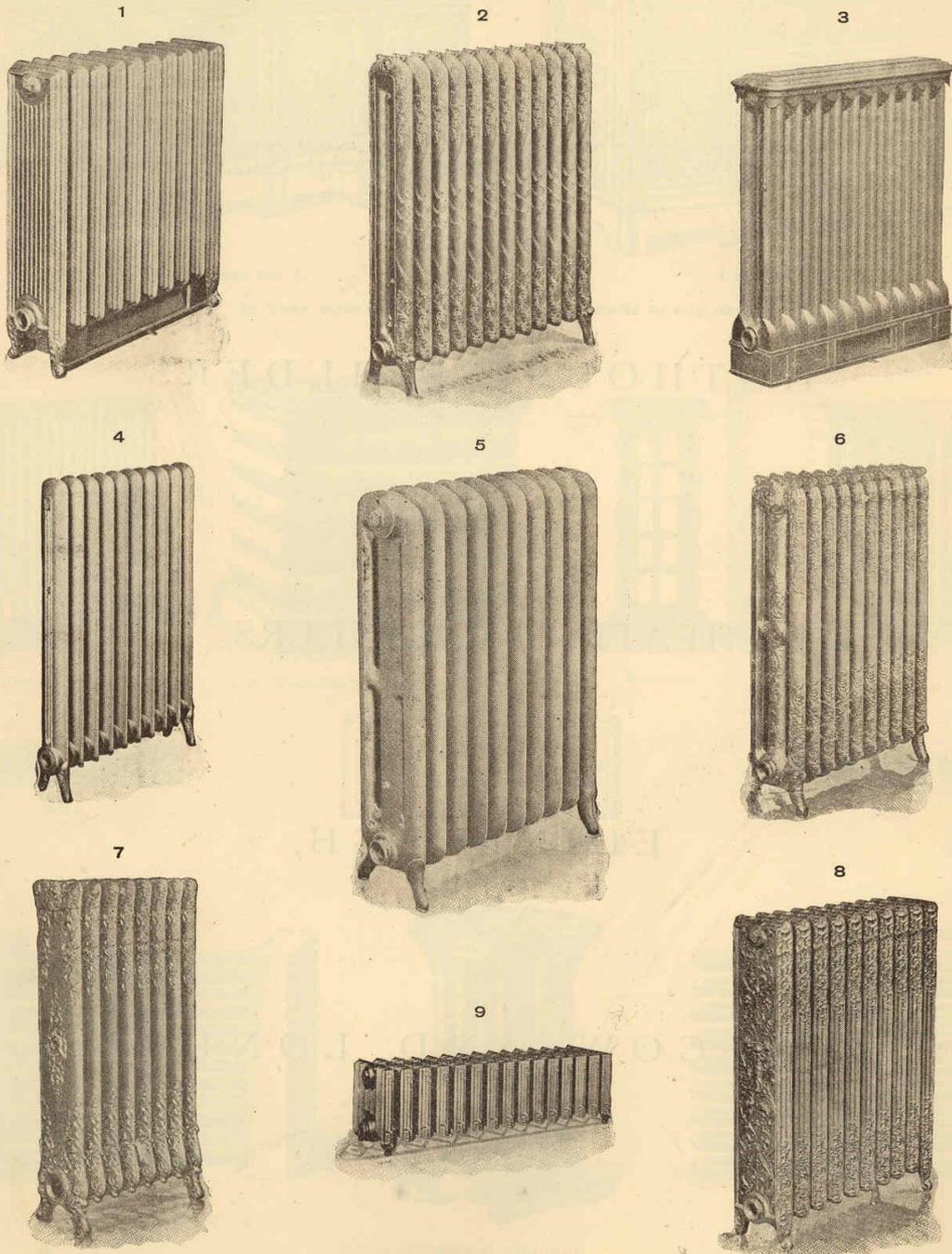
Mr B. A. POUNTNEY 228 SHAFTESBURY AVENUE WC2
Telephone Temple Bar 2725 (Facing New Oxford Street)
Telegrams "Solarisms Westcent London"



LONDON OFFICE AND SHOWROOM

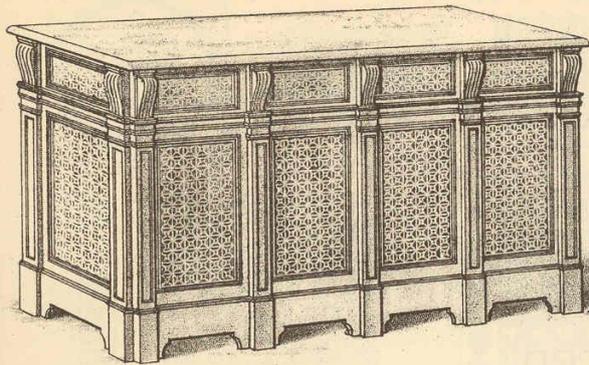
Works and London Showroom of Lumbys Limited, Halifax
[Catalogue of "Solar" Boilers & Radiators, 1937]

RADIATORS.

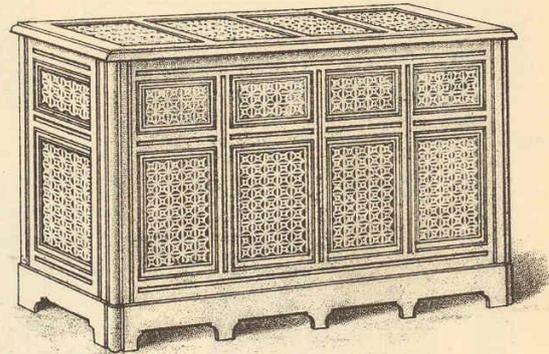


MACKENZIE & MONCUR, EDINBURGH, GLASGOW, AND LONDON.

A selection of radiators [Catalogue of Mackenzie & Moncur Limited, 1900
Hothouse Builders and Heating & Ventilating Engineers, Edinburgh & London]

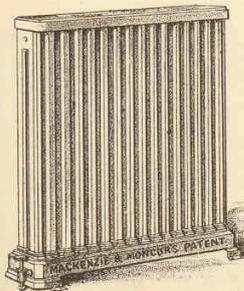


Coil Case No. 1.

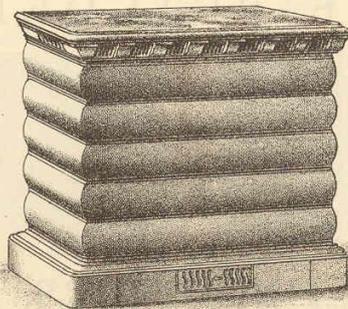


Coil Case No. 2.

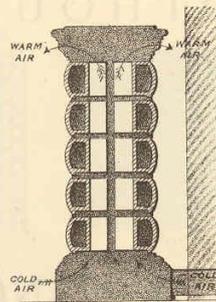
In Teak with Grating Panels—can be made to any design.



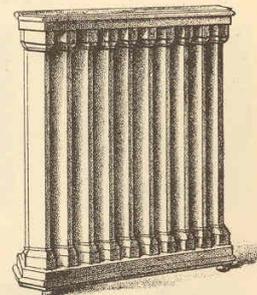
Radiator No. 1.



Ventilating Radiator.



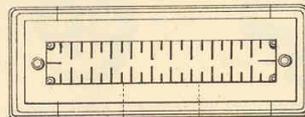
Section.



Radiator No. 2.



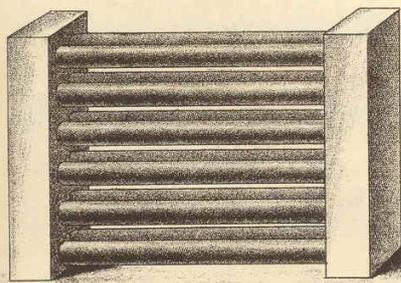
Plan.



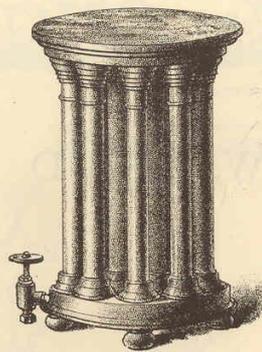
Plan.



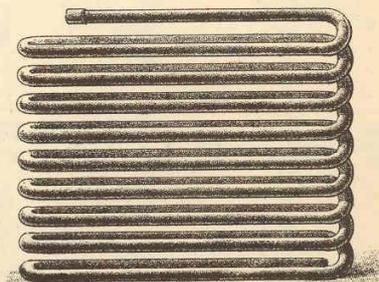
Plan.



Low-Pressure Coil.
All Sizes.



Pedestal Radiator.



High-Pressure Coil.
All Sizes.

J. McVillie & Sons, Lith. Edin.

MACKENZIE & MONCUR, EDINBURGH, GLASGOW, AND LONDON.

Some radiators, coils & coil cases [Catalogue of Mackenzie & Moncur Limited, 1900
Hothouse Builders and Heating & Ventilating Engineers, Edinburgh & London]



John Bartlett Pierce

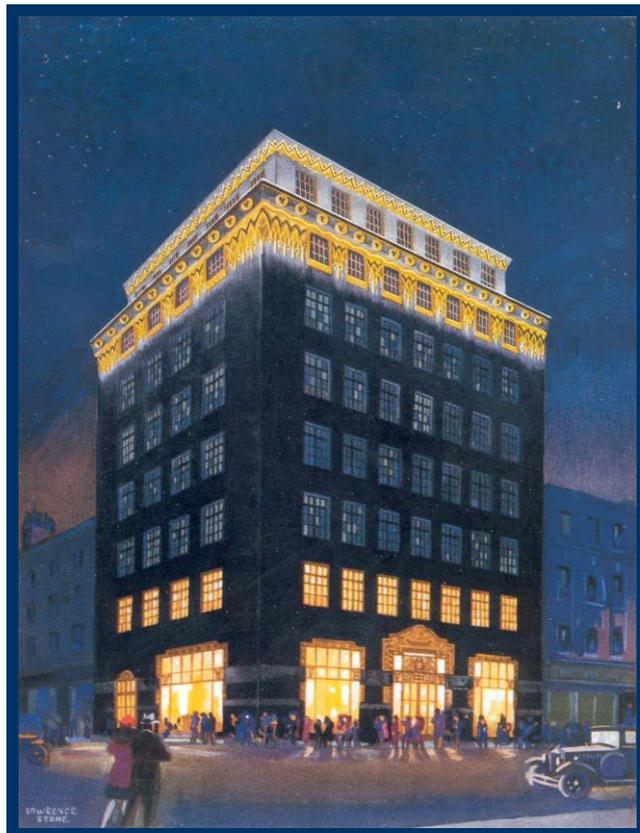
Born 1844 in Embden, Maine, founded the Pierce Steam Heating Company, which manufactured cast iron radiators. In 1892, Pierce merged his company with two others to become the American Radiator Company



American Radiator Building
New York, 1924
Architects Hood & Fouilhoux

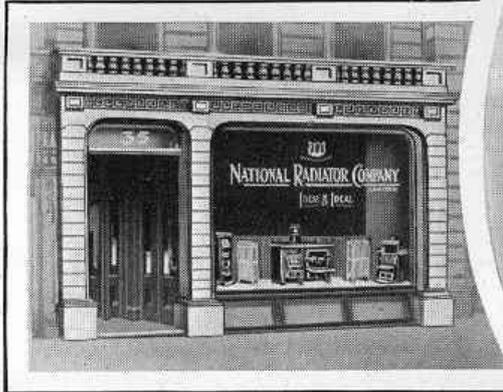


National Radiator, Hull
A UK factory was established in the early 1900s

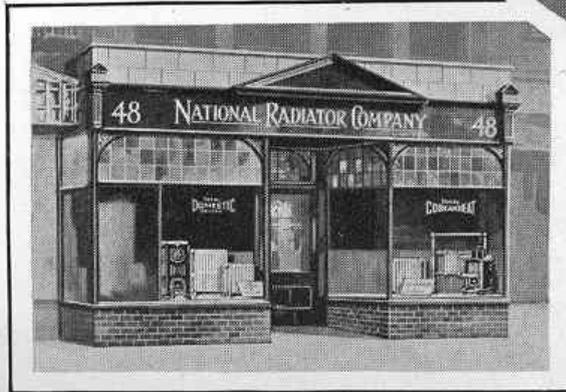


National Radiator Building
Great Marlborough Street, London, 1928
Architects Hood & Jeeves
[Art Deco Architecture, Patricia Bayer, 1999]

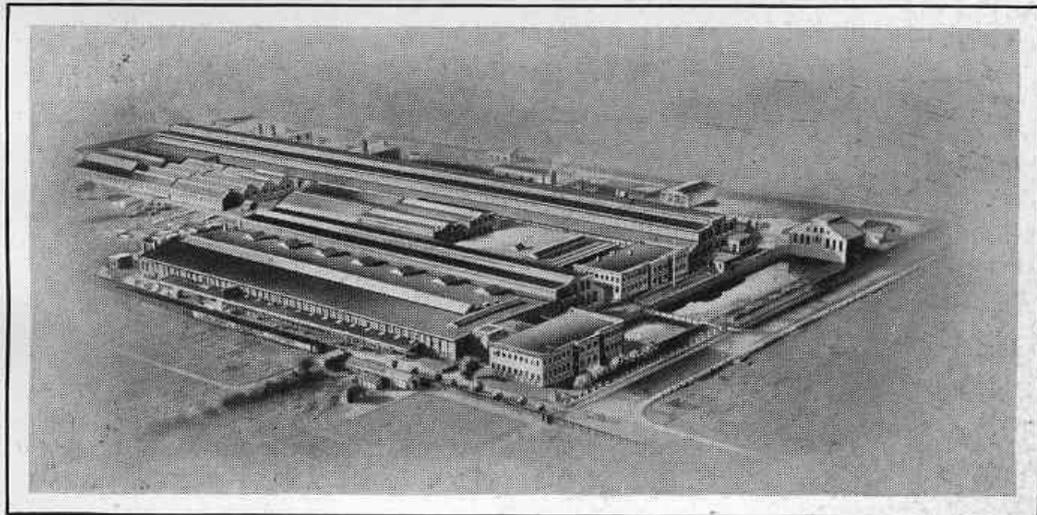
London Showrooms
IDEAL HOUSE
Great Marlborough Street W1



Birmingham Showroom
35 Paradise Street

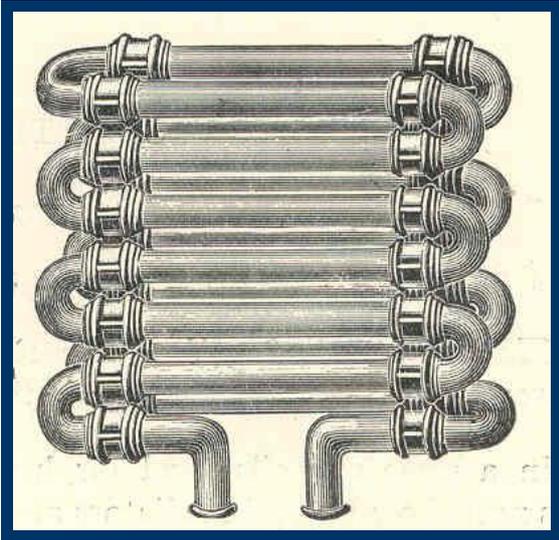


Brighton Showroom
48 Grand Parade

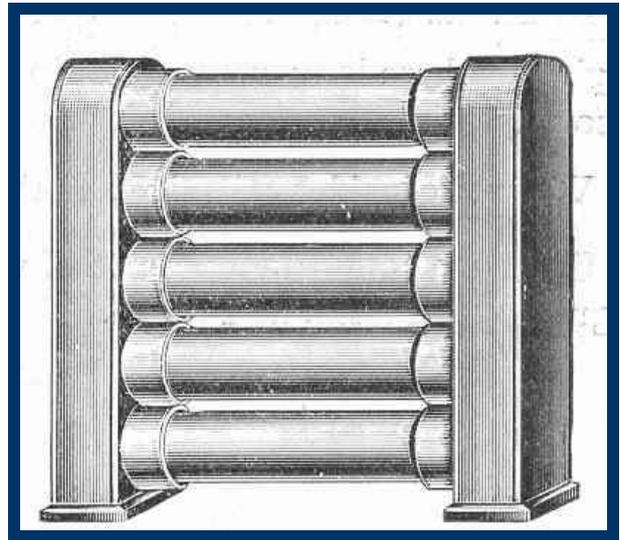


IDEAL WORKS, HULL, YORKS.
(Area 50 acres)

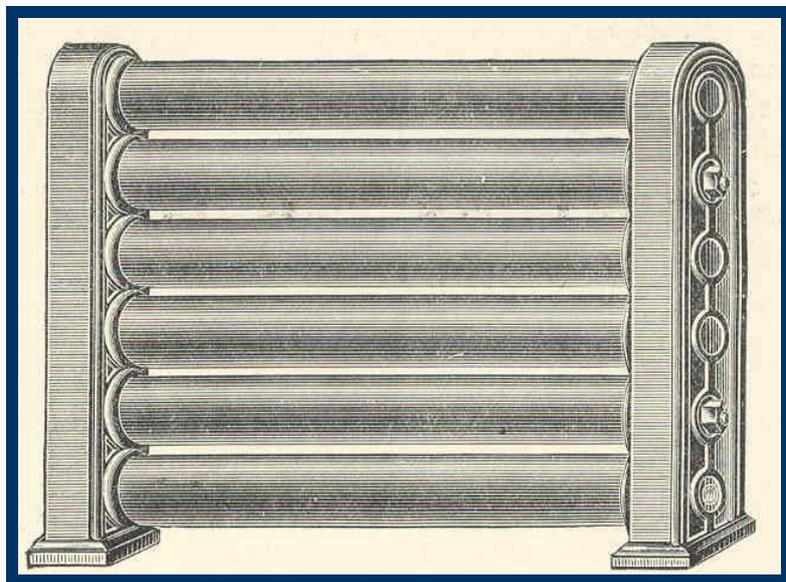
Showrooms and Works of The National Radiator Company Limited
[Ideal Manual, 1930]



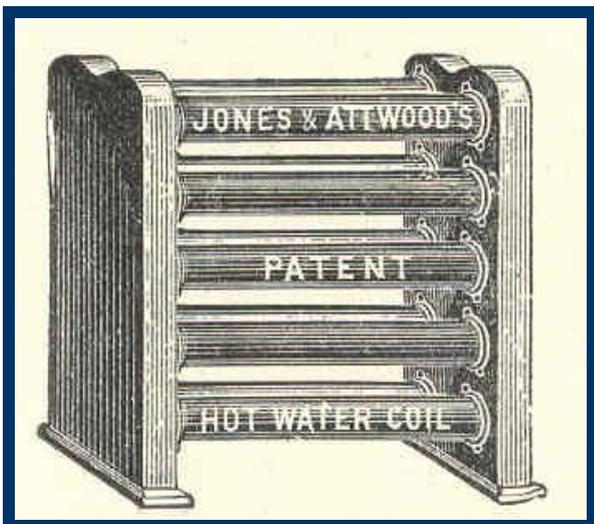
Cast iron socket heating coil with return bends



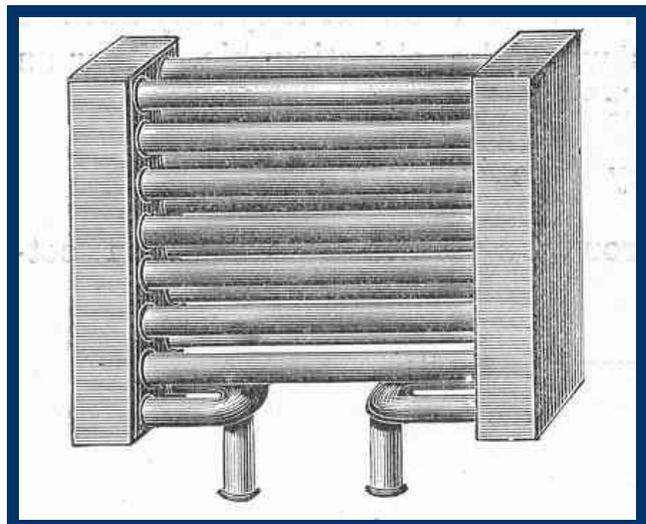
Box end heating coil with external sockets



Rubber jointed heating coil



Heating coil with rubber joint rings compressed with bolts & nuts, Walter Jones, 1876



Box end heating coil with internal sockets



Perkins high pressure hot water heating coil
St Mary's Church, East Brent, Somerset



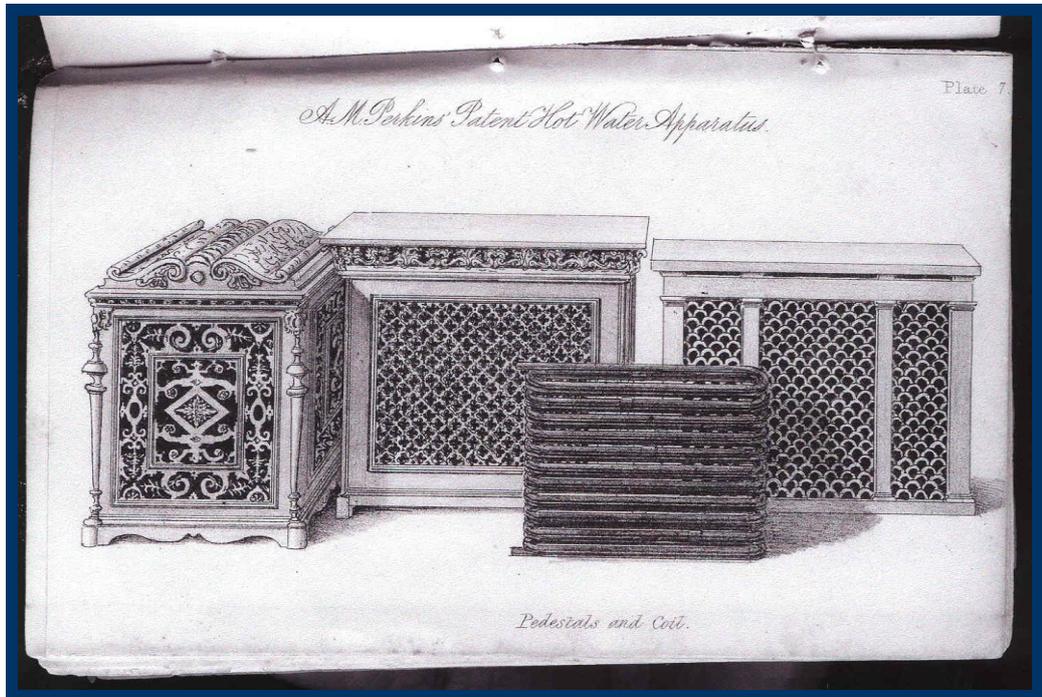
Box end heating coil
Lacock Abbey, Wiltshire, 1870s



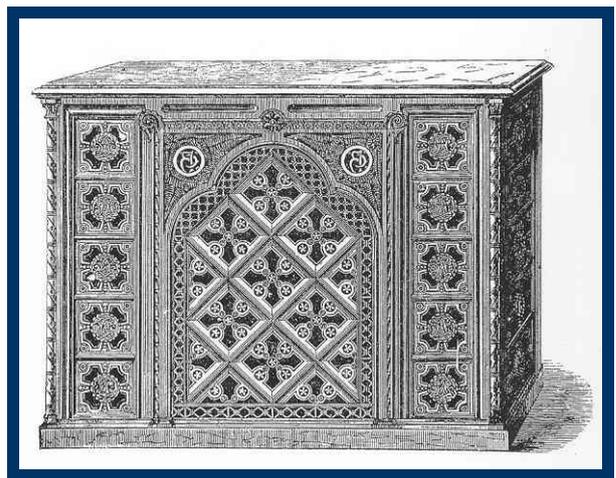
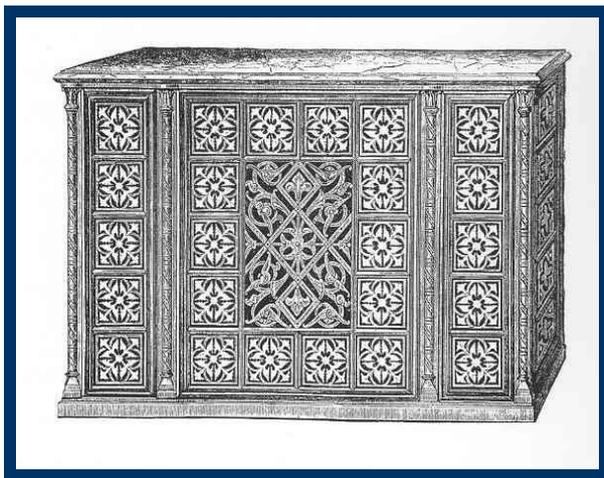
Cast iron pipework heating coil marked "W Sparrow, Martock"
[Montacute House, near Yeovil, Somerset]



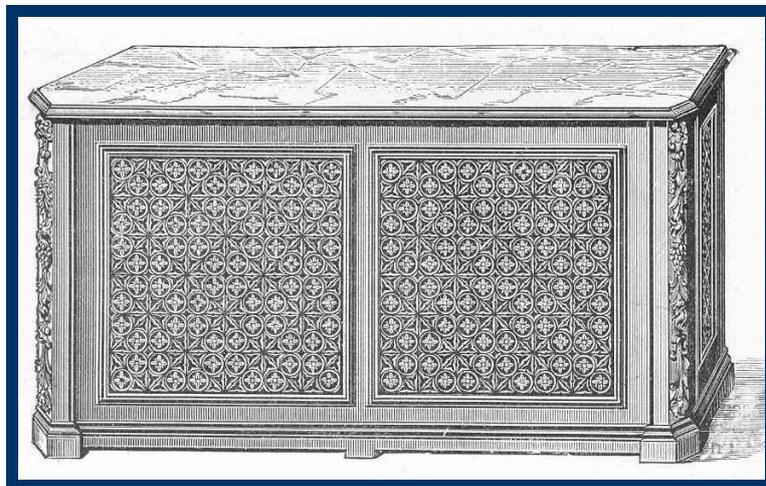
Box end heating coil, St Mary the Virgin, Bristol, by Vincent Skinner c.1896
[Photographs by Frank Ferris, CIBSE Heritage Group]



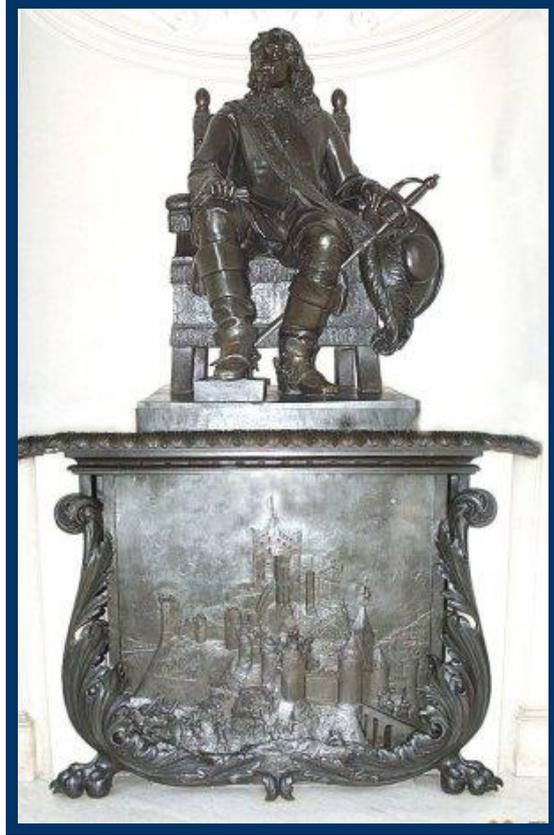
Heating pedestals and high-pressure hot water coil
 [Apparatus for Warming and Ventilating Buildings, A M Perkins, 1841]



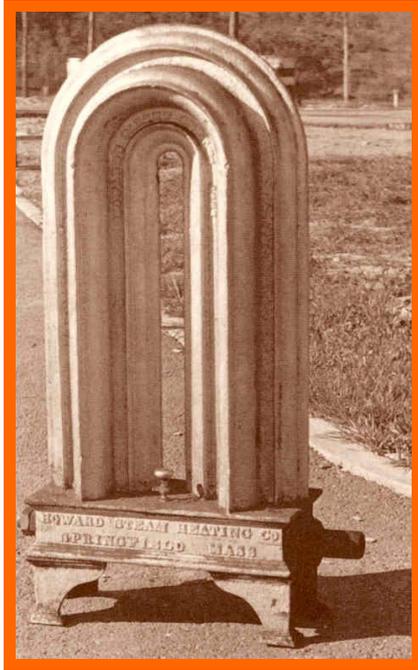
Cast iron radiator covers by the Coalbrookdale Co, c.1870, incorporating Maw's pierced tiles
 [The Decorative Tile, Tony Herbert & Kathryn Huggins, 1995]



Coil case [Jones, 1904]



Heating pedestals, coil inside a decorative base, Kingston Lacy, Dorset
[Photographs by Frank Ferris, CIBSE Heritage Group]



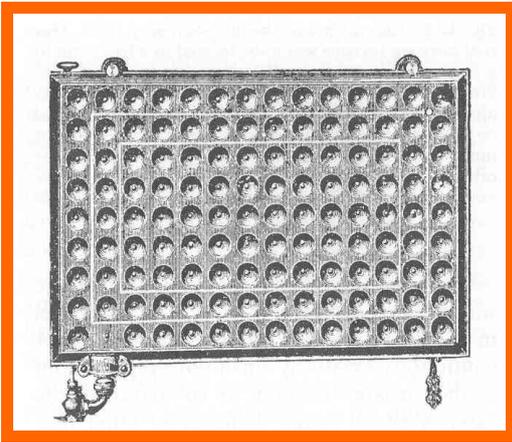
Oxbow or Washboard Radiator
Howard Steam Heating Co, 1856
[Smithsonian Institution]



"Ornate" decorated column radiators
United States Radiator Co, c.1900



Early decorated steam radiator, American patent model of 1859
[Manufactured Weather, exhibition leaflet Smithsonian Institution, 1993]

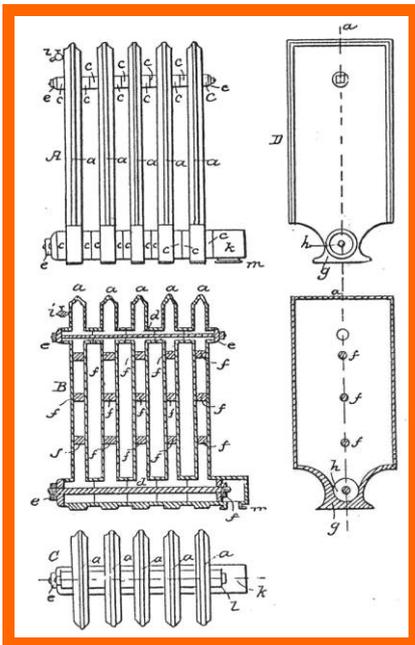


“Mattress” radiator, patent 1854
 Stephen J Gold [Beginnings of a Century of
 Steam & Hot Water Heating, S R Stifler, 1960]

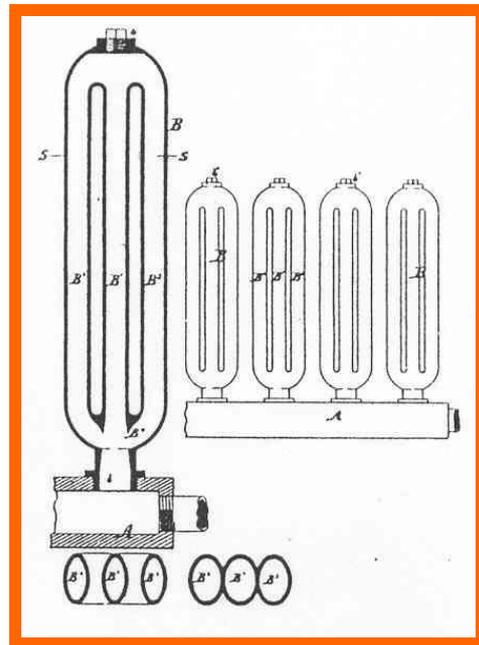


NASON'S
 “STANDARD” WROUGHT IRON TUBE RADIATOR

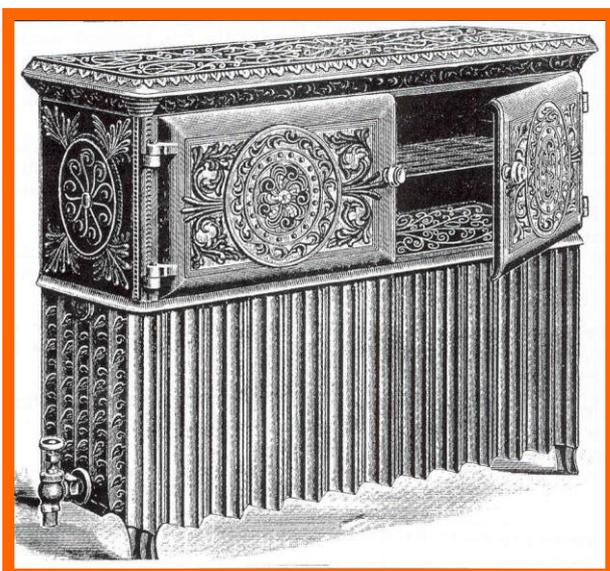
Nason’s “Standard” wrought iron radiators, c.1870
 [An Historical Sketch of Central Heating:
 1800-1860, Eugene S Ferguson]



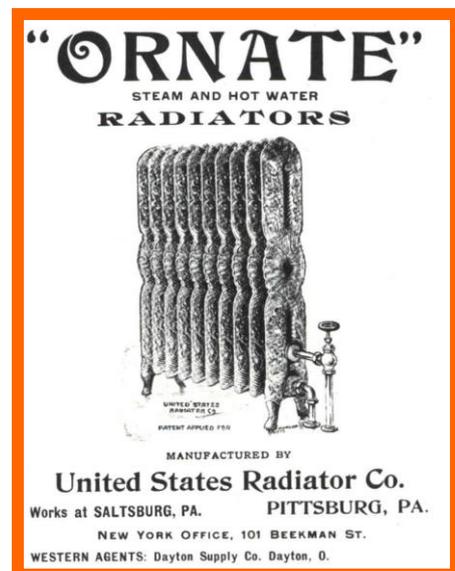
Early 5-section steam radiator, c.1860
 [A History of the Development of the Radiator, Ara Markus Daniels, Dom Eng, 11 January 1930]



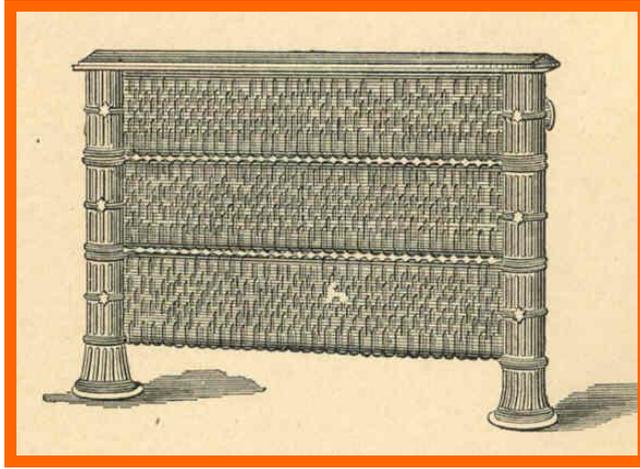
Prototype 3-column radiator, c.1878



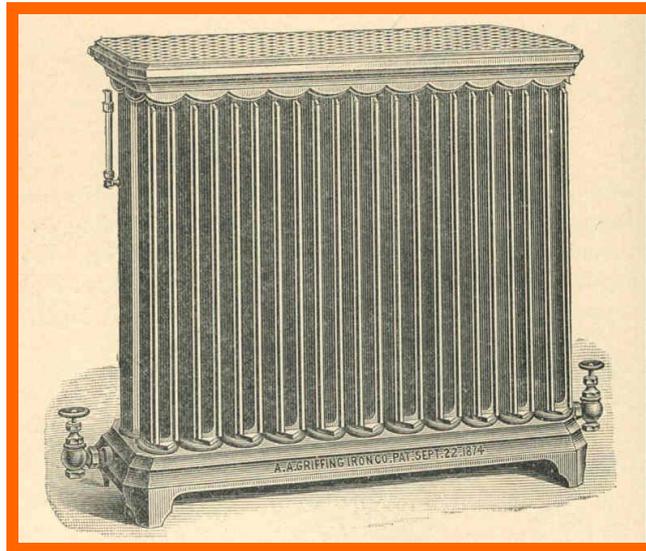
Food warming or warm closet radiator
 [Domestic Engineering, Feb 1896]



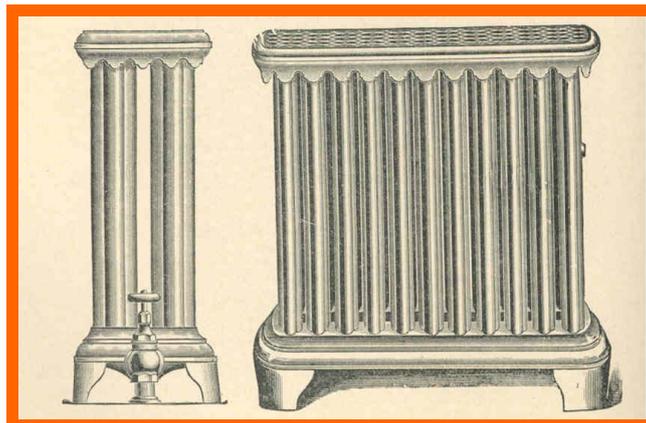
“Ornate” radiator, United States
 Radiator Co [Dom Eng, Jan 1896]



"Whittier" radiator, H B Smith Co, c.1873



"Bundy" loop radiator, A A Griffing Iron Co, 1874



The "Reed" radiator, H M Smith Co, c.1876

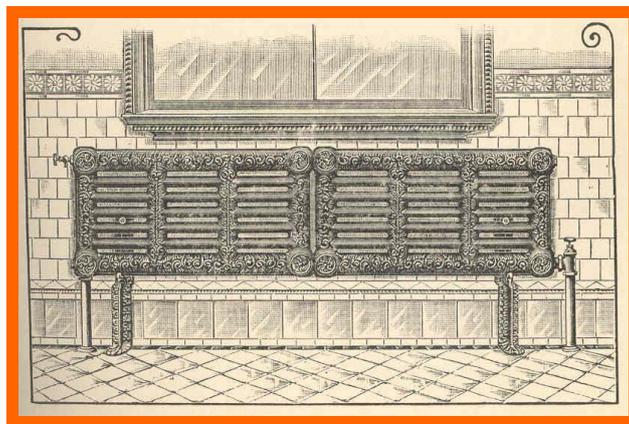
[Examples of American radiators from
Practical Steam and Hot Water Heating
and Ventilation, Alfred G King, 1913]



The "Pyro" radiator, A A Griffing Iron Co, 1876

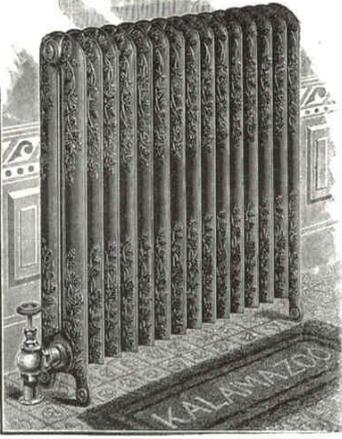


"Elite" radiator, A A Griffing Iron Co, 1877



Wall radiator, Fowler & Wolffe, 1897 or before

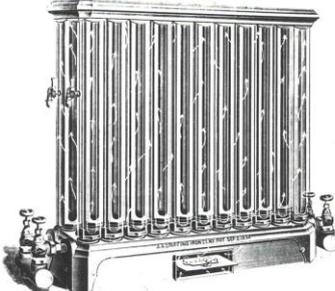
Kalamazoo Radiators
 VINE PATTERN.
 Threaded Nipple Connection.
 WE CAN MAKE
IMMEDIATE
SHIPMENT
 LET US HEAR FROM YOU.
 Kalamazoo Radiator Co.
 MANUFACTURERS OF
 STEAM AND HOT WATER RADIATORS,
 KALAMAZOO, MICH.
 Chicago Office: 54 DEARBORN STREET,
 C. H. CONYER, Manager.



WRITE ADVERTISERS, MENTIONING "DOMESTIC ENGINEERING"

Kalamazoo "Vine" pattern radiator

A Man who has any regard for his Health



is a man who appreciates an article that combines good ventilation with good heating. It may cost a little more, but there is a saving clause in the fact that it is worth a great deal more than the difference in the cost. Take for example the **Bundy Duplex Base Ventilating Radiator**. With it you can use half or all the Radiator at one time. This prevents over-heating, and when combined with our Bundy Duplex Dampers, the acme of good heating and ventilation is attained. Engineers should specify this system. Send for book D. E.

Have no room here for a cut of our Bundy Steam Trap, but you ought to know about it, so send for book D. E.

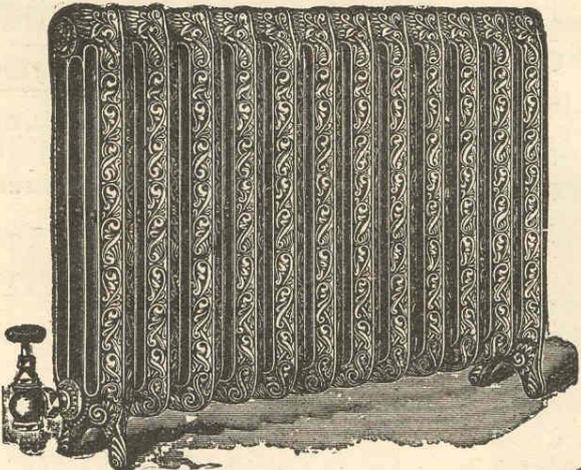
CHICAGO: 34 Dearborn St.
 BOSTON: 177 1/2 Faneuil Square
 PHILADELPHIA: 752 Arch St.

WORKS: JERSEY CITY, N. J.

A. A. GRIFFING IRON CO., 66-68 CENTRE STREET, NEW YORK

Griffing "Bundy" duplex base ventilating radiator

ERIE RADIATORS



Jarecki Mfg Co Ltd, Erie, PA

[Examples of American radiators from issues of Domestic Engineering in the 1890s]

"AURORA"

ORNATE
 SOLAR
 AURORA
 STAR
 CROWN INDIRECT

United States Radiator Co.
 Pittsburg, Pa.
 Works at Newton, Pa.

BEAUTIFUL
 ORNAMENTAL
 SERVICEABLE
 INDISPENSABLE

"Aurora" decorated column radiator

Radiators

For Steam or Water

PETRI-PELS N.Y.

"LEADER."

Corry Radiator Co.

Corry, Pa.

Send for Catalogue. New York Office, 101 Beekman St.

"Leader" ornamental radiator

Telegraphic Address: "WARMING, LONDON."

*Contractors to H.M. War Office, School Board for London, Corporation
of the City of London, Metropolitan Asylums Board, &c.*

J. WONTNER-SMITH GRAY & CO.

Hot Water and Steam

HEATING ENGINEERS,

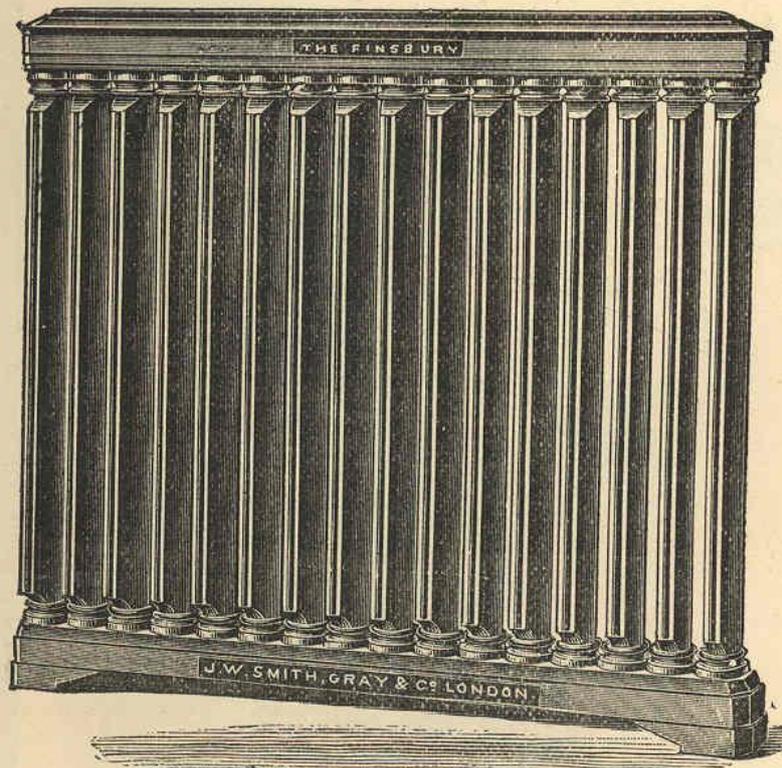
81 FINSBURY PAVEMENT, LONDON.

Works: 26 PHIPP STREET, E.C.

Manufacturers of
HIGH & LOW PRESSURE HOT WATER APPARATUS
FOR WARMING

Churches, Schools, Mansions, Private Residences, Asylums, Hospitals, Public
Libraries and every description of Public Buildings.

MANUFACTURERS OF
KITCHENERS BATHS, LAVATORIES, HOT CLOSETS.



PLANS AND ESTIMATES
PREPARED FREE.

THE FINSBURY RADIATOR.

These Radiators have been fixed in the following Buildings:—Mansion House, London, Guildhall New Offices, City of London Court, Public Libraries at Camberwell, Buckingham Palace Road, S.W., Mount Street, W., Stoke Newington, &c.; also Inkerman Barracks, Woking, Military Hospital, Colchester, &c.

J Wontner-Smith Gray & Co, 81 Finsbury Pavement, London. The "Finsbury" radiator
[A Practical Treatise upon Warming Buildings, Fredk Dye, 3rd edition, 1897]