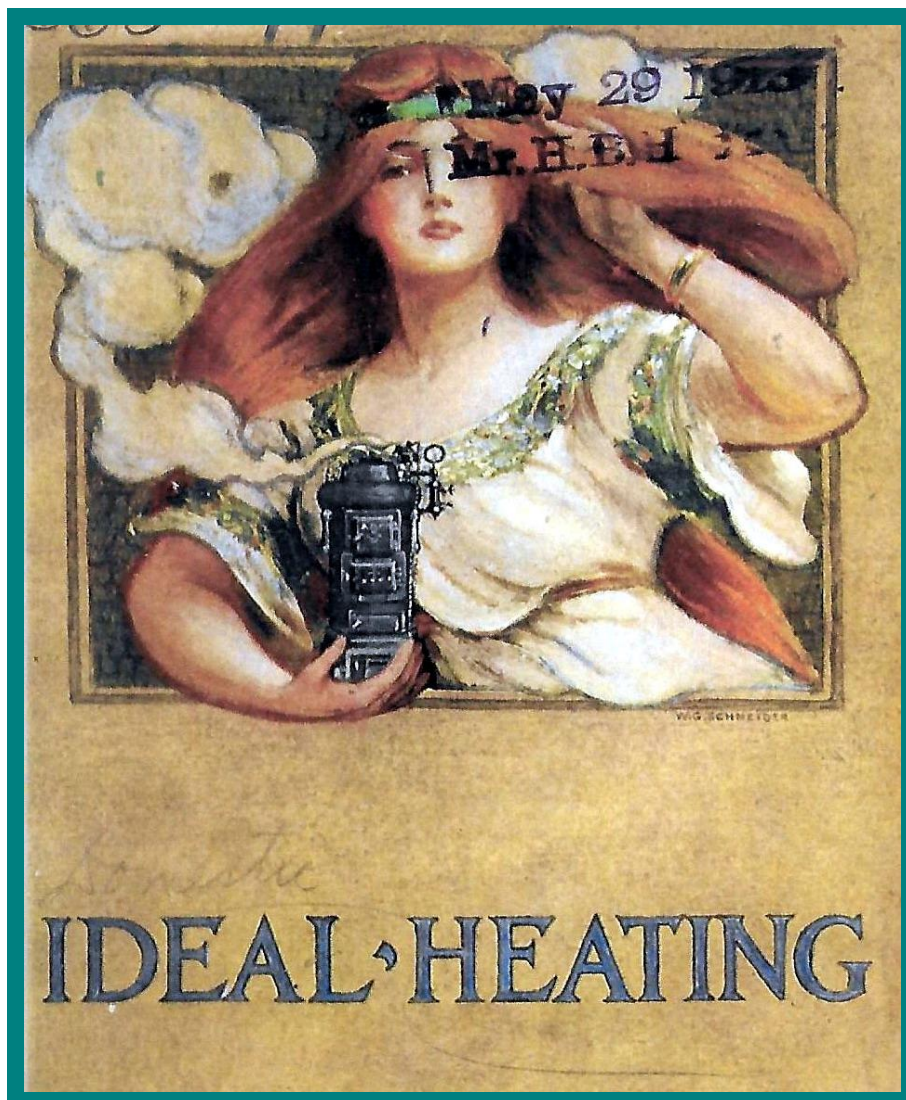




Building Engineering Services
HERITAGE REVISITED
PART NINE

BRIAN ROBERTS
CIBSE Heritage Group



American Radiator 1911.

COMPANY CATALOGUES 1870-1930

HITCHINGS & CO'S

Corrugated Fire Box Boiler.

FOR HEATING GREEN HOUSES, GRAPERIES, &c. &c.

FACTORY AND OFFICE: 233 Mercer St. NEW YORK.

Patented July 23d, 1867.

DIRECTIONS FOR SETTING AND USE.

Place the boiler on a brick base, raised a few inches above the floor of the pit or cellar, with the top of the boiler as much below the level of the heating pipes as is practicable; let all the pipes (both flow and return) have a slight descent, so that their entire contents will drain and empty into the boiler. In preparing the pit for the boiler, bear in mind that the form of the circulation is increased by increasing the depth of the boiler below the level of the heating pipes.

To secure a good draft, place the boiler near the chimney and avoid the use of horizontal pipes or flows. A brick chimney is preferable to any kind of metal or clay pipes; for the same size boilers, it should be twelve inches square inside; for the smaller ones, eight by twelve inches, or eight inches square, inside, and carried up three or four feet above the ridge of the roof and above any surrounding objects.

Anthracite, or other of the hardest varieties of Anthracite Coal, is the best and most economical fuel; when that cannot be obtained, Bituminous Coal or Coke, or Coal and Coke mixed, may be used. Of Anthracite, Stove or Egg size is best for the small boilers, while the size known as Furnace or Broken Coal is best for the larger ones; coal that in burning leaves a refuse of slaked ash or stone, is not good for the purpose.

To obtain the best results, keep the fire-box door and ash-pit of the boiler closed; before kindling a new fire, turn the grate over and remove all clinker and dirt; if inferior coal is used, this must be done every day; do not turn the grate over while hot, as it is then liable to break. See that the fire at the back of the fire-box is not extinguished, and occasionally open the upper door and clean the upper fire. This should be done as often as necessary to prevent the accumulation of dirt, and remove with the kind of tool used.

When kindling the fire, open the damper in the chimney to the fire, and open the ash-pit door sufficiently to give the necessary draft; after the fire is established, the damper should be partially closed. When leaving the fire for the night, fill the fire-box with coal about level with the fire-door; regulate the draft of the fire by closing the damper more or less, as may be found necessary; if this does not give sufficient control, then close the ash-pit door and regulate the ventilator in it; but in all cases use the damper as the first and principal means of controlling the fire. The fire must not be made unless the boiler and pipes are filled with water so as to secure a free circulation; nor must the boiler and pipes be exposed to frost, without a fire, while filled with water.

A boiler is damaged by heat during the winter months far more than by the winter's use; and every year should be taken to diminish the rust-heat. When the season for firing has passed, let water remain in the boiler and pipes; thoroughly clean the rust and dirt from every part of the fire-box, fire and ash-pit, and let the doors and damper remain open, and keep a free circulation of air through the boiler-pit or cellar. In case the boiler is placed in an extremely damp pit, the interior of the fire-box and flue, and also the flanges and joints of the boiler and ash-pit, should be thoroughly oiled.

Hitchings & Company c.1890s (from ASHRAE *Heat & Cold*, Centenary Book 1994).
 The Hitchens Corrugated Fire Box Boiler was patented in 1867.

COMPANY CATALOGUES 1870-1930



Baker Ice Machine Company 1901.

The Archives of the CIBSE Heritage Group, established in 1973, are now stored in the Architectural Library of the Bute Building at Cardiff University. In Addition, the Heritage Group holds some 200 digitised complete catalogues in PDF format, dating from 1870 to 1960, most of which are from American University Libraries. This Part-9 of *Heritage Revisited* shows a selection of just a few catalogue covers and pages spanning the first 60 years. These are over 100 years old and some of the very early ones are in poor condition, but extracts have been included because of their special interest or rarity.

COVER and INTRODUCTION

Anderton & Bolton-*front cover*, Cameron Schroth-*inside front*, American Radiator-1, Hitchings-2, Baker Ice Machinery-3, Warren Webster-*inside back*, Vaillant-*back cover*

CATALOGUES BEFORE 1900

Sauvaire Freres-4, Holden-6, Wood Bailie-10, De La Vergne-12, Southern Ice-16, Pictet-17, Hercules-18, Clare Bros-19, Domestic Engineering-20, Ice & Refrigeration-21, Lux-22, Hartley & Sugden-23, Bec Auer-24

CATALOGUES 1900-1920

Hausleiter & Eisenbier-26, Dominion-30, American Radiator-32, Paul-34, Central-35, Webster-36, Vogt-38, American District Steam-39, Monitor Stove-40, American Radiator-41, American Blower-42, American Radiator-43, Clow-44

SAUVAIRE FRÈRES, MARSEILLE

MANUFACTURE
d'Appareils de Chauffage et de Cuisine

SAUVAIRE FRÈRES

plusieurs Brevets d'Invention et de perfectionnement S.G.D.G.
plusieurs Medailles

SÉRIE C
CHAUFFAGE

MAGASINS
& Bureaux
RUE PARADIS, 5



ATELIERS
Bd Bompard
CHEMIN D'ENDOUME

MARSEILLE

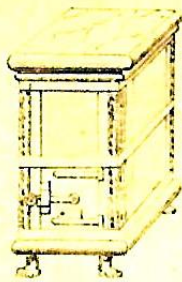
LITH. BOUÏSSON, R. PAVILLON. 26

SAUVAIRE FRERES, MARSEILLE

SÉRIE C. PLANCHE

Figure 71

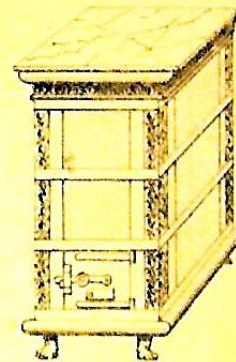
POËLE EN FAÏENCE
carré, à 2 rangs, dessus faïence, socle à boudin



Numéros	Mesure du fût	Hauteur totale
0	0.26 - 0.33	0.58
1	0.28 - 0.35	0.62
2	0.29 - 0.39	0.66
3	0.32 - 0.42	0.70
4	0.35 - 0.46	0.75

Figure 73

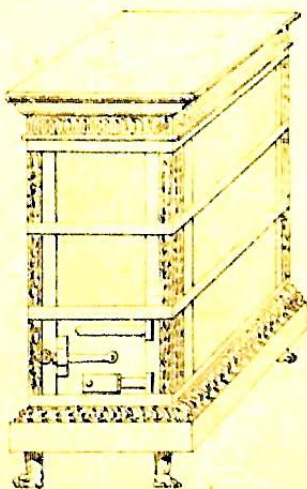
POËLE EN FAÏENCE
carré, à 3 rangs, dessus marbre, socle à boudin



Numéros	Mesure du fût	Hauteur totale
2	0.30 - 0.38	0.80
3	0.34 - 0.41	0.84
4	0.35 - 0.46	0.92

Figure 75

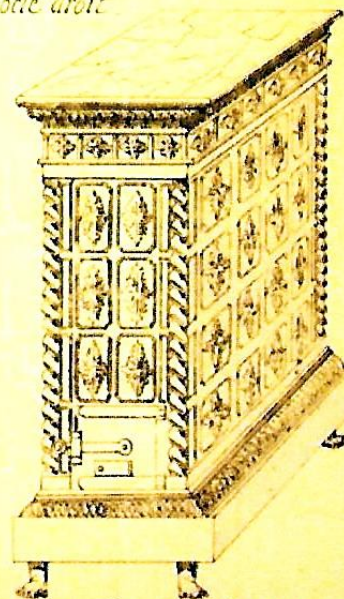
POËLE EN FAÏENCE
carré, à 3 rangs, dessus marbre, socle droit



Numéros	Mesure du fût	Hauteur totale
6	0.34 - 0.53	1.08
8	0.44 - 0.66	1.12

Figure 77

POËLE EN FAÏENCE
carré, à 4 rangs, sans cercles, angles à torsade, dessus marbre, socle droit

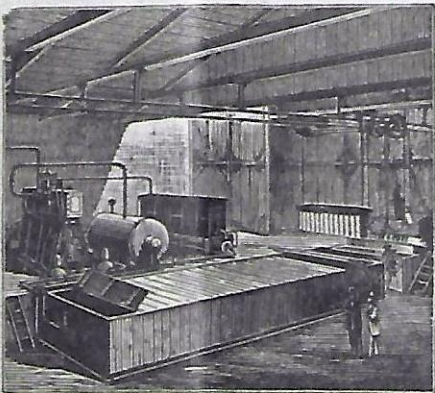


Numéros	Mesure du fût	Hauteur totale
8	0.44 - 0.66	1.35

Tiled earthenware stoves.

D.L. HOLDEN & BROS. PHILADELPHIA

D. L. HOLDEN & BROS.,
MANUFACTURERS OF
ICE MACHINES,
2 ALSO
REFRIGERATING MACHINES,
FOR
Breweries, Distilleries, Packeries, Fruit Houses, Steamships, &c.



PENN IRON WORKS,
BEACH AND PALMER STREETS,
P. O. Box, 1808,
PHILADELPHIA, PA. U. S. A.

D. L. HOLDEN, E. C. HOLDEN, G. M. HOLDEN.

PHILADELPHIA:
LEHMAN & BOLTON, PRINTERS.
1878.

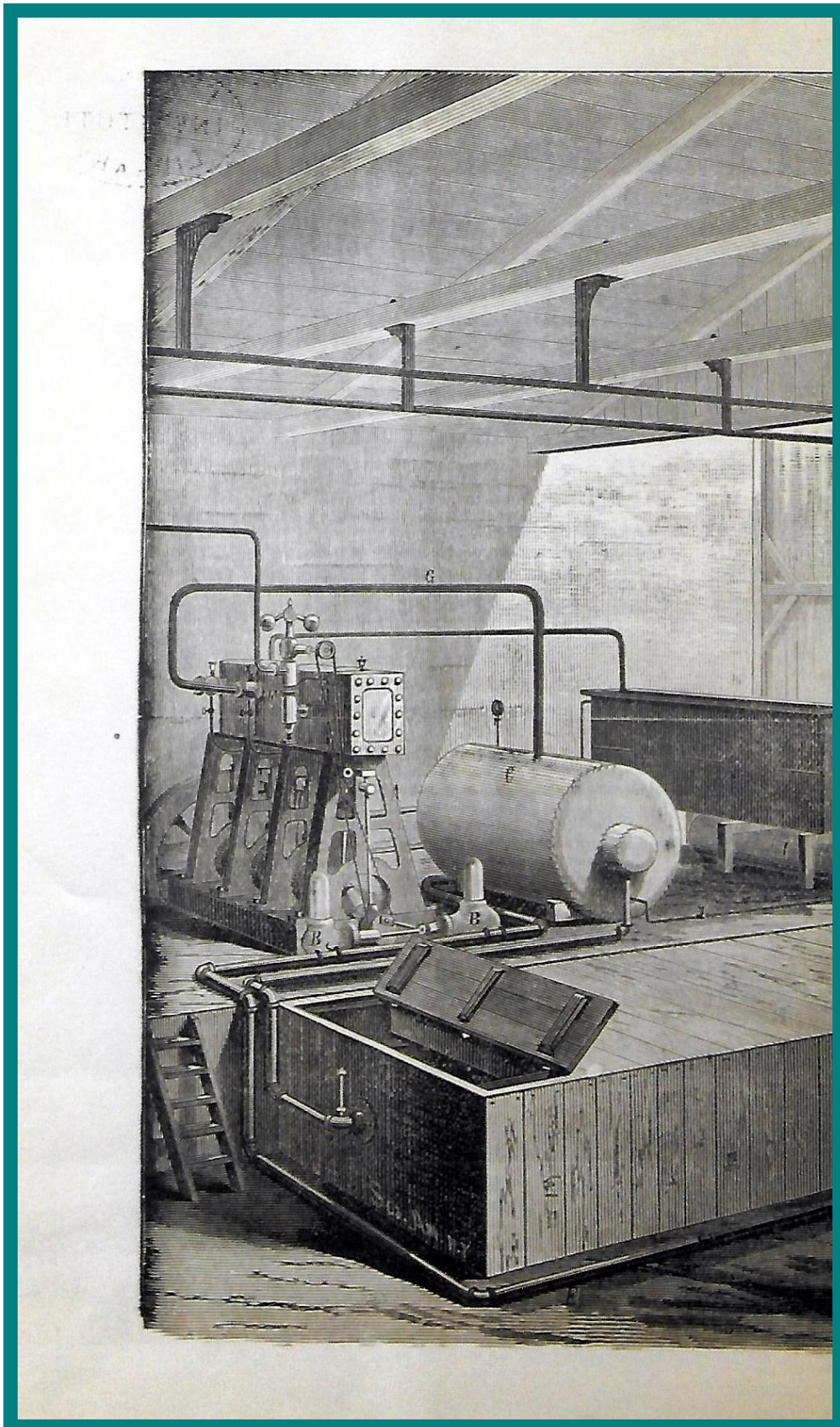
FRANKLIN INSTITUTE LIBRARY, PHILA
Class 62.1.5 Book H71 Accession 8089
From REFERENCE, PAMPHLET. 10-23-78

FRANKLIN INSTITUTE LIBRARY

FRANKLIN INSTITUTE LIBRARY

Ice and Refrigerating Machines 1878.

D.L. HOLDEN & BROS. PHILADELPHIA



Ice-Making Machine with Freezer Tank (left hand side of composite drawing).

D.L. HOLDEN & BROS. PHILADELPHIA

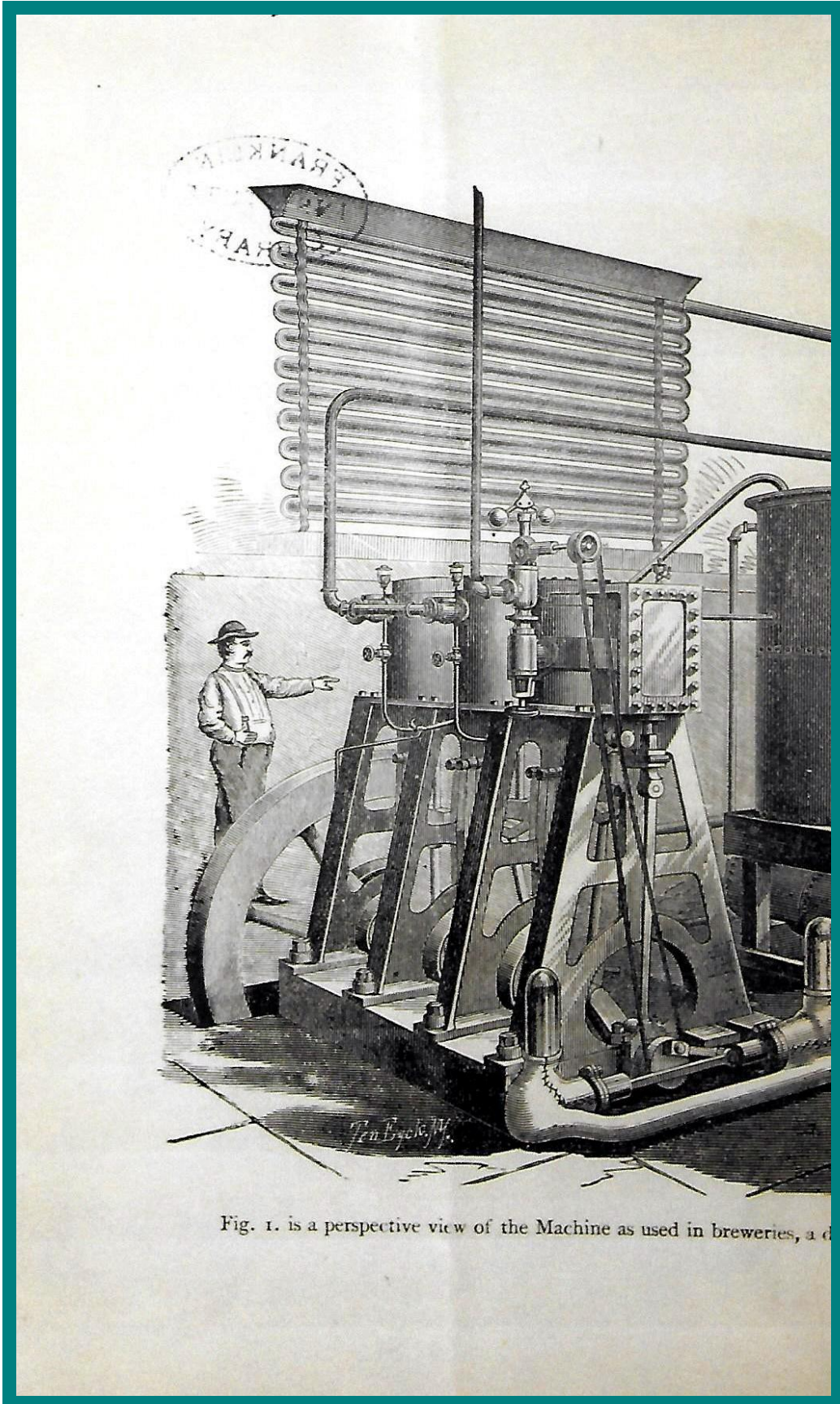
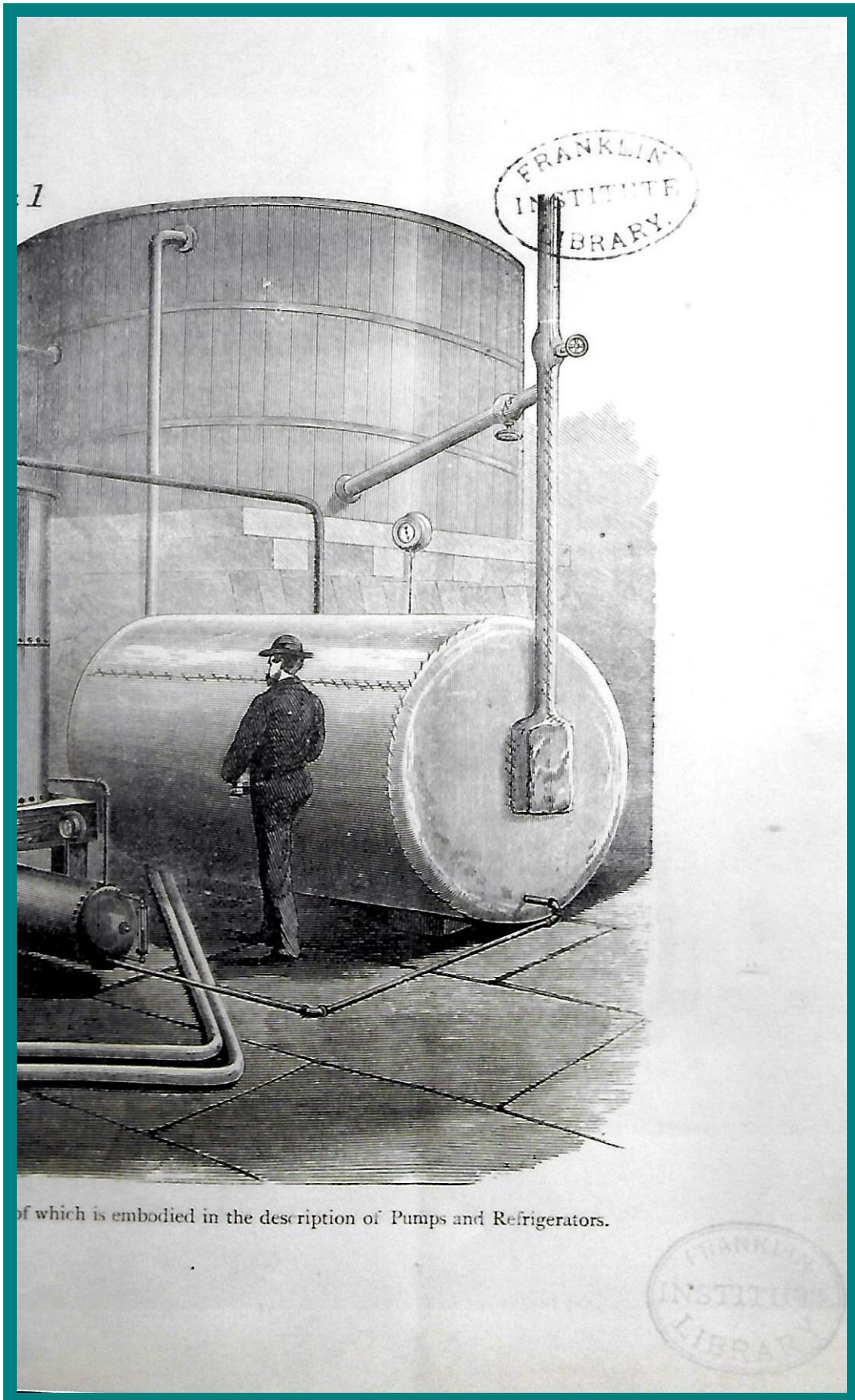


Fig. 1. is a perspective view of the Machine as used in breweries, a d

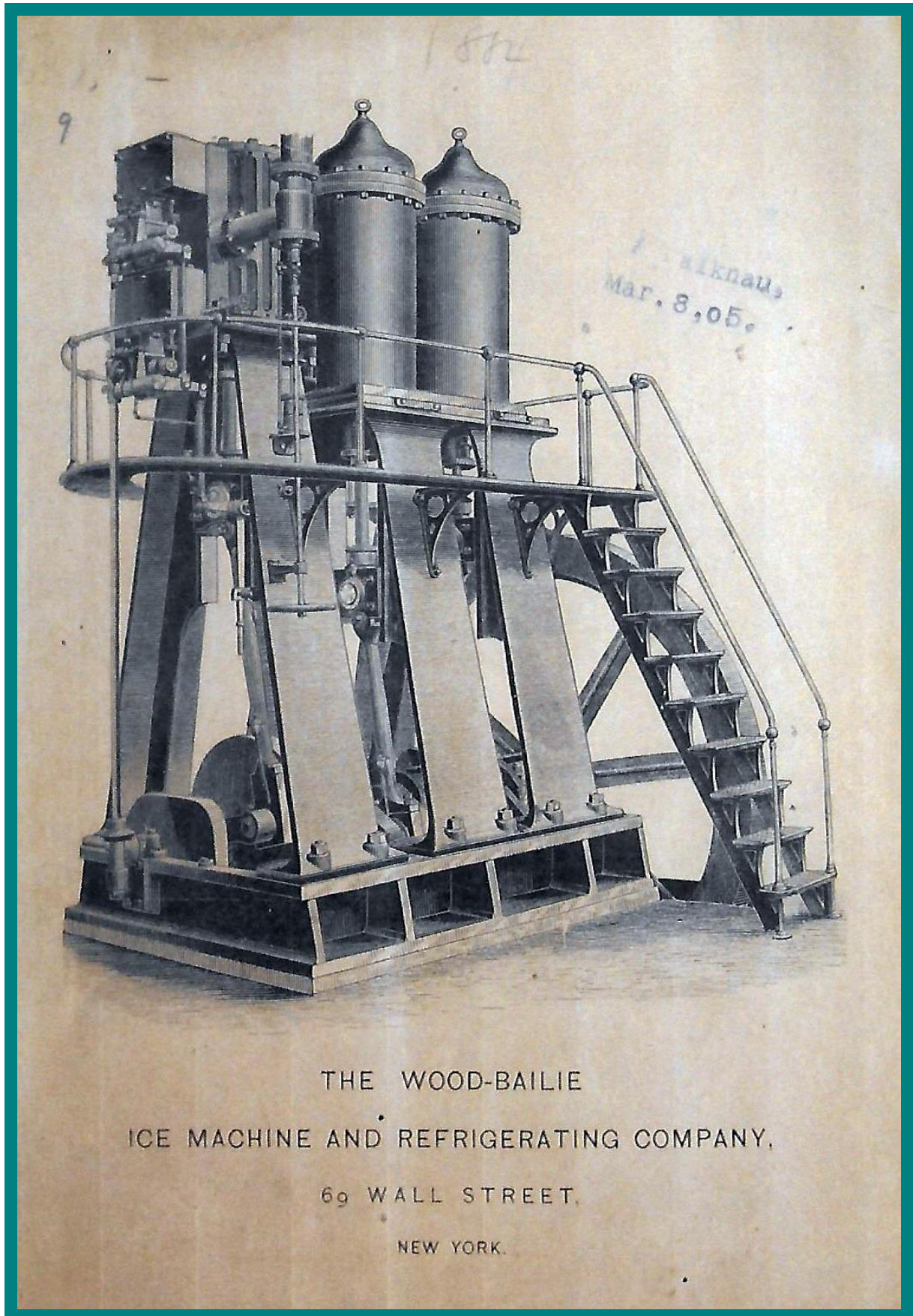
Perspective view of the Machine as used in breweries (left hand page).

D.L. HOLDEN & BROS. PHILADELPHIA



Perspective view of the Machine as used in breweries (right hand page).

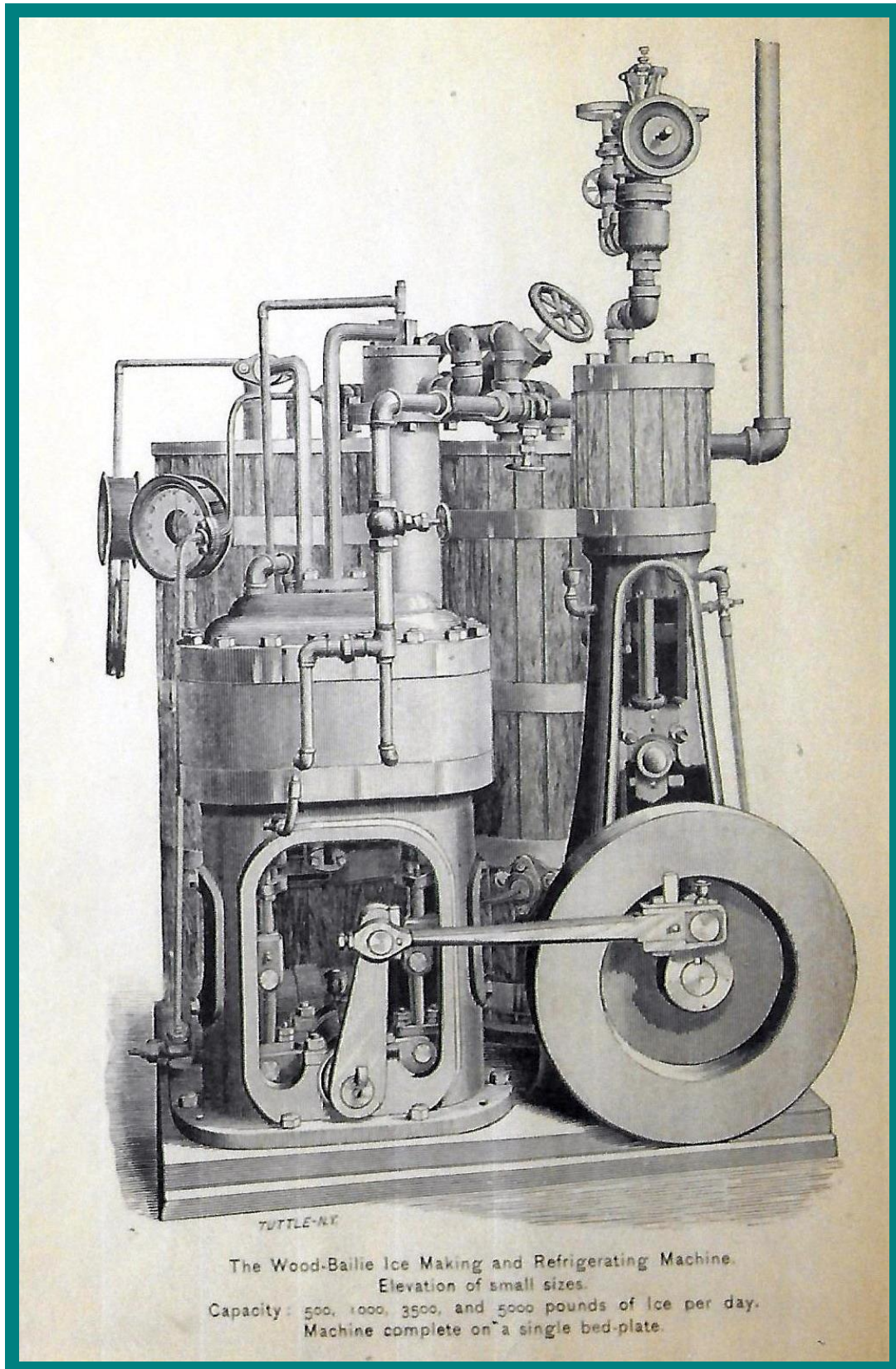
WOOD-BAILIE, NEW YORK



THE WOOD-BAILIE
ICE MACHINE AND REFRIGERATING COMPANY,
69 WALL STREET,
NEW YORK.

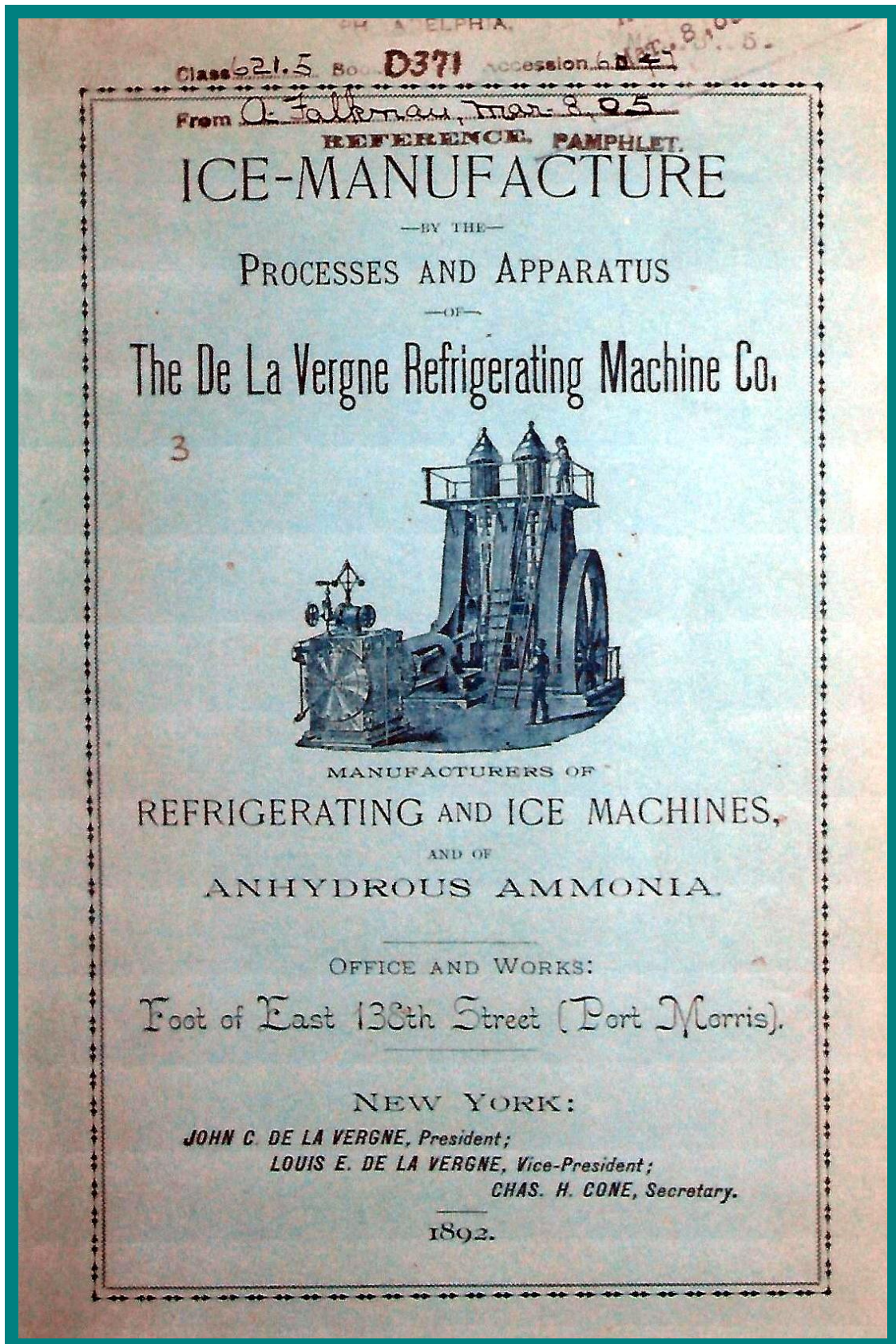
Ice Making & Ammonia (NH₃) Refrigerating Machine 1890.

WOOD-BAILIE, NEW YORK



Ammonia (NH₃) Refrigerating Machine 1890.

DE LA VERGNE, NEW YORK



Ammonia Refrigerating and Ice Machines 1892.

DE LA VERGNE, NEW YORK

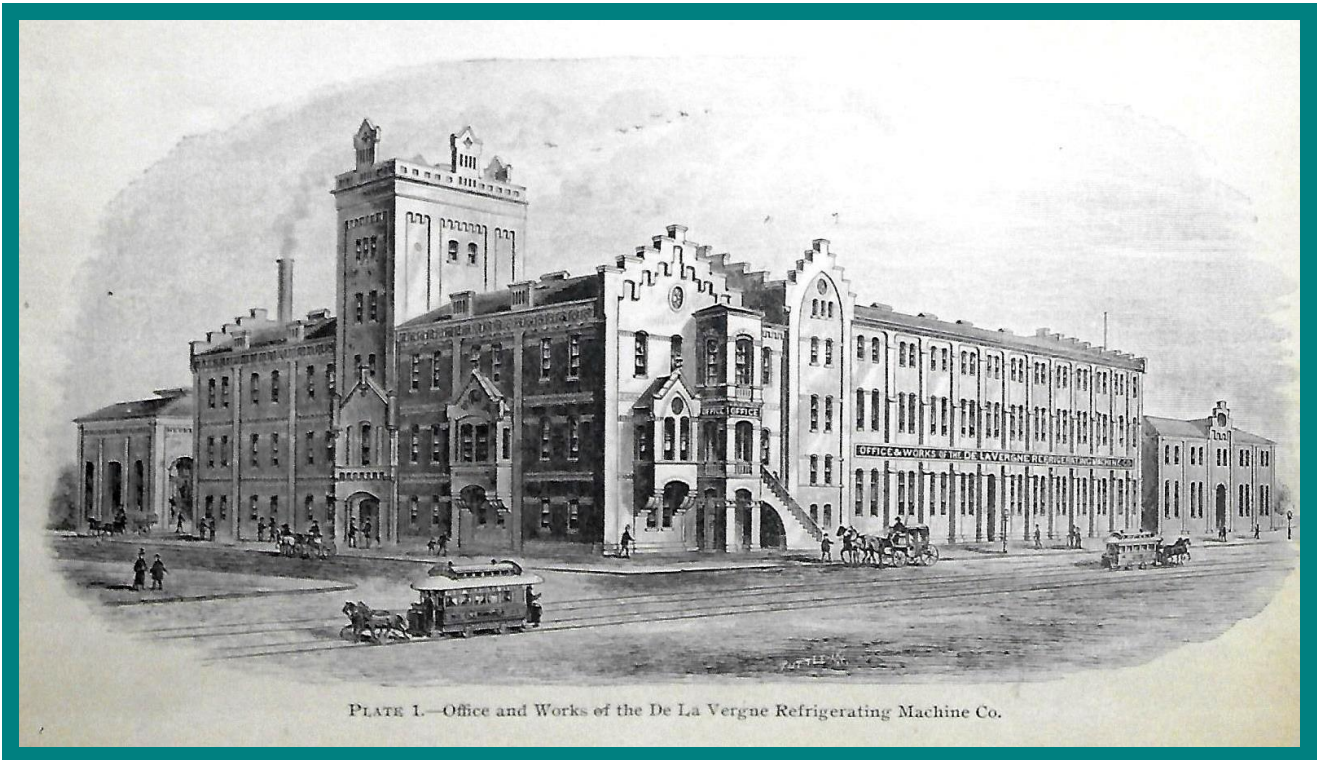


PLATE 1.—Office and Works of the De La Vergne Refrigerating Machine Co.

De La Verne Office and Works, East 138th Street, New York.

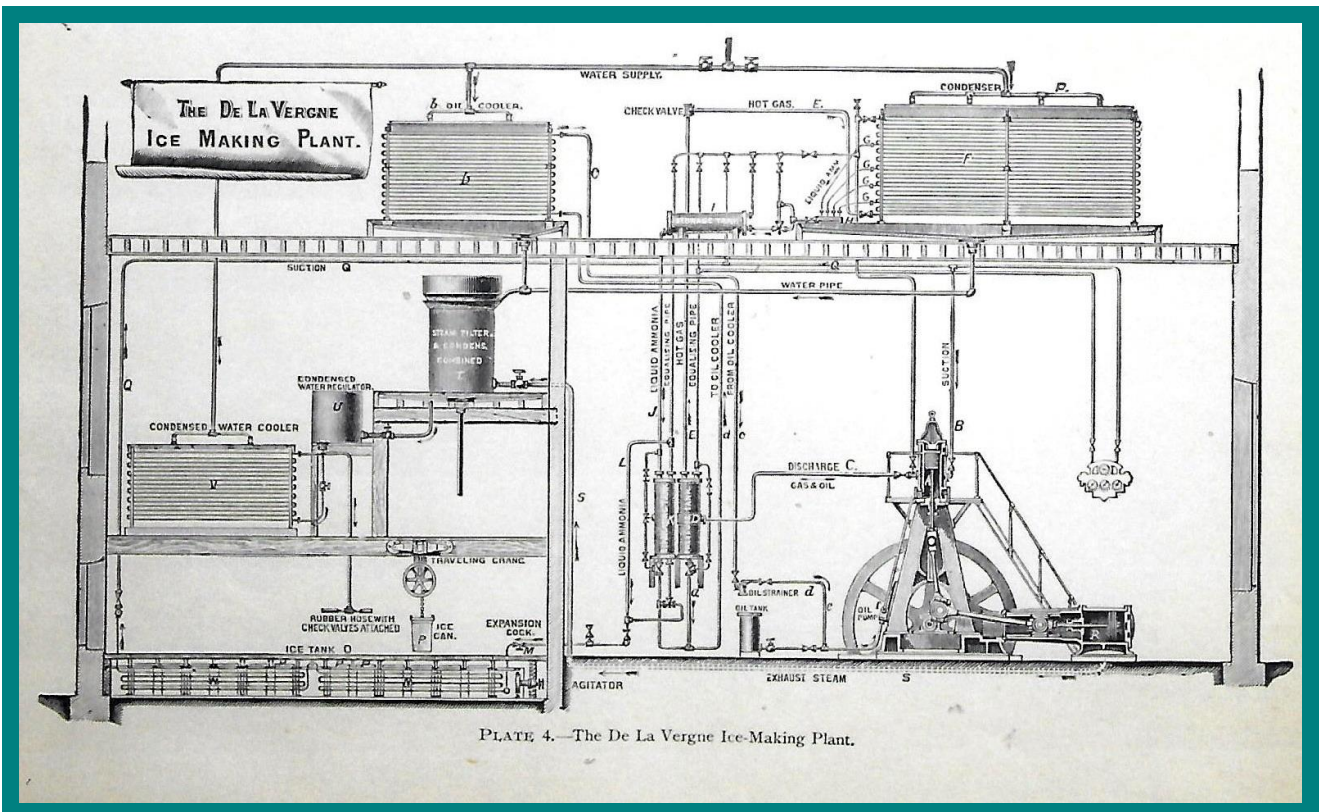
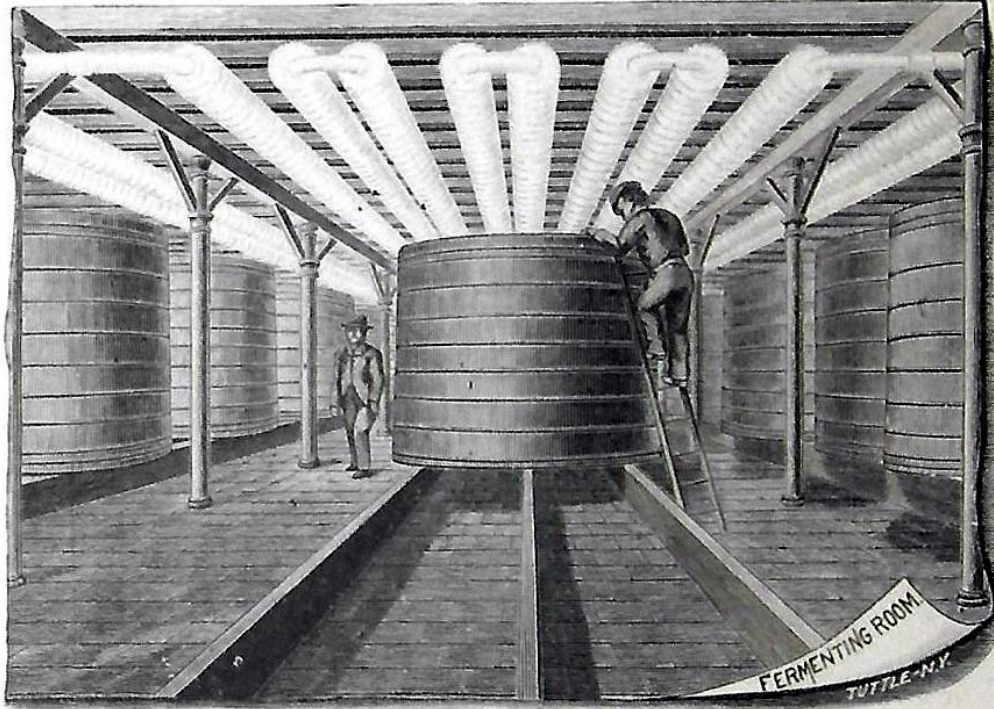


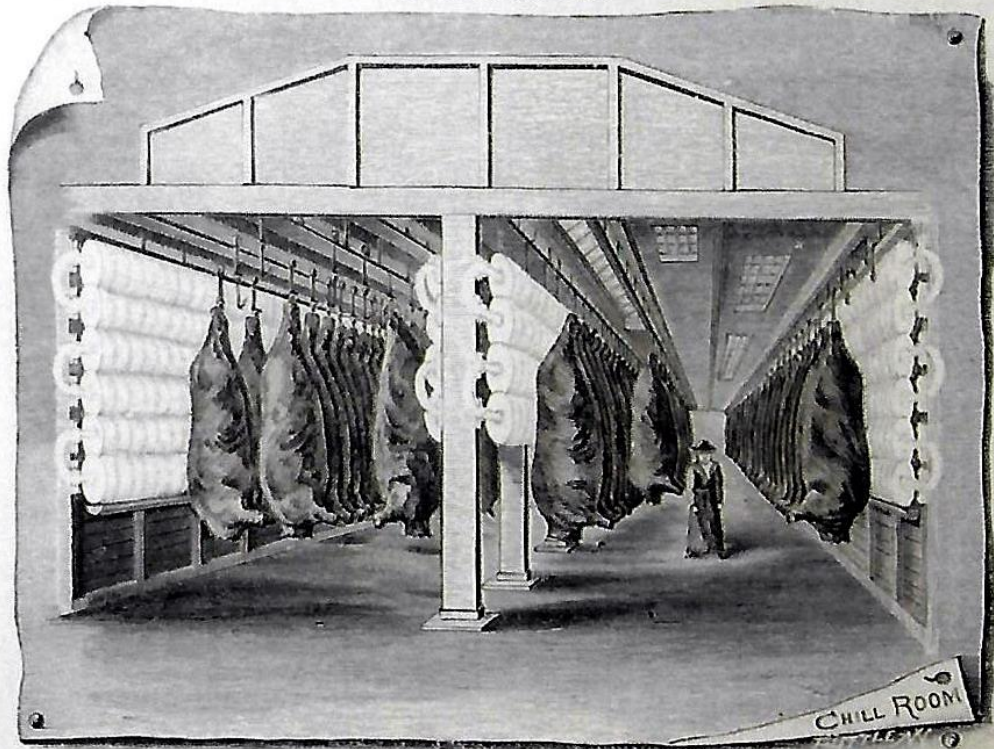
PLATE 4.—The De La Vergne Ice-Making Plant.

Ice-Making Plant with steam-driven compressor and atmospheric condenser (i.e. no fans).

DE LA VERGNE, NEW YORK



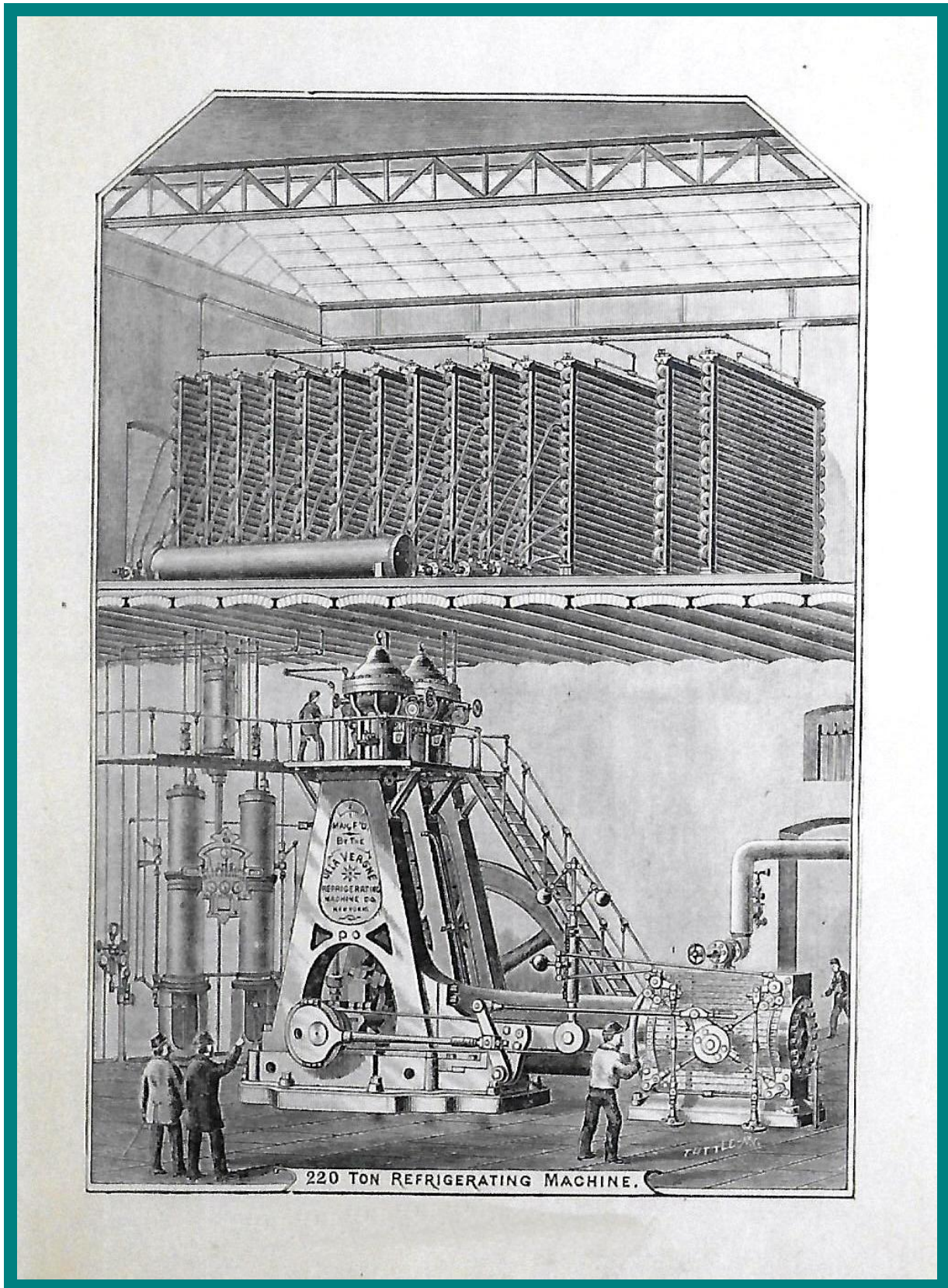
Fermenting-Room.



Beef Chill Room.

Cold Store applications.

DE LA VERGNE, NEW YORK



Refrigerating Plant: Steam-driven compressor (220 TR) and atmospheric condensers.

SOUTHERN ICE, CHATTANOOGA

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ICE AND REFRIGERATION

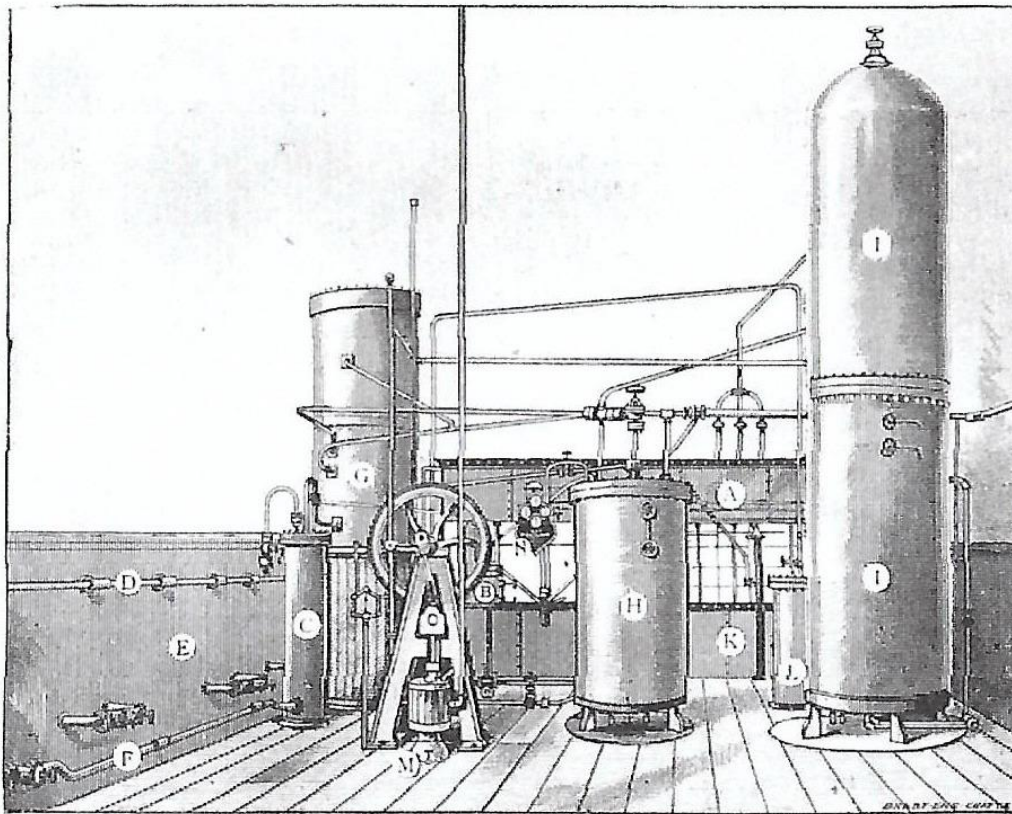
(JULY, 1891)

SOUTHERN ICE MACHINE CO.

SOLE OWNERS AND MANUFACTURERS OF

... The Latest Improved Absorption ...

ICE AND REFRIGERATING MACHINE.



∴ THE SOUTHERN ∴



The SOUTHERN ICE AND REFRIGERATING MACHINE is one of the best and has been acknowledged by the most experienced ice manufacturers to work more economical and produce ice cheaper and of a better quality than any other machine on the market to-day

∴ ALL MACHINES NOW IN OPERATION ARE GIVING PERFECT SATISFACTION. ∴

FOR ESTIMATES AND
FURTHER PARTICULARS
ADDRESS THE

SOUTHERN ICE MACHINE CO.
CHATTANOOGA, TENN.

PICTET, NEWBURGH, NEW YORK STATE

JULY, 1891

ICE AND REFRIGERATION

53

PICTET

Ice Refrigerating Machine

MANUFACTURED BY....

WHITEHILL ENGINE & PICTET ICE MACHINE CO.

WE DO NOT USE AMMONIA.

Pictet Machines use Anhydrous Sulphurous Oxide, a chemical noted for its low working pressure, is of itself a lubricant, and does not injure any of the metals. Its low pressure is a guarantee against explosion.



NEW YORK BOARD OF FIRE UNDERWRITERS,

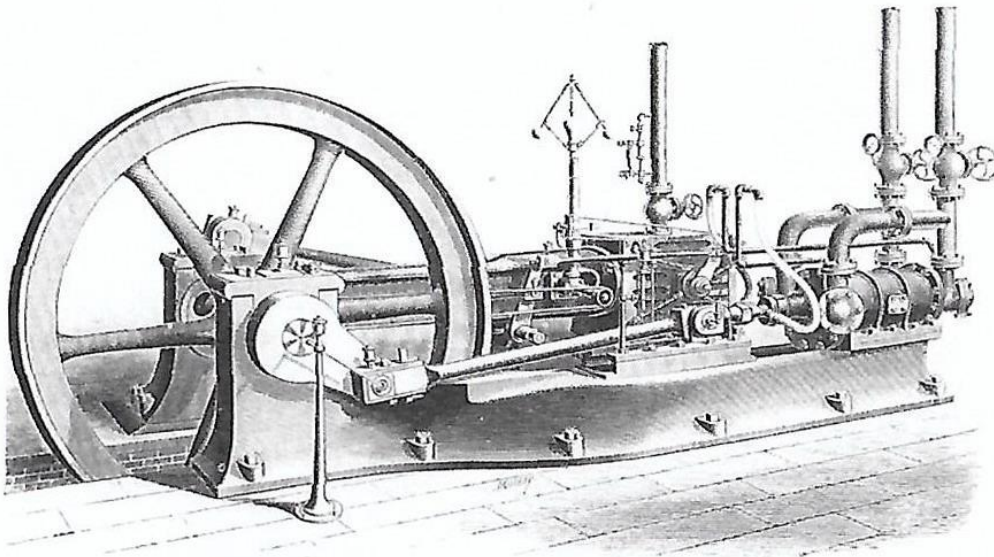
BUREAU OF SURVEYS

JAMES HARRISON, Supt.

Board Building, 15 Broadway, Room 37.

NEW YORK, January 21, 1891.
THE PICTET ARTIFICIAL ICE CO. (Limited), New York.
Dear Sirs: Your issue of the 29th inst. is at hand. In reply, the examination of our expert and his subsequent report were convincing that the article known as Anhydrous Sulphurous Oxide is a safe article for storage or shipment, its tendency being to extinguish rather than to cause fire.

Yours truly, JAMES HARRISON, Supt.



Working Pressure from 50 to 75 lbs.

We guarantee GREATER ECONOMY OF FUEL, doing the same amount of work with less coal than any machine in the market.

FOR LIST OF REFERENCES AND FURTHER PARTICULARS, ADDRESS

WHITEHILL ENGINE & PICTET ICE MACHINE CO.

WORKS: NEWBURGH, N. Y.

New York Office, 21 Cortlandt St., Room 6.

Compressor using (unusually) Sulphur Dioxide refrigerant 1891.

HERCULES IRON, CHICAGO

DECEMBER, 1891.

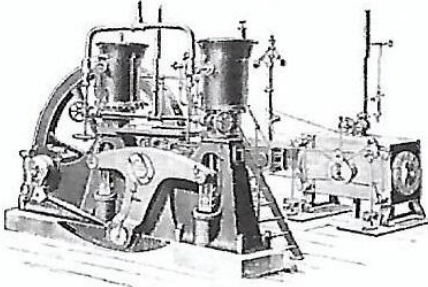
ICE AND REFRIGERATION.

315

THE HERCULES ICE MAKING AND REFRIGERATING MACHINE

(REFRIGERANT: ANHYDROUS AMMONIA.)

FOR BREWERIES, PACKING HOUSES,
COLD STORAGE AND ICE MAKING.



THE HERCULES ICE MACHINE.

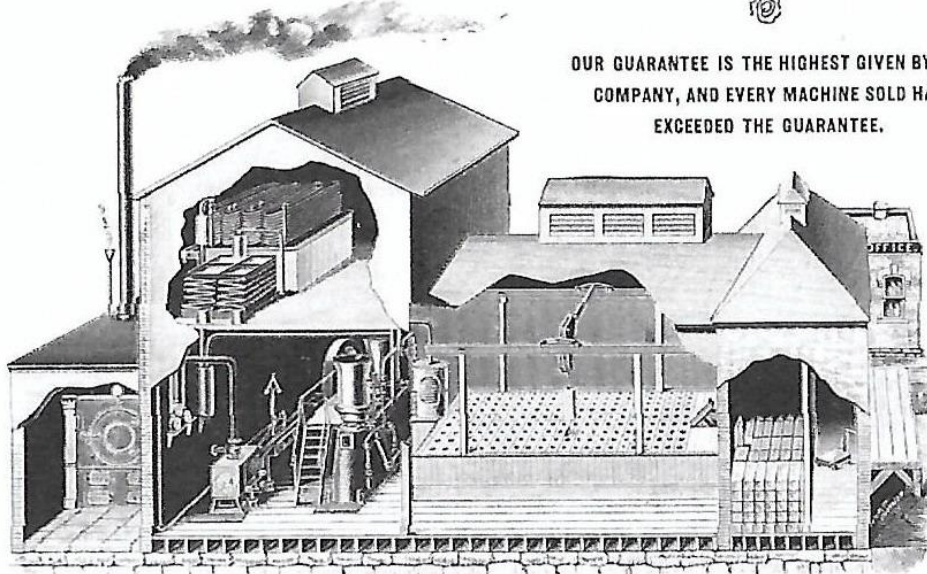
The Hercules Ice Machine is the most compact, most economical, most easily handled, well constructed, and thoroughly satisfactory machine in the market.



HERCULES WORKS, AURORA, ILL.



OUR GUARANTEE IS THE HIGHEST GIVEN BY ANY
COMPANY, AND EVERY MACHINE SOLD HAS
EXCEEDED THE GUARANTEE.



THE HERCULES MODEL ICE PLANT.

A. NUNNING BREWING CO.
ST. JOSEPH, MO.

HERCULES IRON WORKS,
CHICAGO, ILL. October 13, 1891.
In reply to your inquiry relating to the 40-ton Refrigerator placed by you in our brewery, I am pleased to say the machine has more than met our expectations, and your guarantee fully demonstrating its worth and reliability. It has the past year run continuously night and day, and has not occasioned any stop for repairs of any kind, and we are greatly pleased to add our name to the long list of testimonials which the Hercules bears.
Yours respectfully,
AUG. NUNNING, President.

MEADERS & OSGOOD,
NASHVILLE, TENN.

HERCULES IRON WORKS,
CHICAGO, ILL. July 29, 1891.
Our 25-ton Ice Machine purchased of you, after one month continuous operation has given such complete satisfaction that we do not wish a test of its abilities to perform the work guaranteed. It is now making with ease twenty-five tons daily of the finest ice we have ever seen, besides refrigerating our storage ice house. Congratulating you upon its good work, and wishing you the success you deserve, we are, sirs,
Yours respectfully,
MEADERS & OSGOOD.

THE HERCULES BLUE BOOK No. 1, FULL OF HELPFUL AND INTERESTING INFORMATION,
IS NOW IN PRESS, AND WILL BE SENT FREE TO INTENDING PURCHASERS.

NEW YORK OFFICE,
150 BROADWAY.

THE HERCULES IRON WORKS,

WORKS,
AURORA, ILL.

Room 502 Owings Building, Dearborn and Adams Sts., CHICAGO.

CLARE BROS. ONTARIO

**Our
Furnace
Book**

**CLARE
BROS & CO.**

PRESTON, ONT.

Warm air heating furnaces 1891.

DOMESTIC ENGINEERING, CHICAGO

DOMESTIC ENGINEERING

PLUMBING . . HEATING . . LIGHTING . . VENTILATING

WEEKLY PAPER No. 1

14 CLARK ST., CHICAGO, MARCH, 1897

VOL. 12 - No. 5

AMERICAN RADIATOR CO.

STANDARD RADIATORS

COMBINE
BEAUTY AND
EFFICIENCY

MADE IN ALL HEIGHTS
SINGLE, TWO & THREE
COLUMN FOR

WATER AND
STEAM

SEND FOR CATALOG
Standard Radiator Co.

CHICAGO: 107 W. WABASH ST.
BUFFALO: 200 W. MAIN ST.



TELEPHONE MAIN 1948.
TELEPHONE MAIN 3501.

RAYMOND LEAD CO.

CHICAGO.

The one who properly selects lead pipe is an expert
in the full realization of the Plumbing System. The
importance of selecting the right lead pipe is very
great. Selection of the right lead pipe is the greatest
factor in the whole system of the plumbing.
GREATEST SAFETY, LOWEST PRICES,
PROMPT AND RELIABLE SERVICE.

See our Advertise-
ment...Page 41

JENKINS BROTHERS MANUFACTURERS OF
Valves, Gaskets, Packing, Water Cook
Washers, Automatic Air and Pump Valves. We guarantee all
goods to be made to order. L. 187
NEW YORK, BOSTON, PHILADELPHIA, CHICAGO.



SEE THE NEW WATER TRAP OF THE L. S. CUDDELL PATENT.
F. E. CUDDELL'S
Patent Sewer-Gas and Back-Water Trap
For Sinks, Baths, Toilets, Wash Tubs,
WEST CLEVELAND, OHIO.
For Traps, see Trap Trap.



BUFFALO VENTILATING FANS

BUFFALO FAN SYSTEM OF HEATING AND VENTILATING

CHICAGO: 200 W. WABASH ST.
NEW YORK: 200 W. WABASH ST.
BUFFALO: 200 W. MAIN ST.



FARNAN

BRASS WORKS, CLEVELAND, OHIO

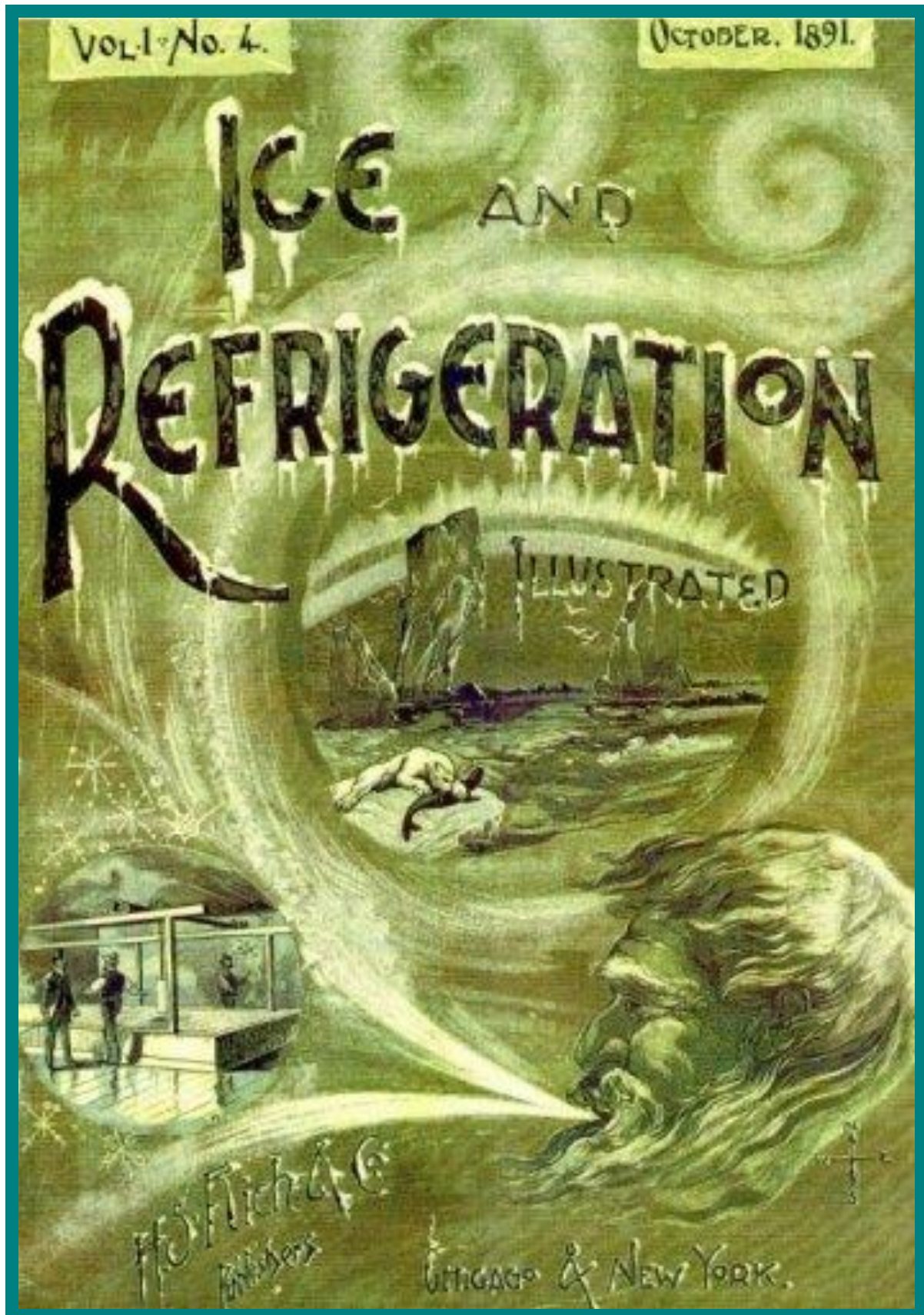
TO PASSAGE STOPS AT THE HIGH-
EST POINT. 100 POUNDS OF PRESSURE
TESTING PRESSURE.

OUR AIM

TRUTHS AN ACTUAL TEST OF 200
POUNDS ... BEST METAL

PRESSURE REGULATING AND BACK PRESSURE VALVES FOR UTILIZING EXHAUST STEAM FOR HEATING PURPOSES. T. KIELEY, 7-11 West Thirtieth Street, New York

ICE AND REFRIGERATION, CHICAGO



Trade Magazine 1891.

LUX COMPANY, RIGA, LATVIA

КЕРОСИНО-КАЛИЛЬНЫЕ
ФОНАРИ И ЛАМПЫ
„ЛЮКСЪ“

Акц. Общество
„ЛЮКСЪ“
РИГА
ДЕСЯТКИ ТЫСЯЧЪ
ФОНАРЕЙ
ВЪ УПОТРЕБЛЕНИИ

ТАВРИЧЕСКІЙ ДВОРЕЦЪ
ВЪ С. ПЕТЕРБУРГѢ.

ОСВѢЩАЕМЫЙ
ФОНАРЯМИ „ЛЮКСЪ“

„ЛЮКСЪ“
САМОЕ ДЕШЕВОЕ И
БЛЕСТЯЩЕЕ
ОСВѢЩЕНІЕ
ДЛЯ ВСЯКИХЪ
ДѢЛЕЙ.

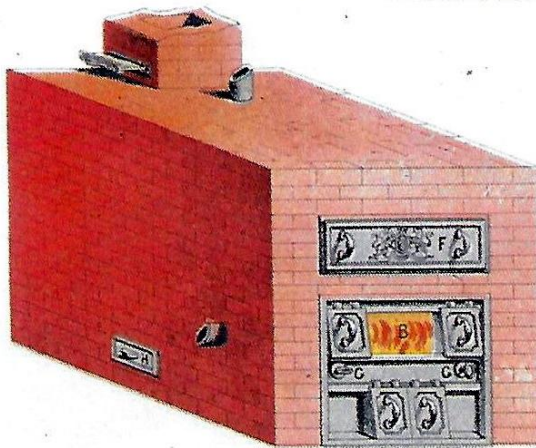
Kerosene burning street lamps Tauride Palace, St Petersburg late 1890s.
(*Quest for Comfort*, CIBSE Centenary 1997)

HARTLEY & SUGDEN, HALIFAX

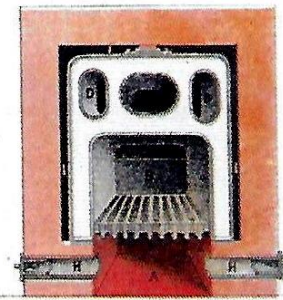
HARTLEY & SUGDEN'S
 IMPROVED WROUGHT WELDED SADDLE BOILER
 TO WHICH THE
GOLD MEDAL.
 WAS AWARDED AT THE
 ROYAL HORTICULTURAL SOCIETY'S SHOW,
 AT BIRMINGHAM, JUNE, 1872.



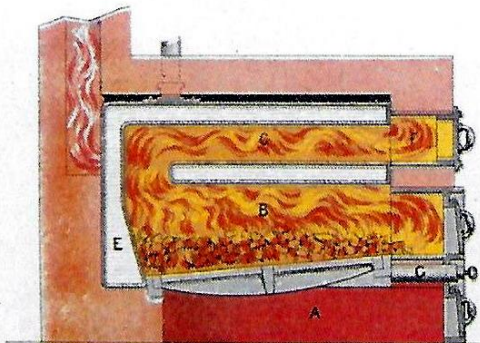
"GOLD MEDAL BOILER"
 REGISTERED TITLE



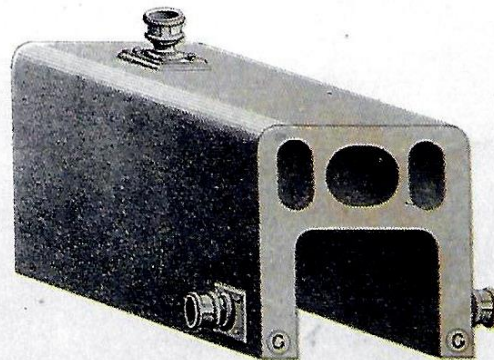
ELEVATION, IN BRICKWORK.



CROSS SECTION



LONGITUDINAL SECTION



ELEVATION, WITHOUT BRICKWORK.

- | | | |
|--|--|--|
| <p>A Ashes Pit
 B Fire
 C Centre Flue
 D Right & Left Return Flues
 E Water-way Terminal End</p> | <p>F Sliding Soot Door for Cleansing Flues, with Fire Brick Casing
 G Sludge Plugs for cleansing internal part of Boiler</p> | <p>H Regulating Flues
 I Hollow Space round Boiler utilizing Heat given off from external surface of Boiler.</p> |
|--|--|--|

ENTERED AT STATIONERS' HALL.

1872 Gold Medal wrought welded saddle boiler.
 (Quest for Comfort, CIBSE Centenary 1997)

BEC AUER POSTER, BRUSSELS



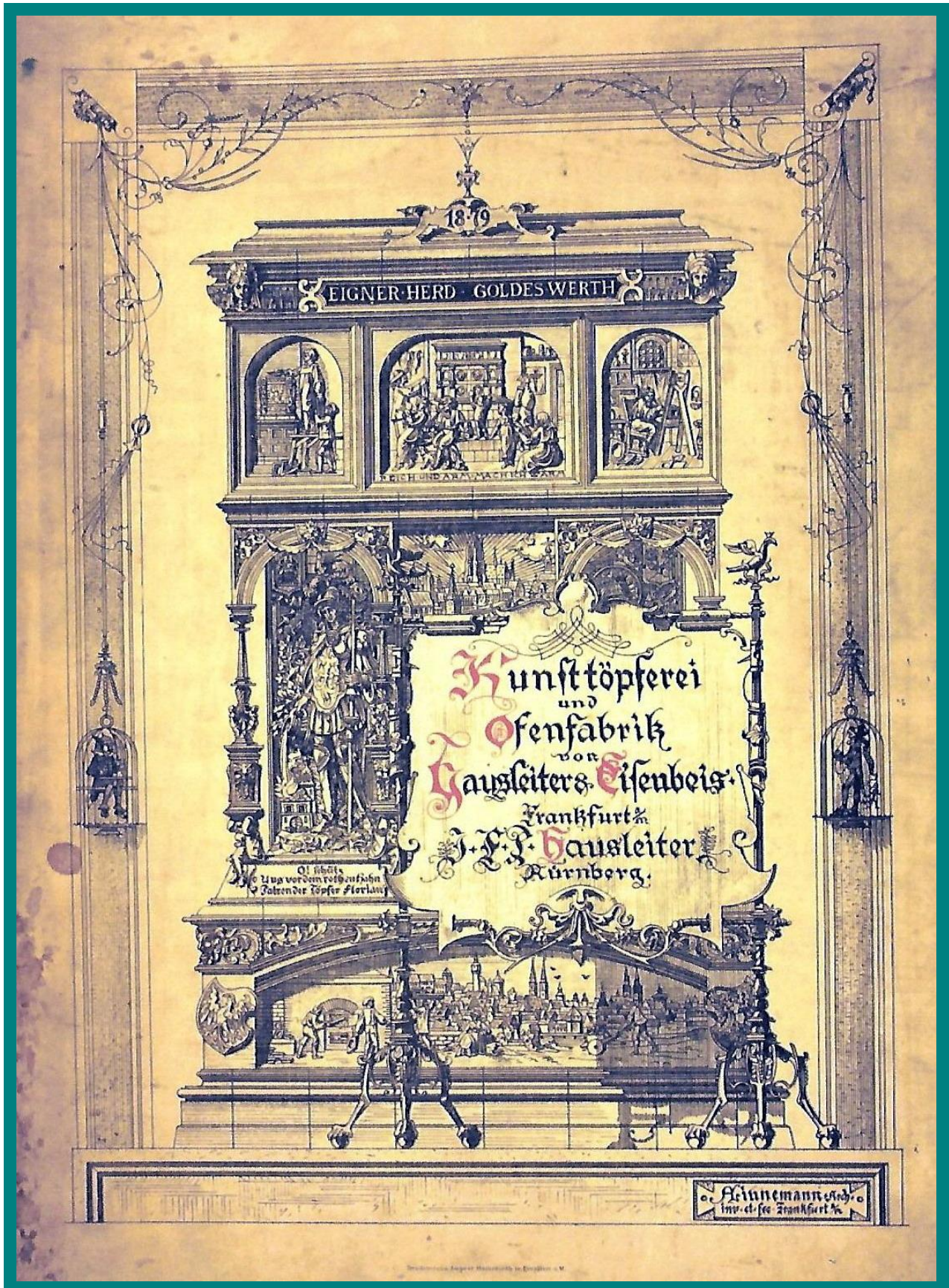
One of a series of artistic lighting lithographs 1896.

BEC AUER POSTER, ROME



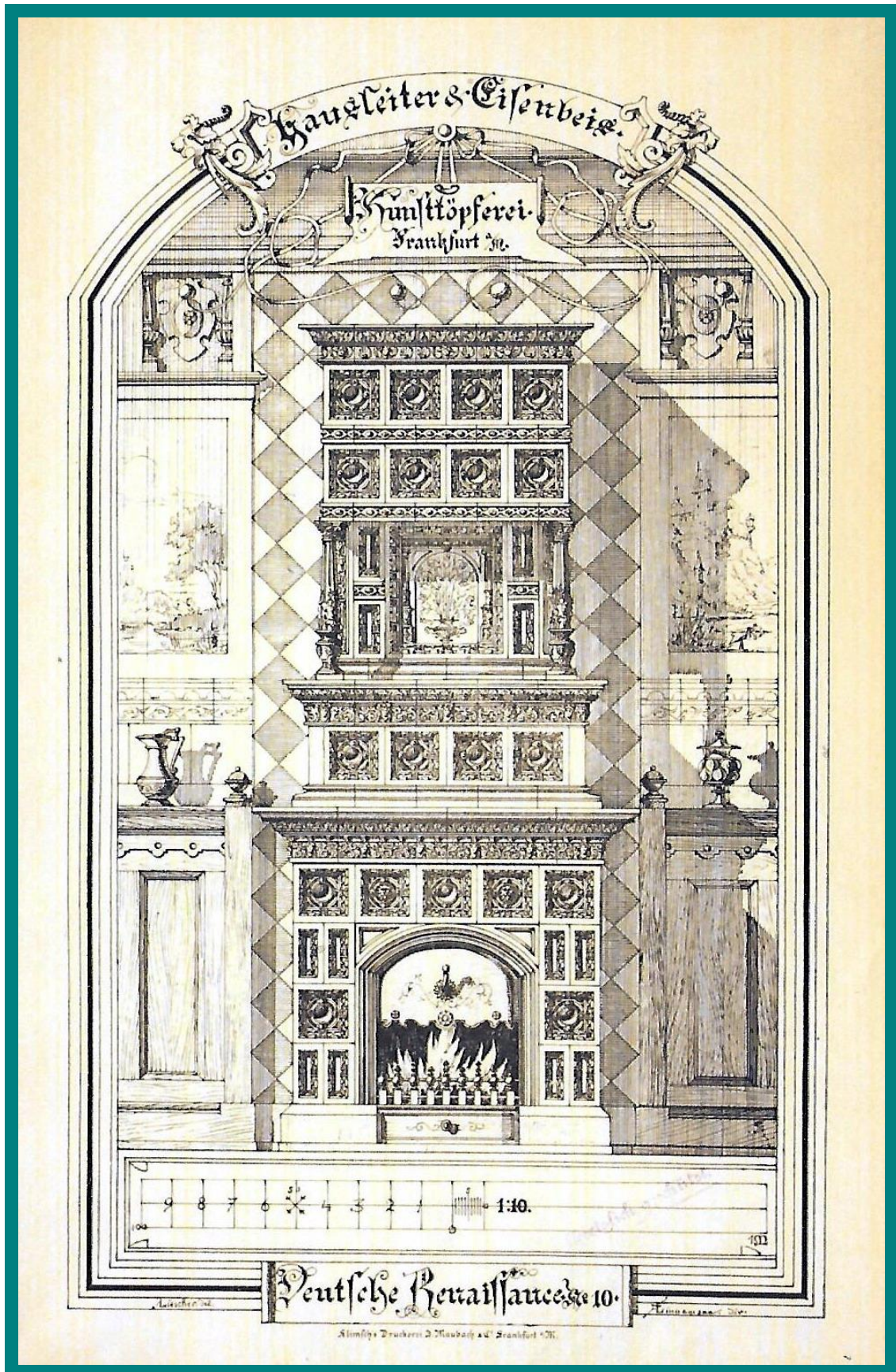
Another from of a series of artistic lighting lithographs 1896.

HAUSLEITER & EISENBIER, FRANKFURT

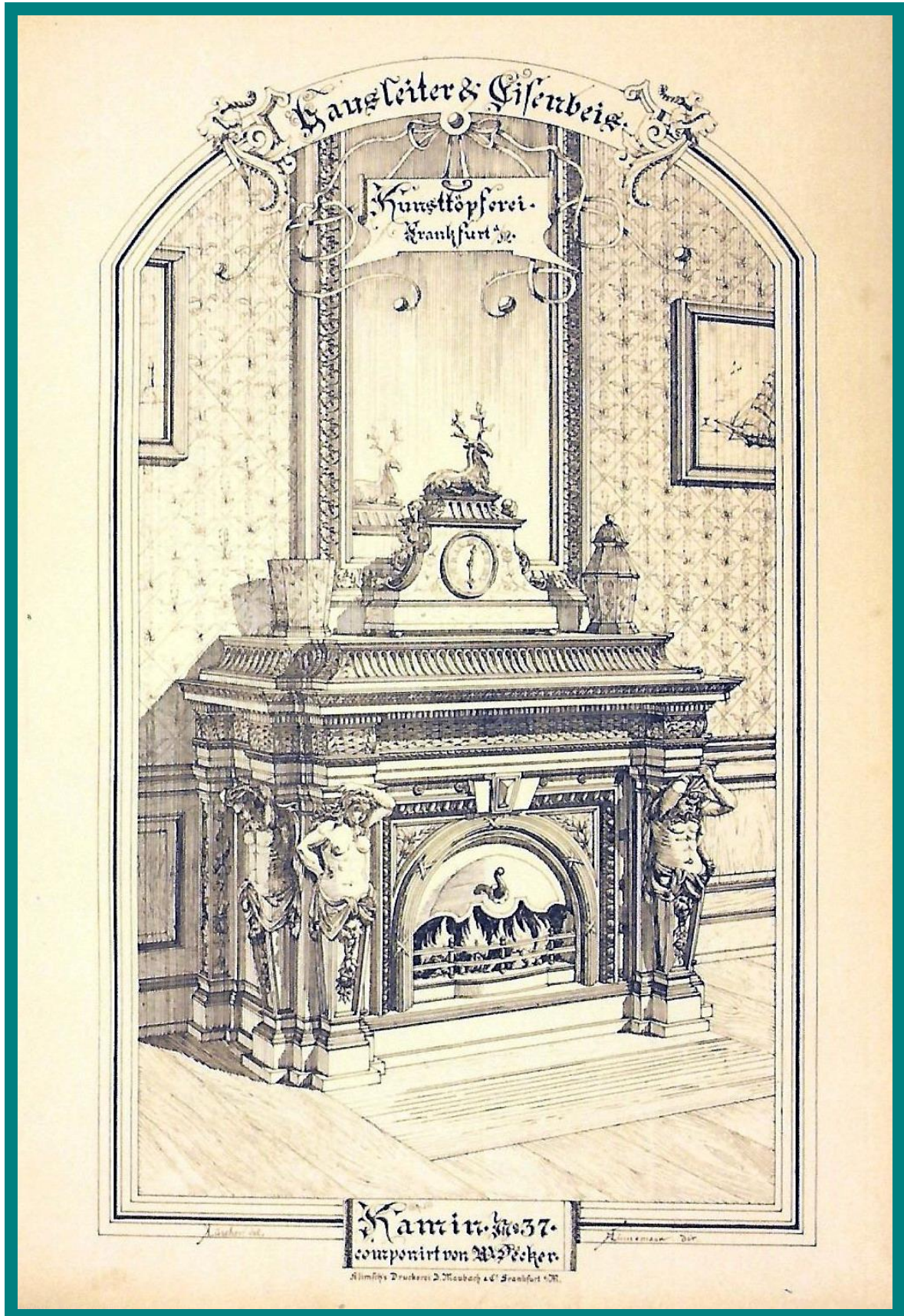


Large ornamental masonry-tiled heating stoves 1900.

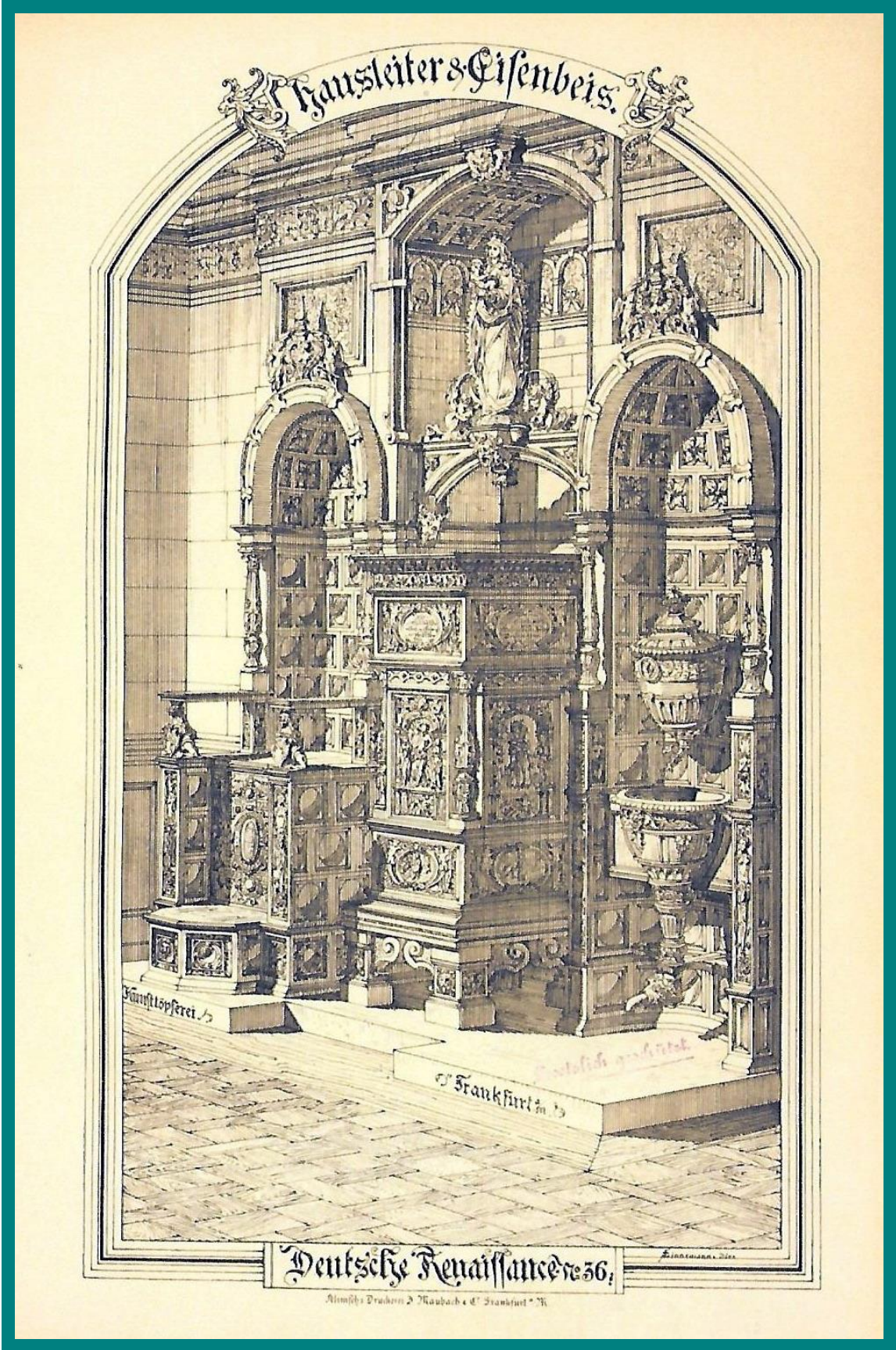
HAUSLEITER & EISENBERG, FRANKFURT



HAUSLEITER & EISENBERG, FRANKFURT



HAUSLEITER & EISENBEIS, FRANKFURT



DOMINION RADIATOR, TORONTO

The advertisement features two vertical panels of Art Deco illustrations. The left panel shows a woman in profile, seated and looking towards the left. She is wearing a patterned dress and a shawl. To her left is a radiator with a highly decorative, floral-patterned cover. The radiator cover has the words 'SAFFORD RADIATORS' written on it. The right panel shows a tall, slender vase with a decorative band around its middle. The vase is filled with a bouquet of flowers. The background of both panels consists of a grid of small, stylized floral motifs. The entire advertisement is framed by a thick green border.

SAFFORD RADIATORS

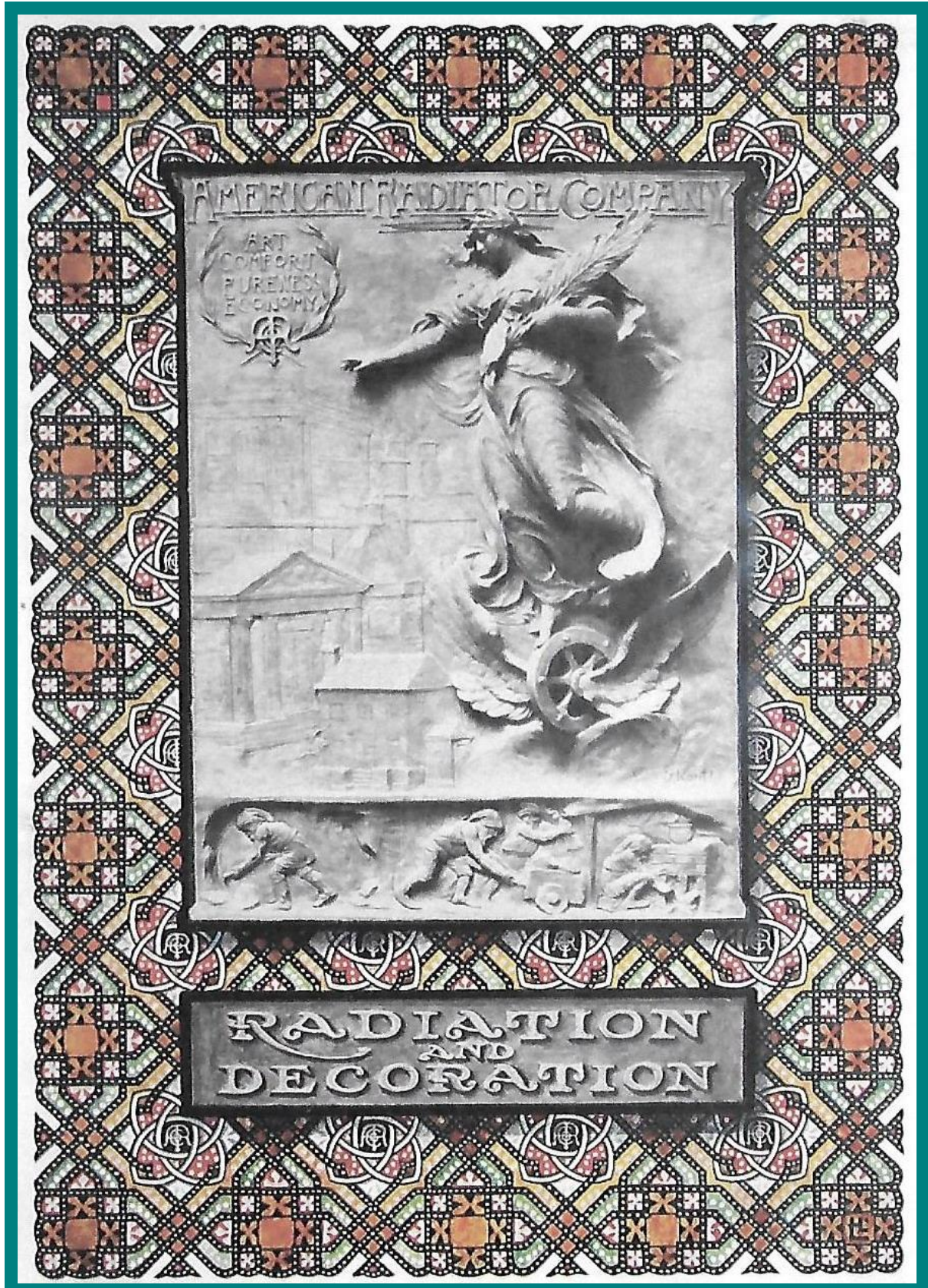
THE "DOMINION
RADIATOR
COMPANY, LIMITED
TORONTO
CANADA

DOMINION RADIATOR, TORONTO

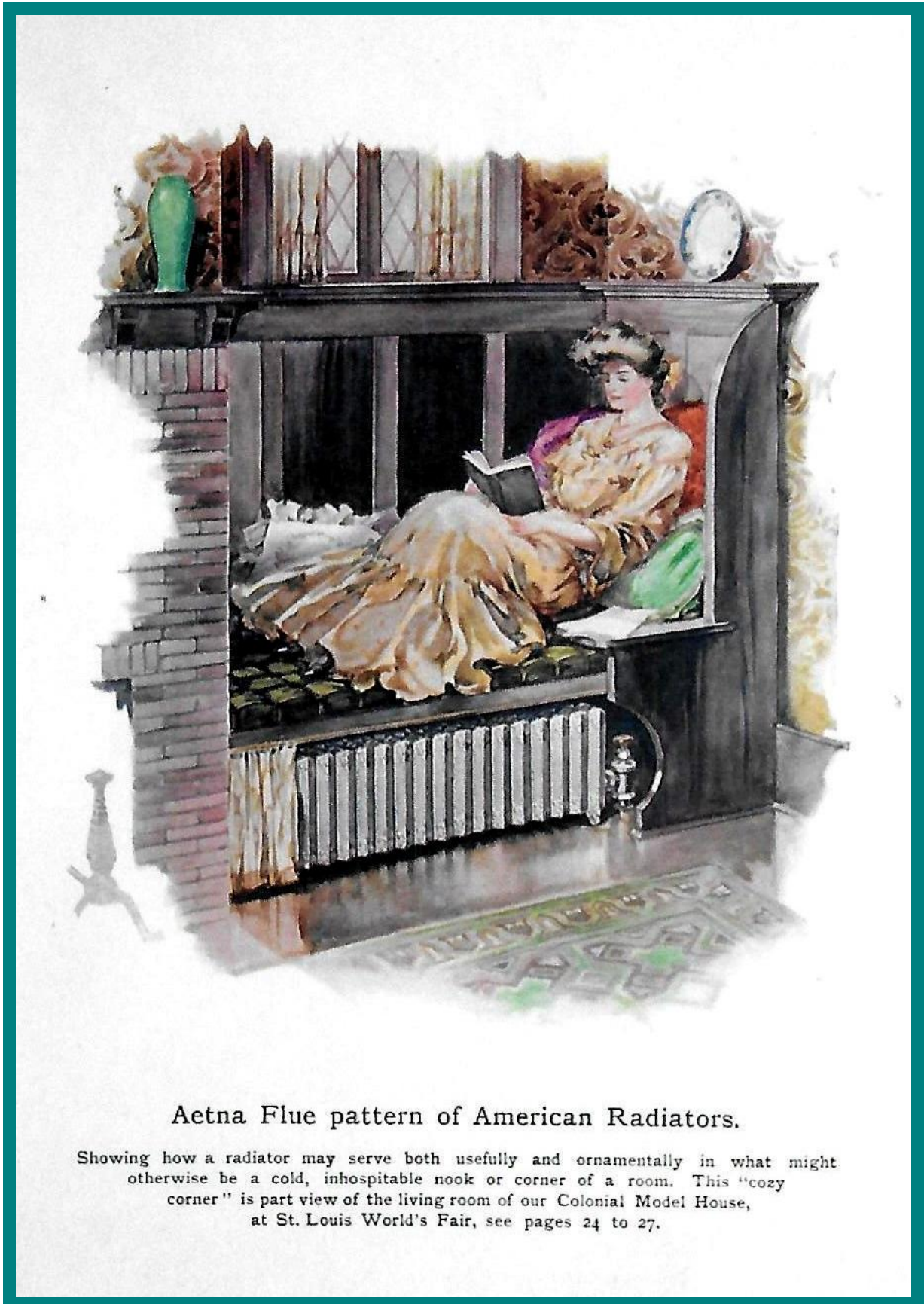


"SAFFORD" IDEAL RADIATOR

AMERICAN RADIATOR, NEW YORK



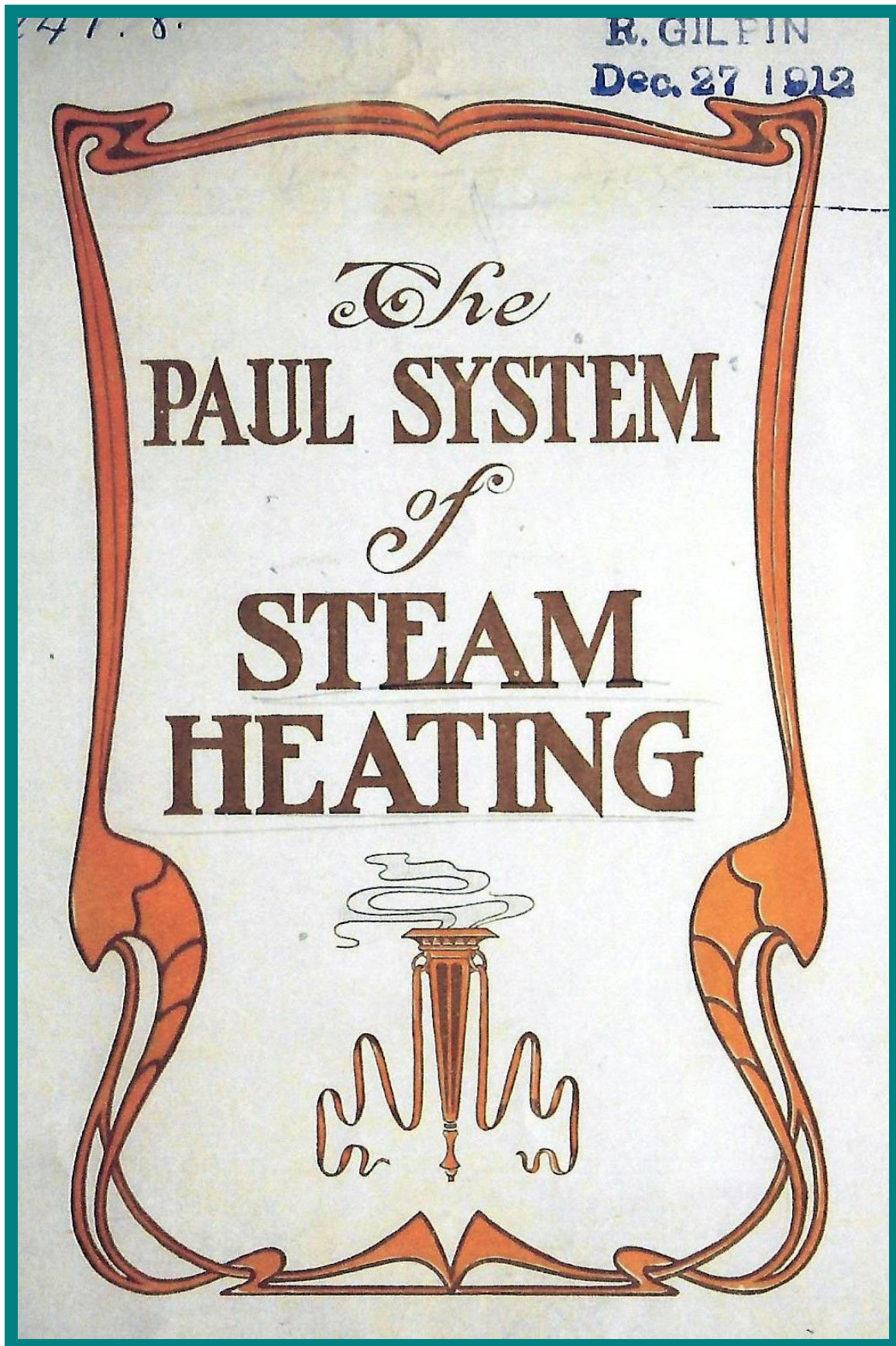
AMERICAN RADIATOR, NEW YORK



Aetna Flue pattern of American Radiators.

Showing how a radiator may serve both usefully and ornamentally in what might otherwise be a cold, inhospitable nook or corner of a room. This "cozy corner" is part view of the living room of our Colonial Model House, at St. Louis World's Fair, see pages 24 to 27.

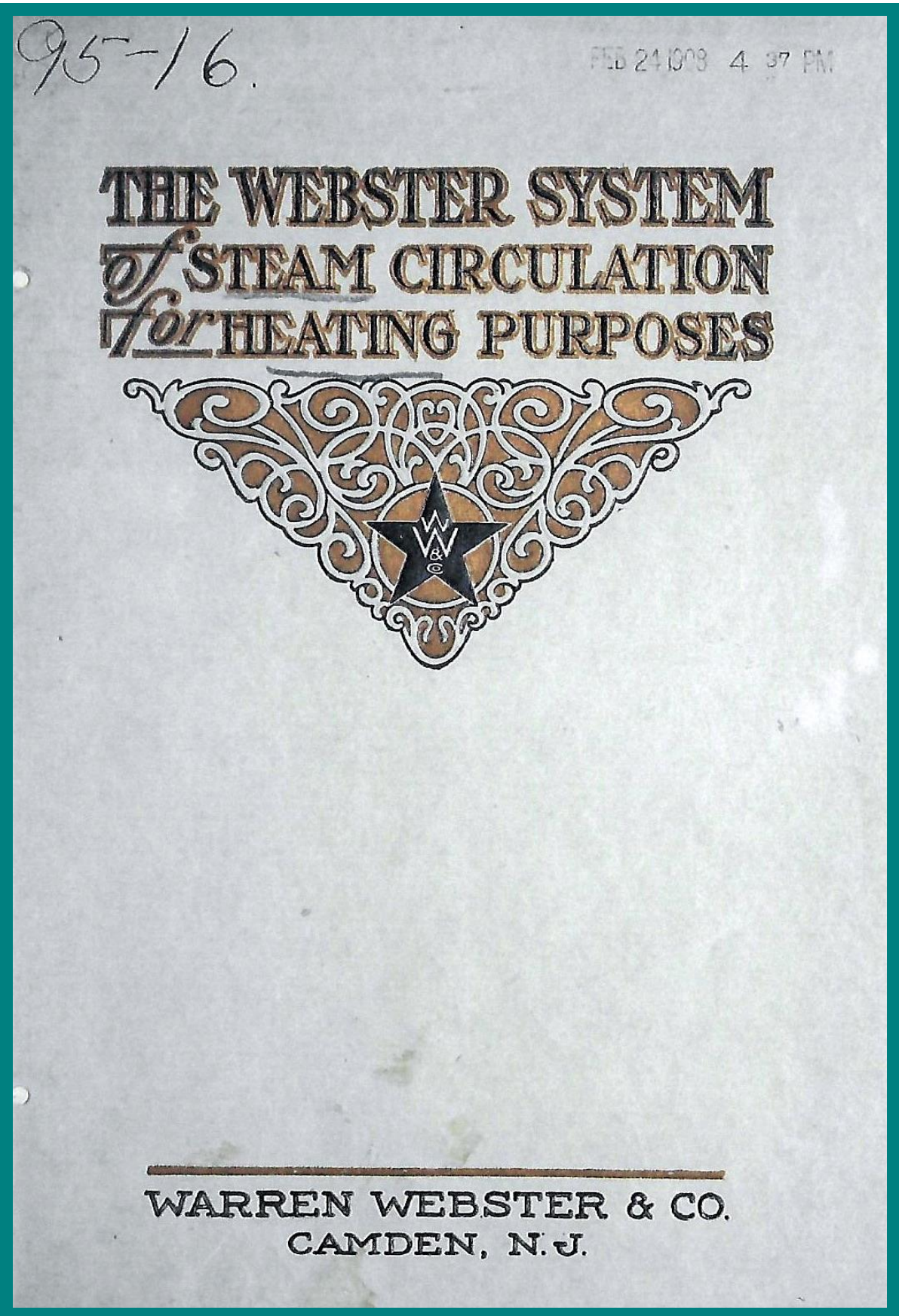
PAUL SYSTEM, NEW YORK



CENTRAL RADIATOR, PENNSYLVANIA



WARREN WEBSTER, NEW JERSEY

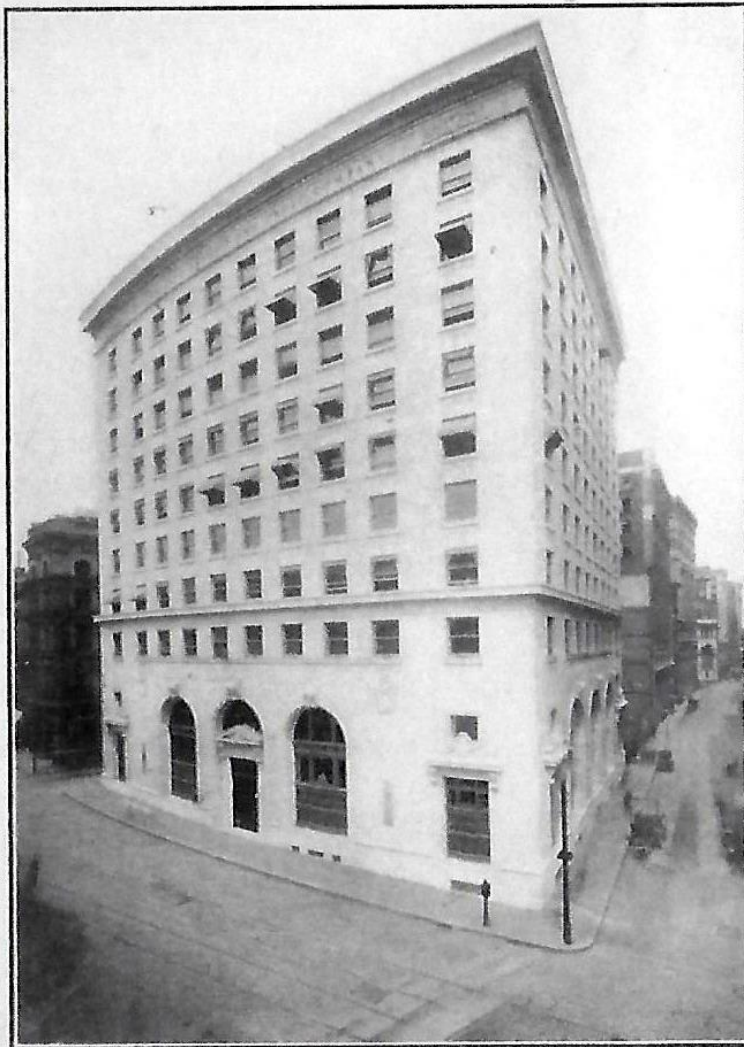


WARREN WEBSTER, NEW JERSEY

458-8.

WEBSTER MODULATION STEAM HEATING

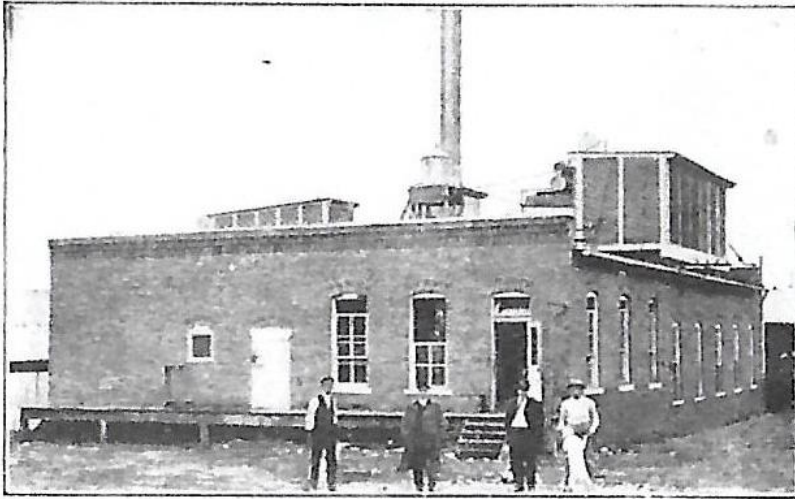
AND AIR WASHING SYSTEMS IN THE
BOSTON SAFE DEPOSIT AND
TRUST CO. BUILDING



WARREN WEBSTER & CO.
CAMDEN, NEW JERSEY

HENRY VOGT, KENTUCKY

MONEY MAKING MACHINERY

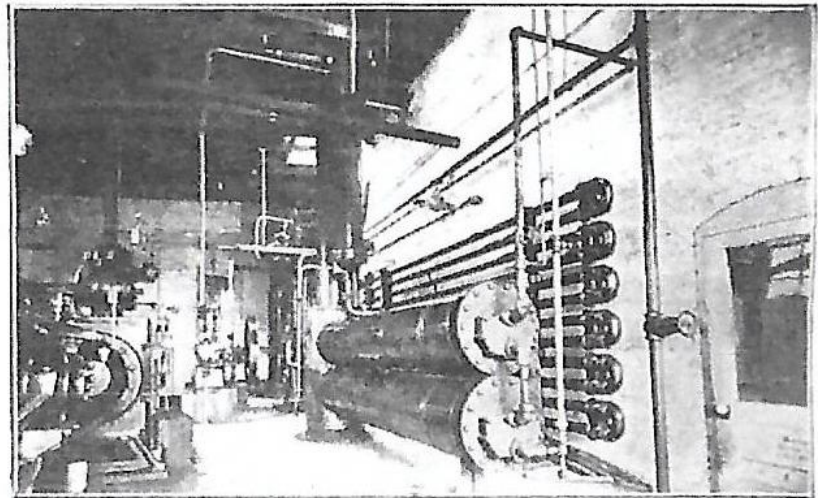


Plant of Lewisburg Light & Power Co., Lewisburg, Tenn.

Combine with your
Electric Machinery a
Vogt Absorption
Ice Making Machine
and
Use your Exhaust
Steam.

This is one of
a Lot of Combined
Plants.

Every One Making
Money since
adding Absorption
Machine.



The Vogt Machine takes Little Room.

Our Latest: Horizontal Tubular Brine Coolers and Condensers

HENRY VOGT MACHINE CO.

(INCORPORATED)

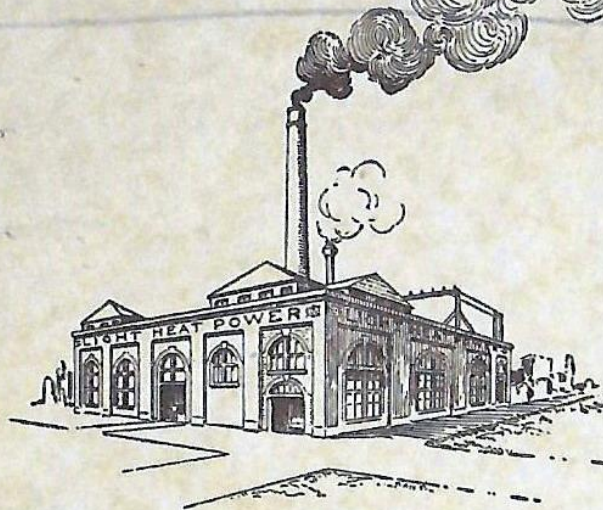
Louisville, Ky., U. S. A.

Vogt Water Tube Boilers
will make an Ideal Plant.

Write for Catalogues

AMERICAN DISTRICT STEAM, LOCKPORT

CENTRAL STATION HEATING



AMERICAN
DISTRICT
STEAM
COMPANY

MONITOR STOVE, CINCINNATI



AMERICAN RADIATOR, NEW YORK

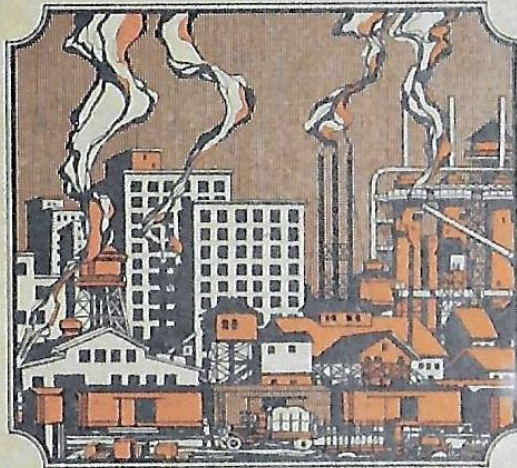


957 602 19 2nd

The
IDEAL ARCOLO
Radiator-Boiler

AMERICAN BLOWER, DETROIT

"A B C" EQUIPMENT FOR FACTORY HEATING AND VENTILATING

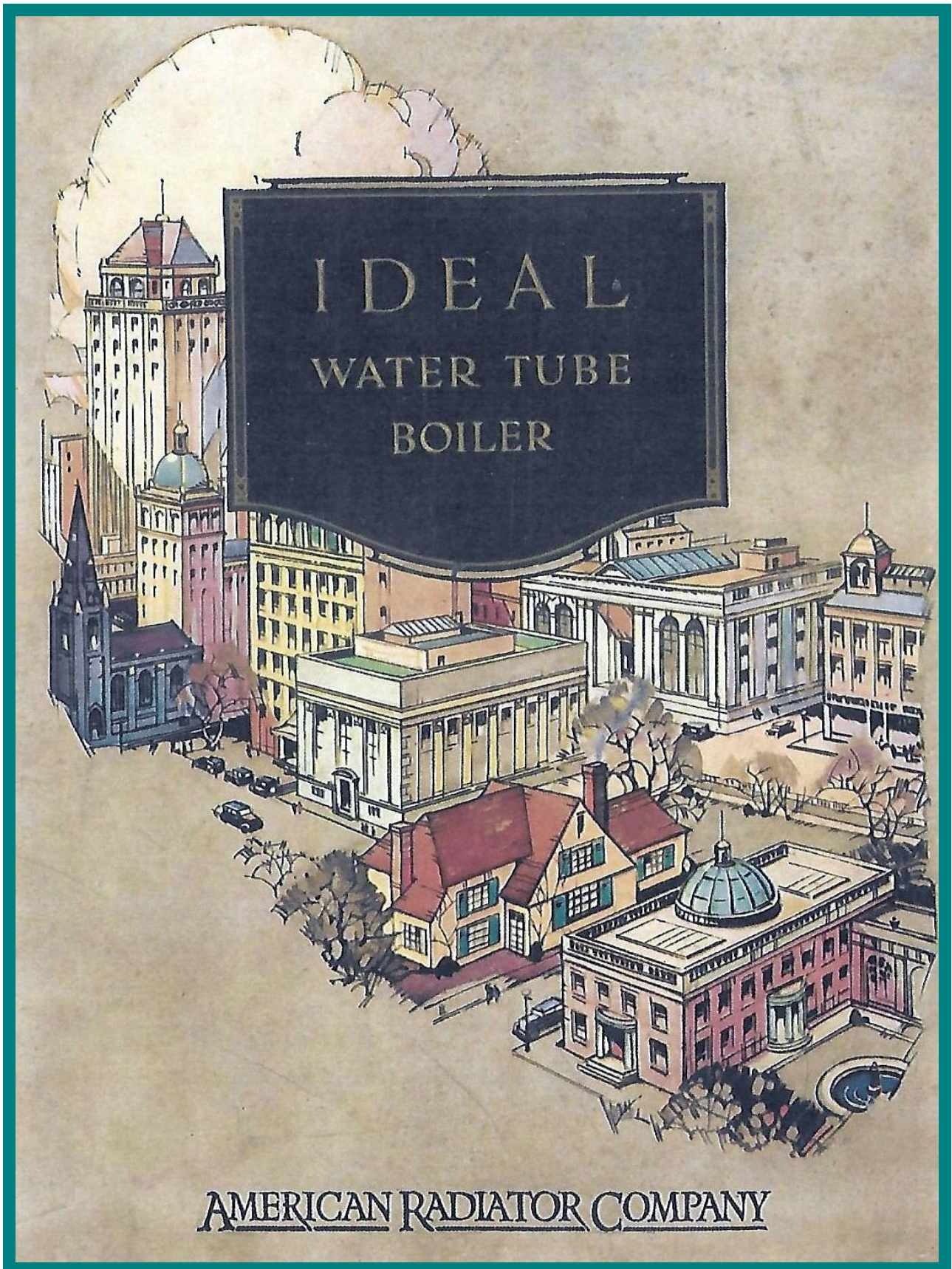


NO. 27 · SERIES. 5

AMERICAN BLOWER COMPANY

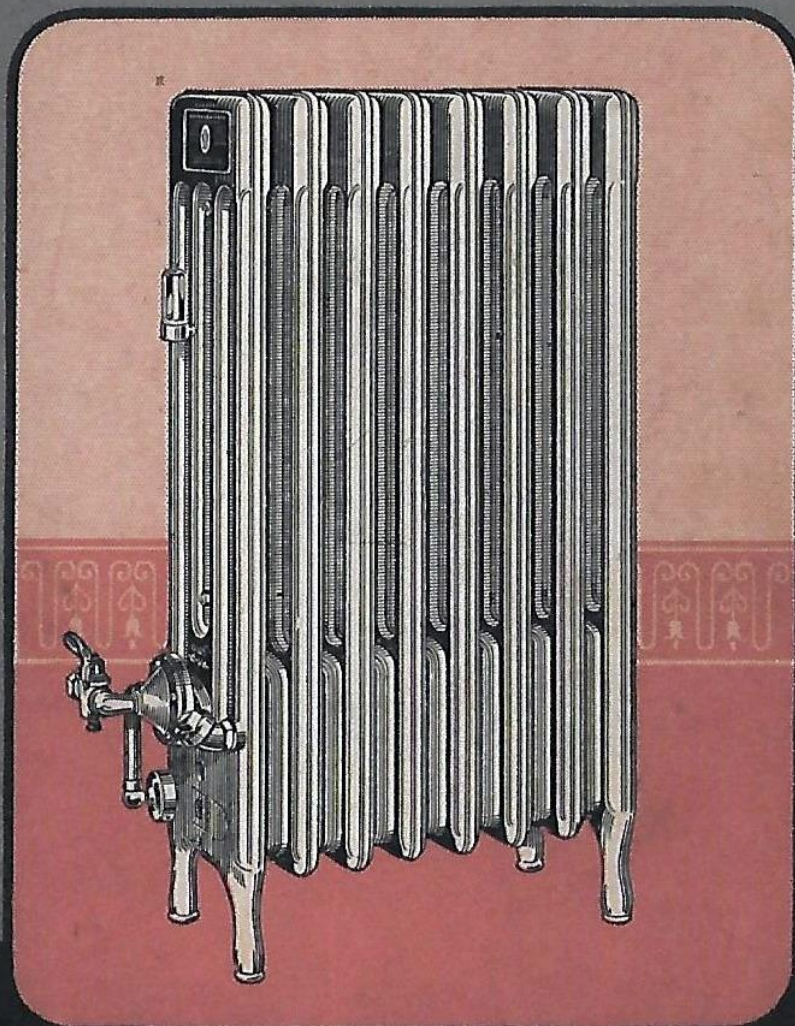
DETROIT, MICHIGAN

AMERICAN RADIATOR, NEW YORK



JAMES B. CLOW, CHICAGO

CLOW GASTEAM HEATING SYSTEMS



JAMES B. CLOW & SONS
CHICAGO